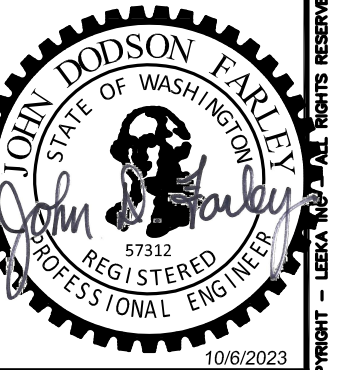
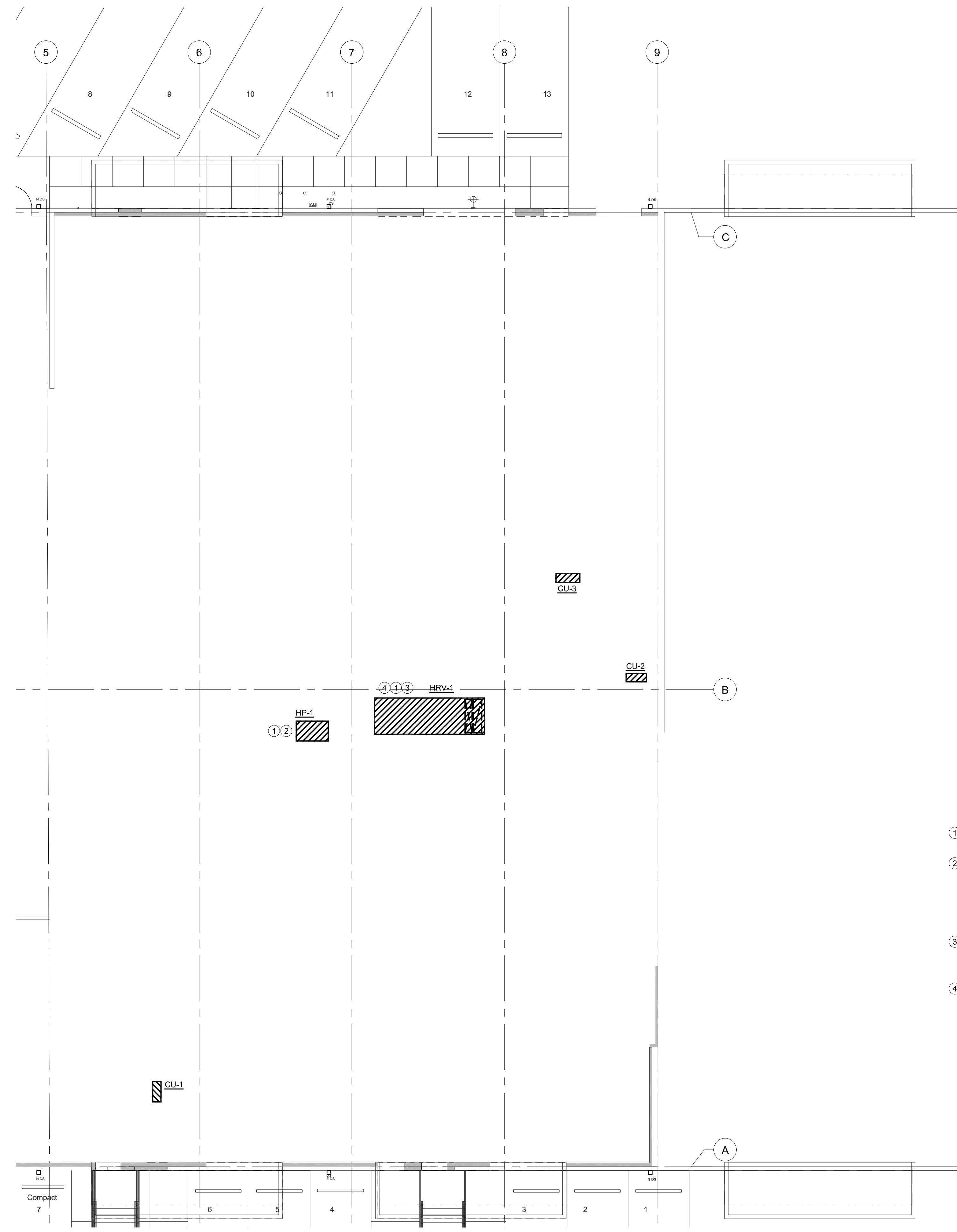


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4:07 pm, Oct 06, 2023



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GENERAL NOTES

REFERENCED CODES INCLUDE 2019 WASHINGTON MECHANICAL CODE AND 2019 WASHINGTON STATE ENERGY CODE.

WHERE EQUIPMENT AND COMPONENTS REQUIRING SERVICING ARE LOCATED WITHIN 10 FEET FROM THE ROOF EDGE, RAILINGS OR FALL ARREST/RESTRAINT ANCHORAGE CONNECTOR DEVICES SHALL BE PROVIDED.

MAINTAIN 10 FEET BETWEEN EXHAUST AND AIR INTAKE.

2018 WASHINGTON STATE ENERGY CODE INSULATION REQUIREMENTS FOR CLIMATE ZONE 4C TABLE C403.10.1.1 OUTDOOR AIR DUCTWORK INSULATION: SUPPLY AIR OR RETURN AIR OUTSIDE THE BUILDING EXPOSED TO WEATHER R-8; SUPPLY OR RETURN AIR DUCT IN UNCONDITIONED SPACE NOT IN THE BUILDING CONDITIONED ENVELOPE R-8; SUPPLY OR RETURN DUCT IN UNCONDITIONED SPACE WHERE THE DUCT CONVEYS AIR THAT IS WITHIN 15F OF THE AIR TEMPERATURE OF THE SURROUNDING UNCONDITIONED SPACE R-3.3; SUPPLY OR RETURN DUCT LOCATED IN THE BUILDING ENVELOPE ASSEMBLY R-16; SUPPLY DUCT WITHIN CONDITIONED SPACE THAT THE DUCT DIRECTLY SERVES WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS LESS THAN 55F OR GREATER THAN 105F NONE; SUPPLY DUCT WITHIN CONDITIONED SPACE WHERE THE SUPPLY DUCT CONVEYS AIR THAT IS 55F OR GREATER AND 105F OR LESS NONE; RETURN OR EXHAUST DUCT WITHIN CONDITIONED SPACE DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER R-8; RETURN OR EXHAUST DUCT WITHIN CONDITIONED SPACE, DOWNSTREAM OF AN ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTOMATIC SHUTOFF DAMPER R-12; RELIEF OR EXHAUST DUCT IN CONDITIONED SPACE AND DOWNSTREAM OF AN AUTOMATIC SHUTOFF DAMPER R-16.

WSEC REQUIRES AIR ECONOMIZERS ON ALL NEW COOLING SYSTEMS EXCEPT THOSE WITH DEDICATED OUTDOOR AIR SYSTEMS THAT INCLUDE ENERGY RECOVERY AND DON'T INCLUDE MECHANICAL COOLING.

WSEC REQUIRES DEDICATED OUTSIDE AIR SYSTEMS IN ALL OCCUPANCY B CLASSIFICATIONS NOT SPECIFICALLY EXEMPTED. THE DOAS SHALL INCLUDE ENERGY RECOVERY VENTILATION WITH 60 PERCENT MINIMUM SENSIBLE RECOVERY EFFECTIVENESS OR 50 PERCENT ENTHALPY RECOVERY EFFECTIVENESS. FOR DOAS HAVING A TOTAL FAN SYSTEM MOTOR NAMEPLATE HP LESS THAN 5 HP, TOTAL COMBINED FAN POWER SHALL NOT EXCEED 1 WCFM OF OUTDOOR AIR.

WSEC MINIMUM EFFICIENCY REQUIREMENTS FOR ELECTRICALLY OPERATED APPLIED HEAT PUMPS TABLE C403.3.2(2): AIR COOLED < 65,000 BTU/H SPLIT SYSTEM 14.0 SEER.

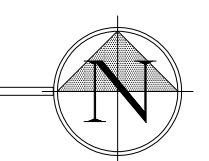
WSEC MINIMUM EFFICIENCY REQUIREMENTS FOR ELECTRICALLY OPERATED UNITARY AIR CONDITIONERS AND CONDENSING UNITS TABLE C403.3.2(1): AIR COOLED < 65,000 BTU/H SPLIT SYSTEM 13.0 SEER.

WSEC REQUIRES SYSTEMS SERVING OFFICES TO HAVE A TOTAL SYSTEM PERFORMANCE RATIO (TSPR) GREATER THAN OR EQUAL TO THE HVAC TSPR OF THE STANDARD REFERENCE DESIGN AS CALCULATED ACCORDING TO APPENDIX D, CALCULATION OF HVAC TOTAL SYSTEM PERFORMANCE RATIO. EXCEPTIONS INCLUDE BUILDINGS WITH CONDITIONED FLOOR AREA LESS THAN 5,000 SQUARE FEET AND HVAC SYSTEMS MEETING ALL THE REQUIREMENTS OF THE STANDARD REFERENCE DESIGN HVAC SYSTEM IN TABLE D602.11, STANDARD REFERENCE DESIGN HVAC SYSTEMS.

KEYED NOTES

- 1 PROVIDE SEISMIC SUPPORT FOR EQUIPMENT AS REQUIRED BY AHJ. REFERENCE STRUCTURAL ENGINEERING DRAWINGS AND SPECIFICATIONS.
- 2 PROVIDE VARIABLE REFRIGERANT VOLUME HEAT PUMP ON ROOF. MOUNT ON ROOF CURB. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING BETWEEN HEAT PUMP (HP) AND INDOOR FAN COILS UNITS. INSULATE ALL REFRIGERANT PIPING AS REQUIRED BY OREGON STATE ENERGY EFFICIENCY CODE AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE BRANCH CIRCUIT BOXES AS REQUIRED BY EQUIPMENT MANUFACTURER. REFERENCE EQUIPMENT SCHEDULES AND DETAILS.
- 3 PROVIDE HEAT RECOVERY VENTILATOR ON ROOF. MOUNT ON ROOF CURB. COORDINATE EQUIPMENT SIZE AND WEIGHT WITH STRUCTURAL ENGINEER. MAINTAIN ALL EQUIPMENT CLEARANCES AS RECOMMENDED BY THE MANUFACTURER. REFERENCE EQUIPMENT SCHEDULES AND DETAILS.
- 4 MAINTAIN 10 FEET MINIMUM DISTANCE BETWEEN ANY GENERAL EXHAUST AND THE OUTSIDE AIR INLET FOR HRV-1.

1 MECHANICAL ROOF PLAN NEW WORK
M2.11 Scale 1/8"=1'-0"



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