

MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



MECHANICAL GENERAL NOTES:

- MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER AND VOLTAGE REQUIREMENTS.
- THE MECHANICAL CONTRACTOR SHALL ACCURATELY COORDINATE THE SIZES AND LOCATION OF ALL DUCTWORK, PIPING AND EQUIPMENT WITH THE LOCATION OF LIGHTING FIXTURES, STRUCTURAL MEMBERS AND WORK OF ALL OTHER TRADES TO PREVENT CONFLICT. DUCTWORK CONFLICTING WITH LIGHTING FIXTURE LOCATIONS SHALL BE MOVED AT THIS CONTRACTOR'S EXPENSE.
- ALL DUCTWORK DIMENSIONS NOTED ON PLAN REFERS TO THE CLEAR INSIDE OPENING REQUIRED.
- ALL WALL, FLOOR AND ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE MECHANICAL SYSTEMS SHALL BE MADE BY THE MECHANICAL CONTRACTOR. ALL PATCHING IN RATED ASSEMBLIES TO MAINTAIN REQUIRED RATED SEPARATION.
- HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENT OF THE PIPING. HANGERS AND STRAPPING MATERIALS SHALL BE OF APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION.
- FLEXIBLE AIR DUCT SHALL BE TESTED IN ACCORDANCE WITH UL 181. FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET IN LENGTH.
- ALL DUCTWORK JOINTS SHALL BE SECURELY FASTENED AND SEALED WITH MASTICS.
- DUCTWORK SHALL BE SUPPORTED AT MAXIMUM 8 FEET ON CENTERS.
- REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL BALANCING DAMPERS AT BOTH THE DIFFUSER AND AT THE BRANCH DUCT.
- DUCT INSULATION SHALL HAVE FLAME INDEX OF 25 OR LESS AND SMOKE INDEX OF 50 OR LESS. EXTERNAL DUCT INSULATION FACTORY INSULATED FLEXIBLE DUCT SHALL HAVE IDENTIFIED THE MANUFACTURER, R-VALUE, FLAME AND SMOKE INDEX.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE, RULES & REGULATIONS OF THE APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTILES.
- QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ENGINEER PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- MECHANICAL CONTRACTOR TO PROVIDE TO THE OWNER A (1) ONE YEAR SERVICE PLAN SEPARATE FROM THE (1) ONE YEAR EQUIPMENT WARRANTY, ON ALL MECHANICAL HVAC EQUIPMENT, TO INCLUDE FURNACES, CONDENSING UNITS.
- MECHANICAL CONTRACTOR TO ENSURE A MINIMUM OF 10' CLEARANCE BETWEEN FRESH AIR INTAKES AND EXHAUST VENTS, PLUMBING VENTS AND GAS FLUES.

MECHANICAL CODED NOTES:

- MC TO EXTEND NEW SUPPLY AIR DUCTWORK AND CONNECT INTO EXISTING SUPPLY AIR DROP FROM LANDLORD PROVIDED UNIT. VERIFY EXACT LOCATION IN FIELD.
- MC TO EXTEND NEW RETURN AIR DUCTWORK AND CONNECT INTO EXISTING RETURN AIR DROP FROM LANDLORD PROVIDED UNIT. VERIFY EXACT LOCATION IN FIELD.
- EXISTING THERMOSTAT TO BE DISCONNECTED AND RELOCATED TO LOCATION SHOWN. IF EXISTING CONTROL WIRING IS FOUND TO BE DEFECTIVE OR INSUFFICIENT IN LENGTH, THE MECHANICAL CONTRACTOR TO PROVIDE NEW. VERIFY EXACT LOCATION OF EXISTING THERMOSTAT IN FIELD PRIOR TO START OF WORK.
- GENERAL CONTRACTOR UNDERCUT DOOR 1".
- ALL DUCTWORK AND DIFFUSERS THAT ARE CONFORMED TO BE PENETRATING SHIELDING PROTECTION FOR X-RAY ROOM SHALL BE PROVIDED WITH ADEQUATE MEANS OF PROTECTION PER REQUIREMENTS LISTED IN SHIELDING REPORT FOR THE ROOM, PROVIDED BY THE OWNER.
- 6"Ø EXHAUST DUCT EXTENDING UP THRU ROOF IN PRE-FAB INSULATED ROOF CURB TO EXHAUST CAP. FINAL EXHAUST CAP LOCATION SHALL PROVIDE MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
- MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR ALL ROOF AND WALL PENETRATIONS PRIOR TO INSTALLATION EQUIPMENT. SEAL ALL WALL AND ROOF PENETRATIONS AIR AND WATER TIGHT.
- MANUAL BALANCING DAMPER BY MECHANICAL CONTRACTOR (TYPICAL).
- INSULATED FLEXIBLE DUCT MAXIMUM LENGTH OF 5'-0" (TYPICAL).
- MECHANICAL CONTRACTOR TO ROUGH IN 4" DIAMETER SMOOTH INTERIOR FINISH ALUMINUM (MINIMUM .016" THICK) DRYER VENT FROM DRYER CONNECTION UP THROUGH WALL, DRYER VENT TO BE SUPPORTED AT 4' INTERVALS AND SECURED IN PLACE. DUCTS SHALL NOT BE JOINED WITH SCREWS OR SIMILAR FASTENERS THAT PROTRUDE INTO THE INSIDE OF THE DUCT. NOTE: MAXIMUM VERTICAL AND HORIZONTAL LENGTH SHALL NOT EXCEED 14' EQUIVALENT LENGTH, INCLUDING (2) 90° ELBOWS, 4" DIAMETER ALUMINUM DRYER VENT THRU ROOF WITH ROOF CAP. SEAL ROOF OPENING WEATHER TIGHT. NOTE: MAINTAIN MINIMUM 10 FEET FROM ANY INTAKES. PROVIDE TWO FANTOCH DRL-4 OR EQUAL UNIT TRAPS. PROVIDE FANTOCH DEDPV FAN TO ACCOMMODATE LINT TRAP. 120V/1PH. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR INTERLOCKING WITH DRYER OPERATION OR PROVIDING PRESSURE SENSOR TO CONTROL FAN.
- THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL DUCT MOUNTED SMOKE DETECTOR IN RETURN AIR DUCT OF THE EXISTING LANDLORD PROVIDED ROOFTOP UNITS (RTU-1, 12 & 13). THE EC TO FURNISH AND INSTALL ALL CONTROL WIRING AS REQUIRED TO INTERFACE SMOKE DETECTOR WITH HVAC UNIT AND ALARM SYSTEM. THE EC TO FURNISH AND INSTALL ALL POWER WIRING NEEDED. EC MAKE ALL FINAL CONTROL WIRING CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
- 10x8 EXHAUST DUCT UP THROUGH ROOF IN PRE-FABRICATED ROOF CURB TO EXHAUST FAN (EF-1, EF-2 & EF-3). TRANSITION AS NECESSARY TO MAKE CONNECTIONS TO FAN.
- 6"Ø EXHAUST DUCT EXTENDING UP THRU 1 HR RATED SHAFT THRU ROOF IN PRE-FAB INSULATED ROOF CURB TO EXHAUST CAP. FINAL EXHAUST CAP LOCATION SHALL PROVIDE MINIMUM 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
- NLINE EXHAUST FAN (EF-7) MOUNTED IN EXHAUST DUCT SERVING MEDICAL GAS ROOM. MOUNT WITH BRACKET PER MANUFACTURER'S RECOMMENDATIONS. EXTEND DUCT DOWN TO 12" A.F.F. AND LEAVE OPEN AT END.
- THERMOSTAT TO BE MOUNTED ON WALL AT 48" AFF.
- UNIT TO BE MOUNTED ON ROOF BASE RAILS BASED ON PATE. ENSURE UNITS ARE LEVEL AND SECURE.
- EXTEND NEW REFRIGERANT SUCTION AND LIQUID PIPING FROM NEW HEAT PUMP UNIT ON ROOF (HP-1 & 2) TO NEW WALL CASSETTE (FC-1 & 2). PROVIDE PATE BOOT OR APPROVED EQUAL PIPE ROOF PENETRATION CURB ASSEMBLY. REFER TO DETAIL ON SHEET M2.01 FOR ADDITIONAL INFO. SIZE AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATION. INSULATE PIPING WITH 1" BLACK ARMAFLEX INSULATION.
- WALL MOUNTED FAN COIL UNIT, MC TO INSTALL PER MANUFACTURER'S RECOMMENDATION AND GUIDELINES. ROUTE 1" CONDENSATE TO NEAREST FLOOR DRAIN AND TERMINATE W/ 2" AIR GAP. VERIFY EXACT LOCATION IN FIELD. IF NOT FLOOR DRAIN IS AVAILABLE, PROVIDE CONDENSATE PUMP AND DISCHARGE AT MOP SINK.
- TRANSFER AIR DUCT (SIZE AS NOTED) COMPLETE WITH 1" THICK ACOUSTIC LINING.
- INSTALL 1 HR RATED FIRE DAMPER WITH ACCESS DOOR AT DUCT PENETRATION OF 1 HR RATED ASSEMBLY. SEE DETAIL ON M2.01.
- EXISTING LANDLORD PROVIDED RTU TO REMAIN AND BE REUSED. BALANCE TO SUPPLY AND OUTSIDE AIR QUANTITY SHOWN ON PLAN.
- NEW DUCT HEATER TO BE MOUNTED IN SUPPLY DUCT OF RTU-12(E). DUCT HEATER IS TO SERVE AS A REHEAT COIL FOR ENHANCED DEHUMIDIFICATION CONTROL. DUCT HEATER TO BE WIRED AND CONTROLLED WITH T-STAT SERVING THIS RTU.
- INSTALL CEILING RADATION DAMPER AT DIFFUSER IN FIRE RATED CEILING. SEE DETAIL ON SHEET M2.01.



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DATE	ISSUANCE	CHECKED BY: NAM
07/19/2024	PERMIT SUBMITTAL	

**MECHANICAL PLAN**  
VETERINARY EMERGENCY GROUP  
1207 S 320TH STREET  
SUITE 2B  
FEDERAL WAY, WA 98003  
SCALE: As Indicated  
DRAWN: RL

SEAL/STAMP:



THE ARCHITECT ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE PLANS FOR ANY PROJECT OTHER THAN SPECIFICALLY AUTHORIZED BY THEM AND SIGNED AND SEALED FOR A SPECIFIC LOCATION IN THE STATE SHOWN ON THE SEAL. THIS BUILDING USE IS ONLY APPLICABLE IN AREAS MEETING THE LIMITED DESIGN CRITERIA.

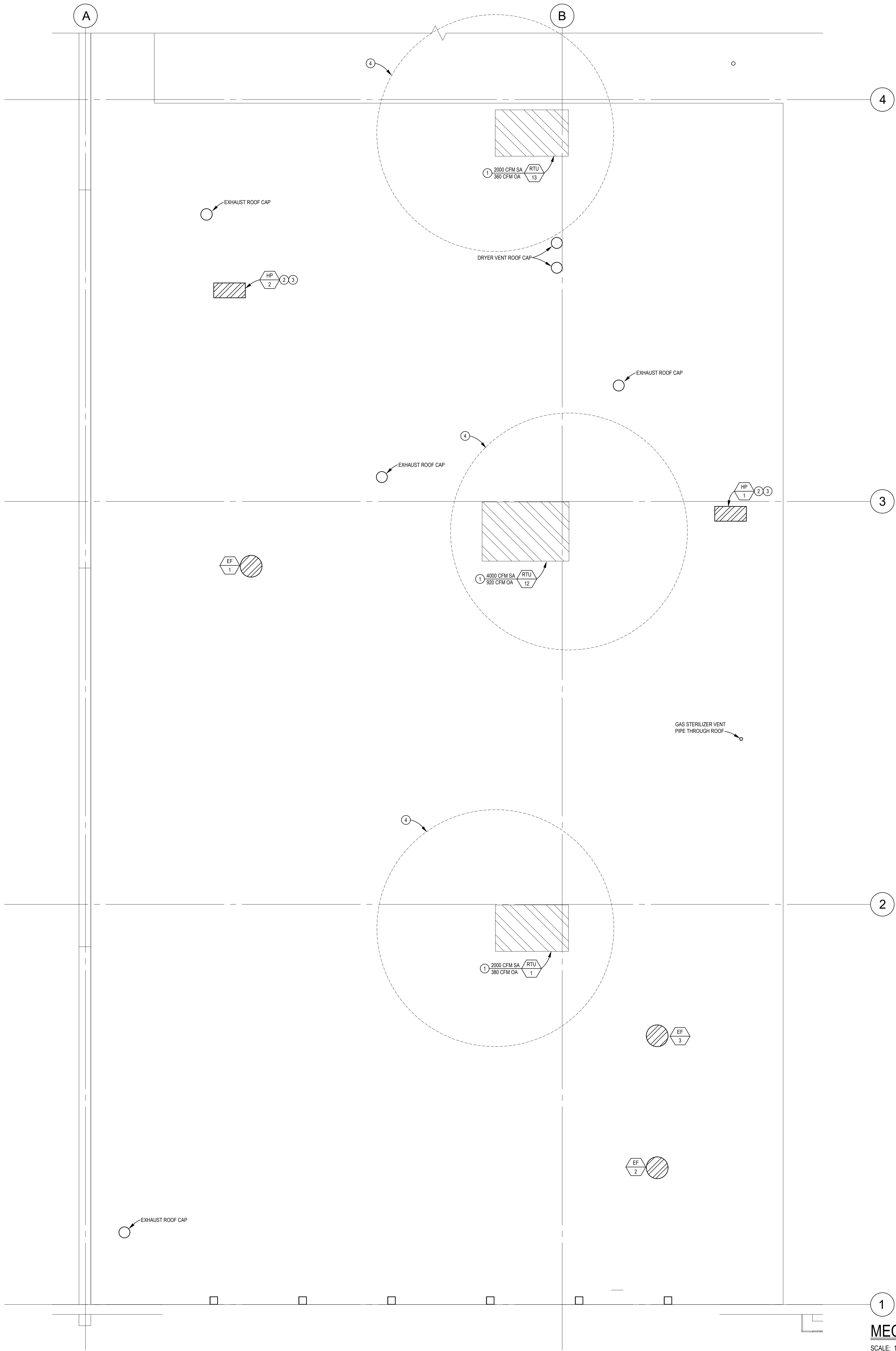
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SHEET

M1.00

SEE ARCHITECTURAL DETAILS FOR EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT, FIXTURES, OPENINGS AND OUTLETS. COMMUNICATE W/ ARCHITECT ANY DISCREPANCIES.





MECHANICAL CODED NOTES:

- EXISTING ROOFTOP UNIT TO REMAIN AND BE REUSED. BALANCE TO OUTSIDE AIR SHOWN ON PLAN.
- UNIT TO BE MOUNTED ON ROOF BASE RAILS BASED ON PATE. ENSURE UNITS ARE LEVEL AND SECURE.
- EXTEND NEW REFRIGERANT SUCTION AND LIQUID PIPING FROM NEW HEAT PUMP UNIT ON ROOF (HP-1 & 2) TO NEW WALL CASSETTE (FC-1 & 2). PROVIDE PATE OR APPROVED EQUAL PIPE ROOF PENETRATION CURB ASSEMBLY. REFER TO DETAIL ON SHEET M2.01 FOR ADDITIONAL INFO. SIZE AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATION. INSULATE PIPING WITH 1" BLACK ARMAFLEX INSULATION.
- NO PLUMBING VENTS, WATER HEATER FLUES, EXHAUST OUTLETS, ETC. ARE TO BE INSTALLED INSIDE OF 10'-0" RADIUS OUTSIDE AIR HOOD CLEARANCE CIRCLES SHOWN. IF THIS CANNOT BE OBTAINED THEN THE VENTS, FLUES OR OUTLETS SHALL BE 3'-0" HIGHER THAN ANY OUTSIDE AIR OPENING WITHIN THE 10'-0" RADIUS.



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DATE	ISSUANCE
07/19/2024	PERMIT SUBMITTAL

MECHANICAL PLAN - ROOF VETERINARY EMERGENCY GROUP 1207 S 320TH STREET SUITE 2B FEDERAL WAY, WA 98003	CHECKED BY: NAM
	DRAWN: 3L
SCALE: As Indicated	



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4049-24-004  
SHEET  
**M1.01**



VENTILATION AIR REQUIREMENT													REMARKS
HVAC UNIT	ZONE DESCRIPTION	ZONE FLOOR AREA (SQ. FT.) Az	AREA OUTDOOR AIR RATE (CFM/SQ. FT.) Ra	PEOPLE OUTDOOR AIR RATE (CFM/PERSON) Rp	ZONE POPULATION (# OF PEOPLE) Pz	BREATHING ZONE OUTDOOR AIR FLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	SYSTEM VENTILATION EFFICIENCY Ev	MINIMUM OUTDOOR AIR INTAKE FLOW (CFM) Vmi	DESIGN OUTDOOR AIR INTAKE FLOW (CFM)		
RTU-12	101 - Treatment	2497	0.18	7.5	20	599.46	0.8	749.325	1	749.325	776		
RTU-12	102 - Lab/Pharmacy	190	0.18	7.5	2	49.2	0.8	61.5	1	61.5	69		
RTU-12	103 - Pack/Prep	128	0.18	7.5	4	53.04	0.8	66.3	1	66.3	75		
TOTALS		2815			26	701.7		877.125		877.125	920		
RTU-13	100 - Vestibule	70	0.06	0	0	4.2	0.8	5.25	1	5.25	29		
RTU-13	104 - Isolation	124	0.18	7.5	2	37.32	0.8	46.65	1	46.65	48		
RTU-13	105 - Quiet Ward	99	0.18	7.5	2	32.82	0.8	41.025	1	41.025	42		
RTU-13	106 - X-Ray	80	0.06	5	1	9.8	0.8	12.25	1	12.25	33		
RTU-13	107 - Surgery	159	0.18	7.5	3	51.12	0.8	63.9	1	63.9	76		
RTU-13	108 - Restroom	77	0	0	0	70dmVature	0.8	70dmVature	1	70dmVature	10	Quantities shown are for exhaust. 70 cfm	
RTU-13	109 - Exam #1	94	0.06	5	2	15.64	0.8	19.55	1	19.55	33		
RTU-13	110 - Exam #2	94	0.06	5	2	15.64	0.8	19.55	1	19.55	33		
RTU-13	111 - Exam #3	94	0.12	7.5	2	26.28	0.8	32.85	1	32.85	38		
RTU-13	112 - Exam #4/RAD	99	0.12	7.5	2	26.88	0.8	33.6	1	33.6	38		
TOTALS		990			16	219.7		274.625		274.625	380		
RTU-1	113 - Exam #5/EUTH.	115	0.12	7.5	2	28.8	0.8	36	1	36	36		
RTU-1	114 - Small Mtg. Room	118	0.06	5	4	27.08	0.8	33.85	1	33.85	36		
RTU-1	115 - Restroom	97	0	0	0	70dmVature	0.8	70dmVature	1	70dmVature	10	Quantities shown are for exhaust. 70 cfm	
RTU-1	116 - Storage/Utility	611	0.06	5	2	46.66	0.8	58.325	1	58.325	108		
RTU-1	117 - Staff Breakroom	387	0.06	5	8	63.82	0.8	79.775	1	79.775	108		
RTU-1	119 - Med Gas	88	0.06	5	0	5.28	0.8	6.6	1	6.6	14		
RTU-1	120 - Hall	345	0.06	5	0	20.7	0.8	25.875	1	25.875	46		
TOTALS		1771			16	192.34		240.425		240.425	360		

ASHRAE 62.1-2010 ITEM 6.2.2.1 BREATHING ZONE OUTDOOR AIR FLOW (CFM) Vbz = RpPz+RaAz x 1.00

NOTES: VENTILATION RATES ARE BASED ON IMC 2021.

WHERE: Az = ZONE FLOOR AREA Pz = POPULATION Rp = TABLE 6.1 OUTDOOR AIR PER PERSON Ra = TABLE 6.1 OUTDOOR AIR PER AREA

DUCTWORK SCHEDULE				
DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	DUCT MATERIAL	INSULATION
CONCEALED SUPPLY AIR DUCTWORK	2" W.C.	A	GALVANIZED STEEL	2" DUCT WRAP
RETURN AIR DUCTWORK	1" W.C.	A	GALVANIZED STEEL	1" DUCT LINER
EXHAUST AIR DUCTWORK	1" W.C.	A	GALVANIZED STEEL	NONE
NOTE: 1. ALL DUCTWORK SIZES ARE AIRWAY DIMENSIONS 2. ALL DUCTWORK ROUTED IN ATTIC SPACE (OUTSIDE OF THERMAL ENVELOPE) SHALL BE INSULATED WITH A MINIMUM R-8 DUCT WRAP				

ISOLATION ROOM 104 VENTILATION (ASHRAE 170)	
REQUIREMENT:	-2 ACH OF OUTSIDE AIR FLOW -12 ACH OF TOTAL AIR FLOW
ROOM VOLUME:	124 SF x 9 FEET = 1,116 FT³
OUTSIDE AIR:	$2 \text{ ACH} = \frac{2(1116)}{60} = 37 \text{ CFM OA REQUIRED}$ → 48 CFM PROVIDED OF OA
TOTAL AIR:	$12 \text{ ACH} = \frac{12(1116)}{60} = 223 \text{ CFM OA REQUIRED}$ → 250 CFM PROVIDED

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SA	SUPPLY AIR	EC	ELECTRICAL CONTRACTOR
EA	EXHAUST AIR	PC	PLUMBING CONTRACTOR
CD	CEILING DIFFUSER	EF	EXHAUST FAN
OA	OUTSIDE AIR	FC	FAN COIL UNIT
RA	RETURN AIR	HP	HEAT PUMP UNIT
RG	RETURN GRILLE		FLEXIBLE DUCT (5'-0" MAX. LENGTH)
RTU	ROOFTOP UNIT		FLEXIBLE DUCT CONNECTOR
MC	MECHANICAL CONTRACTOR		DUCT W/ INTERNAL LINING
GC	GENERAL CONTRACTOR		MANUAL VOLUME DAMPER
	THERMOSTAT		CHANGE IN ELEVATION RISE (R) OR DROP (D)
TOD	TOP OF DUCT		ELBOW W/ DBL THICKNESS TURNING VANES
BOO	BOTTOM OF DUCT		FRESH/RETURN/EXHAUST AIR DUCT
(TYP)	TYPICAL		SUPPLY AIR DUCT
EDH	ELECTRIC DUCT HEATER		UNDERCUT DOOR

AIR BALANCE SCHEDULE				
HVAC UNIT	OUTSIDE AIR	EXHAUST AIR	POSITIVE OR NEGATIVE CFM	NOTES
RTU-1	380	-	-380 CFM	-
RTU-12	920	-	-920 CFM	-
RTU-13	360	-	-360 CFM	-
EF-1	-	260	-195 CFM	-
EF-2	-	475	-350 CFM	-
EF-3	-	300	-275 CFM	-
EF-4	-	70	-70 CFM	-
EF-5	-	70	-70 CFM	-
EF-6	-	50	-50 CFM	-
EF-7	-	100	-100 CFM	-
TOTAL	+1660	-1325	POS (+335 CFM)	

CABINET UNIT HEATER SCHEDULE					
TAG	MANUFACTURER & MODEL NUMBER	HEATING CAPACITY		VOLTAGE	AMPS
		WATTS	BTU/HR		
	QMARK AWH1	2000	6,824	208V, 3PH	7.0
WALL MOUNTED, INTEGRAL THERMOSTAT, COLOR TO BE WHITE					

ELECTRIC DUCT HEATER SCHEDULE									
TAG	MANUFACTURER & MODEL NUMBER	CFM	DUCT SIZE	STAGES	HEATING CAPACITY		REHEAT		REMARKS
					KW	BTU/HR	EAT	LAT	
	INDECO QJA	4000	24x20	2	18.0	61,418	96°F	70°F	208V 3 PH
NOTE: SHALL BE INDECO "OPEN COIL" ELECTRIC DUCT HEATER STANDARD SLIP-IN. SEE DRAWING FOR DUCT SIZE. 2 STEP OF CONTROL, 24V CONTROL CIRCUIT, CONTROL OPTION G WHICH INCLUDES THERMAL CUT-OUTS, FAN RELAY, DISCONNECTING CONTACTORS, CONTROL TRANSFORMER, AIR FLOW SWITCH, BUILT-IN, SNAP ACTING, DOOR INTERLOCKED DISCONNECT SWITCH (CONFORM TO NEC REQUIREMENTS), 80% NICKEL AND 20% CHROMIUM HEATING ELEMENT, TYPE "K" RESISTANCE WIRE, ALUMINIZED STEEL FRAME AND NEAT THERMAL BOXES, MANUAL RESET THERMAL CUT-OUTS, TERMINAL BLOCKS FOR FIELD WIRING, DUCT HEATER TO BE WIRED INTO RTU HONEYWELL VISIOMPRO TSTAT FOR REHEAT CONTROL FOR DEHUMIDIFICATION.									

LANDLORD PROVIDED ROOFTOP UNIT SCHEDULE - REFERENCE ONLY																							
TAG	MANUFACTURER & MODEL NUMBER	NOMINAL TONNAGE	CFM	ESP (IN.)	OUTDOOR AIR	COOLING CAPACITY			HEATING CAPACITY					ELECTRIC DATA				REMARKS					
						EAT DBWB	COOLING TC/SC (MBH)	AMB TEMP.	IEER	EER	HSPF	HEATING @ 47°F DB (MBH)	COP @ 47°F	HEATING @ 17°F DB (MBH)	COP @ 17°F	SIA FAN HP VOLTAGE	AUXILIARY HTR COIL KW		VOLTAGE	MCA	MOCP	WEIGHT	
RTU 1	TRANE WHC06H3	5.0	2000	0.8	380	80	61.1	49.1	95	-	13.0	9.0	57.0	3.6	34.4	2.3	1.5 HP 208V, 3PH	12.0	208V, 3PH	63	70	1200 LBS.	SEE NOTES 1 THRU 14 BELOW
RTU 12	TRANE WCH120H3	10.0	4000	0.8	920	80	123.6	96.3	95	15.5	11.5	8.2	118.0	3.6	61.0	2.25	2.75 HP 208V, 3PH	27.0	208V, 3PH	130	150	1600 LBS.	SEE NOTES 1 THRU 14 BELOW
RTU 13	TRANE WHC06H3	5.0	2000	0.8	360	80	61.1	49.1	95	-	13.0	9.0	57.0	3.6	34.4	2.3	1.5 HP 208V, 3PH	12.0	208V, 3PH	63	70	1200 LBS.	SEE NOTES 1 THRU 14 BELOW

DUCTLESS SPLIT SYSTEM UNIT SCHEDULE																	
TAG	AREA SERVED	MANUFACTURER & MODEL NUMBER		NOMINAL TONNAGE	CFM	SPEED	COOLING (MBH)	HEATING CAPACITIES				INDOOR UNIT WEIGHT LBS	OUTDOOR UNIT			SEER	WEIGHT LBS
		INDOOR UNIT	OUTDOOR UNIT					HIGH (47°F)	LOW (17°F)	COP (47°F)	COP (17°F)		VOLTAGE	MCA	MOCP		
	107 SURGERY	CARRIER 40MAH8Q12AA3	CARRIER 38MAH8Q12AA3	1.0	380	HIGH	12.0	12.0	8.2	14.0	2.29	10.0	23	208/230V 1 PHASE	15.0	15.0	25.5
	119 MED GAS	CARRIER 40MAH8Q18AA3	CARRIER 38MAH8Q18AA3	1.5	635	HIGH	18.0	18.0	4.35	11.37	2.22	9.6	28	208/230V 1 PHASE	16.0	25.0	21.5
FURNISH WITH THE FOLLOWING: FAN COIL UNIT: 1. SINGLE POINT POWER SOURCE CONTROL BOX 2. THREE-SPEED FAN MOTOR 3. WIRELESS THERMOSTAT 4. WASHABLE FILTER 5. AUTOMATIC AIR SWEEP AND MANUAL LOUVER CONTROL 6. WALL HUNG STYLE FAN COIL UNIT CONDENSING UNIT: 1. LOW AMBIENT TEMPERATURE CONTROLS DOWN TO 0°F 2. R-410A REFRIGERANT 3. DC INVERTER DRIVEN TWIN ROTARY 4. INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT THROUGH FIELD SUPPLIED INTERCONNECTED WIRING 5. WIND BAFFLE 6. SET ON EQUIPMENT RAILS																	
REMARKS: 1. REFRIGERANT PIPING SHALL BE SIZE AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. 2. INSULATE REFRIGERANT PIPING PER MANUFACTURERS INSTRUCTIONS WITH "F" ARMSTRONG ARMACELL INSULATION. 3. REVIEW EXTENDED LENGTHS, SIZE PER MANUFACTURERS INSTALLATION MANUAL COMPLETE WITH ALL NECESSARY COMPONENTS.																	

GRILLE, REGISTER AND DIFFUSER SCHEDULE											
TAG	MANUFACTURER & MODEL NUMBER	CFM	AIR PATTERN	NECK SIZE	FRAME STYLE	DAMPER	PANEL SIZE	MAXIMUM NC LEVEL	FINISH	MATERIAL	REMARKS
CD A	PRICE SCD	AS NOTED	AS SHOWN	AS NOTED	LAY-IN CEILING	OPPOSED BLADE	24x24	30	WHITE POWDER COAT	STEEL	
CD B	PRICE PDN	AS NOTED	AS SHOWN	AS NOTED	LAY-IN CEILING	OPPOSED BLADE	24x24	30	WHITE POWDER COAT	STEEL	
CD C	PRICE SCD	AS NOTED	AS SHOWN	AS NOTED	SURFACE MOUNTED	OPPOSED BLADE	24x24	30	WHITE POWDER COAT	STEEL	
CD D	PRICE PDN	AS NOTED	AS SHOWN	AS NOTED	LAY-IN CEILING	OPPOSED BLADE	24x24	30	BLACK	STEEL	
CD E	PRICE SCD	AS NOTED	AS SHOWN	AS NOTED	SURFACE MOUNTED	OPPOSED BLADE	12x12	30	WHITE POWDER COAT	STEEL	
RG A	PRICE PDOR	AS NOTED	RETURN	AS NOTED	LAY-IN CEILING	-	24x12	30	WHITE POWDER COAT	ALUMINUM	
RG B	PRICE PDOR	AS NOTED	RETURN	AS NOTED	SURFACE MOUNTED	-	24x12	30	WHITE POWDER COAT	ALUMINUM	
RG C	PRICE PDOR	AS NOTED	RETURN	AS NOTED	LAY-IN CEILING	-	24x24	30	BLACK POWDER COAT	ALUMINUM	
EG A	PRICE PDOR	AS NOTED	EXHAUST	AS NOTED	LAY-IN CEILING	-	24x22	30	WHITE POWDER COAT	ALUMINUM	
EG B	PRICE PDOR	AS NOTED	EXHAUST	AS NOTED	LAY-IN CEILING	-	24x24	30	BLACK POWDER COAT	ALUMINUM	
TG A	PRICE PDOR	AS NOTED	TRANSFER	AS NOTED	LAY-IN CEILING	-	24x12	30	WHITE POWDER COAT	ALUMINUM	
TG B	PRICE PDOR	AS NOTED	TRANSFER	AS NOTED	LAY-IN CEILING	-	24x12	30	BLACK POWDER COAT	ALUMINUM	
ALTERNATE MANUFACTURERS: TITUS, KRUEGER											

EXHAUST FAN SCHEDULE				
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