

2006 WSEC COMPLIANCE

1. HVAC EQUIPMENT SHALL HAVE MINIMUM PERFORMANCE AT SPECIFIED RATING CONDITIONS. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING SHALL BE THROUGH 14-16 AND 1411.1 OF THE WSEC, AND AS INDICATED ON THE CONTRACT DOCUMENTS.

2. PROVIDE DEADBAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF 5 DEGREES AS REQUIRED BY SECTION 1412.2 OF THE WSEC OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

3. HVAC SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROL S CAPABLE OF ACCUMULATING SETBACK OR SHUTDOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION 1412.4 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

4. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS REQUIRED BY SECTION 1412.7 OF THE WSEC AND AS INDICATED ON THE CONTRACT DOCUMENTS.

5. ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION 1414.1 OF THE WSEC. DUCT TAPE NOT ALLOWED. DUCTWORK STATIC PRESSURE AND SEAL CLASS:
WATER COLUMN
SEAL CLASS
1/8 TO 2 INCHES SEAL TRANSVERSE JOINTS
2 TO 3 INCHES SEAL TRANSVERSE JOINTS, LONGITUDINAL SEAMS ABOVE 3 INCHES AND DUCT WALL PENETRATIONS

6. ALL DUCTWORK SHALL BE INSULATED AS REQUIRED BY SECTION 1414.2 OF THE WSEC AND AS DESCRIBED IN SECTION 1508.3 OF THE PROJECT MANUAL.
DUCT TYPE LOCATION R-VALUE
SUPPLY/RETURN NOT WITHIN CONDITIONED SPACE R-7 (INCLUDE APPROVED WEATHERPROOF BARRIER)
SUPPLY/RETURN/ OUTSIDE AIR IN GROUND OR CONCRETE R-5.3
OUTSIDE AIR WITHIN CONDITIONED SPACE (NOT CONSIDERED PART OF ENVELOPE PENETRATION) R-5.3
SUPPLY WITHIN CONDITIONED SPACE R-3.3

7. ALL PIPING SHALL BE INSULATED AS REQUIRED BY SECTION 1415.1 OF THE WSEC AND AS DESCRIBED IN SECTION 1508.3 OF THE PROJECT MANUAL.
SYSTEM/TEMP (°F) INSULATION CONDUCTIVITY
PIPE DIAMETER:
S1" S1"-2" 2"-4" 4"-6" 6"-8"

8. INDIVIDUAL ZONE TERMINAL UNITS AND HVAC SYSTEMS SERVING PORTIONS OF THE BUILDING SHALL BE PROVIDED WITH AUTOMATIC CONTROL SEQUENCES. THE BUILDING OPERATING PERSON SHALL BE REQUIRED BY SECTION 1431.1 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

9. SUPPLY AIR AND WATER TEMPERATURES SHALL BE AUTOMATICALLY RESET AS REQUIRED BY SECTION 1432.1 AND 1432.2 OF THE WSEC OR AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

10. ALL AIR SYSTEMS SHALL BE PROVIDED WITH A 100% CAPABLE AIR ECONOMIZER. OUTSIDE AIR SHALL BE PROVIDED BY SECTION 1433.4 AND 1433 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

11. AIR AND WATER ECONOMIZERS SHALL BE CAPABLE OF PROVIDING PARTIAL LOAD OPERATION. AIR AND WATER ECONOMIZERS SHALL BE REQUIRED TO MEET THE REMAINDER OF THE COOLING LOAD AS REQUIRED IN SECTION 1413.3 OF THE WSEC.

12. WATER ECONOMIZERS SHALL BE CAPABLE OF PROVIDING THE TOTAL CONCURRENT COOLING LOAD SERVED BY THE CONNECTED TERMINAL EQUIPMENT LACKING AIRSIDE ECONOMIZER AS REQUIRED BY SECTION 1413.1, 1413.2 AND 1433 OF THE WSEC.

13. SIMULTANEOUS HEATING AND COOLING TO INDIVIDUAL ZONES SHALL BE PROVIDED BY SECTION 1433.5 OF THE WSEC. CONTROL SEQUENCES EXCEPT WHERE PERMITTED IN SECTION 1433, EXCEPTIONS 1 THROUGH 4 OF THE WSEC.

14. VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED FOR VARIABLE FLOW TEMPERATURE AND AIR FLOW. THE WSEC AND AS DESCRIBED IN THE CONTRACT DOCUMENTS INCLUDING TEMPERATURE CONTROL SEQUENCES.

15. ELECTRIC WATER HEATERS LOCATED IN UNCONDITIONED SPACES OR ON CONCRETE FLOORS SHALL BE SEPARATED FROM THE SUPPORTING SURFACE WITH R-10 INSULATION AS DESCRIBED IN SECTION 1441 OF THE WSEC.

16. DOMESTIC HOT WATER REGULATION PUMPS SHALL BE SHUT DOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION 1445 OF THE WSEC AND AS DESCRIBED IN THE TEMPERATURE CONTROL SEQUENCES.

17. MOTOR EFFICIENCY SHALL NOT BE LESS THAN THE MINIMUM CALCULOUS PER TABLE 14-4 AND SECTION 1437 OF THE WSEC FOR FULL LOAD EFFICIENCIES.

18. RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE AS REQUIRED BY SECTION 1416.1 OF THE WSEC. THE DRAWINGS SHALL INDICATE THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, GENERAL CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS, INCLUDING FLOW RATES AS A MINIMUM.

19. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION 1416.2 OF THE WSEC. AS A MINIMUM, THE MANUALS SHALL INCLUDE:
1. SUBMITTAL DATA
2. OPERATION AND MAINTENANCE DATA FOR EQUIPMENT.
3. NAMES AND ADDRESSES OF SERVICE AGENCIES.
4. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION.
5. NARRATIVE OF HOW SYSTEM IS INTENDED TO OPERATE.

20. HVAC SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION 1416.3 OF THE WSEC.

21. COMMISSIONING SHALL BE PROVIDED AND A REPORT OF COMMISSIONING BE SUBMITTED TO THE OWNER AS REQUIRED BY SECTION 1416.4 OF THE WSEC.

GENERAL NOTES

1. THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS, AND AS DESCRIBED IN SPECIFICATIONS.
2. INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE.
3. THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
4. ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.
5. COORDINATE WITH SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE STRINGENT SHALL APPLY.
6. PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
7. COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK OF THIS CONTRACTOR. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.
8. MECHANICAL EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION.
9. VERIFY EXISTING CONDITIONS BEFORE COMMENCING ANY WORK ON AN EXISTING MECHANICAL SYSTEM.
10. ALL DUCTWORK SIZES SHOWN ARE INSIDE CLEAR. ADD APPROPRIATE DIMENSION FOR INSULATION OR DUCT LINER TO OBTAIN TOTAL DUCT SIZE.
11. INSTALL COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS WHERE DUCTS PENETRATE FIRE RATED WALLS. DAMPERS AT ALL LOCATIONS WHERE DUCTS PENETRATE FIRE RATED WALLS SHALL BE 1-1/2 HOUR RATED. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE.
12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL DIFFUSERS AND GRILLES.
13. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 4'-0" WITH 0.5 x DUCT DIAMETER OFFSET, UNLESS NOTED OTHERWISE.
14. INACCESSIBLE CONCEALED DAMPER REGULATORS FOR ALL VOLUME DAMPERS OVER FOR CEILING TYPES. REFER TO ARCHITECTURAL DRAWINGS.
15. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT DUCTWORK TO AIR TERMINAL UNITS, FANS AND OTHER MECHANICAL EQUIPMENT.
16. PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE.
17. COORDINATE EXACT LOCATIONS OF ALL ROOM THERMOSTATS AND/OR ROOM THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.
18. PROVIDE A VOLUME DAMPER FOR EACH SUPPLY RETURN AND EXHAUST. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE. PROVIDE ACCESS TO THE DAMPERS FOR INSPECTION AND MAINTENANCE.
19. COORDINATE EXACT LOCATION AND ADJOINING HEIGHTS OF ALL PLUMBING FIXTURES WITH CASEWORK AND ARCHITECTURAL DRAWINGS.
20. PROVIDE VENT FROM ALL GAS PRESSURE REGULATORS TO A SAFE LOCATION OUTSIDE THE BUILDING.

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M1.67	SCHEDULES	M30.05	30TH FLOOR PLAN – NORTH – HVAC PIPING
M1.68	SCHEDULES	M30.15	30TH FLOOR PLAN – NORTH – HVAC PIPING
M1.69	SCHEDULES	M30.25	30TH FLOOR PLAN – NORTH – HVAC PIPING
M1.70	SCHEDULES	M30.35	30TH FLOOR PLAN – NORTH – HVAC PIPING
M1.71	SCHEDULES	M30.45	30TH FLOOR PLAN – NORTH – HVAC PIPING
M1.72	SCHEDULES	M30.55	30TH FLOOR PLAN – NORTH – HVAC PIPING
M1.73	SCHEDULES	M31.05	31TH FLOOR PLAN – NORTH – HVAC PIPING
M1.74	SCHEDULES	M31.15	31TH FLOOR PLAN – NORTH – HVAC PIPING
M1.75	SCHEDULES	M31.25	31TH FLOOR PLAN – NORTH – HVAC PIPING
M1.76	SCHEDULES	M31.35	31TH FLOOR PLAN – NORTH – HVAC PIPING
M1.77	SCHEDULES	M31.45	31TH FLOOR PLAN – NORTH – HVAC PIPING
M1.78	SCHEDULES	M31.55	31TH FLOOR PLAN – NORTH – HVAC PIPING
M1.79	SCHEDULES	M32.05	32TH FLOOR PLAN – NORTH – HVAC PIPING
M1.80	SCHEDULES	M32.15	32TH FLOOR PLAN – NORTH – HVAC PIPING
M1.81	SCHEDULES	M32.25	32TH FLOOR PLAN – NORTH – HVAC PIPING
M1.82	SCHEDULES	M32.35	32TH FLOOR PLAN – NORTH – HVAC PIPING
M1.83	SCHEDULES	M32.45	32TH FLOOR PLAN – NORTH – HVAC PIPING
M1.84	SCHEDULES	M32.55	32TH FLOOR PLAN – NORTH – HVAC PIPING
M1.85	SCHEDULES	M33.05	33TH FLOOR PLAN – NORTH – HVAC PIPING
M1.86	SCHEDULES	M33.15	33TH FLOOR PLAN – NORTH – HVAC PIPING
M1.87	SCHEDULES	M33.25	33TH FLOOR PLAN – NORTH – HVAC PIPING
M1.88	SCHEDULES	M33.35	33TH FLOOR PLAN – NORTH – HVAC PIPING
M1.89	SCHEDULES	M33.45	33TH FLOOR PLAN – NORTH – HVAC PIPING
M1.90	SCHEDULES	M33.55	33TH FLOOR PLAN – NORTH – HVAC PIPING
M1.91	SCHEDULES	M34.05	34TH FLOOR PLAN – NORTH – HVAC PIPING
M1.92	SCHEDULES	M34.15	34TH FLOOR PLAN – NORTH – HVAC PIPING
M1.93	SCHEDULES	M34.25	34TH FLOOR PLAN – NORTH – HVAC PIPING
M1.94	SCHEDULES	M34.35	34TH FLOOR PLAN – NORTH – HVAC PIPING
M1.95	SCHEDULES	M34.45	34TH FLOOR PLAN – NORTH – HVAC PIPING
M1.96	SCHEDULES	M34.55	34TH FLOOR PLAN – NORTH – HVAC PIPING
M1.97	SCHEDULES	M35.05	35TH FLOOR PLAN – NORTH – HVAC PIPING
M1.98	SCHEDULES	M35.15	35TH FLOOR PLAN – NORTH – HVAC PIPING
M1.99	SCHEDULES	M35.25	35TH FLOOR PLAN – NORTH – HVAC PIPING
M2.00	SCHEDULES	M35.35	35TH FLOOR PLAN – NORTH – HVAC PIPING
M2.01	SCHEDULES	M35.45	35TH FLOOR PLAN – NORTH – HVAC PIPING