MECHANICAL GENERAL NOTES

A. THIS PROJECT WAS DESIGNED PER THE 2018 INTERNATIONAL MECHANICAL CODE AND ALL APPLICABLE LOCAL AMENDMENTS.

B. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE TESTING, ADJUSTMENT AND BALANCING. SEE SHEET F2.0 FOR BALANCING CONTRACTOR'S CONTACT INFORMATION.

C. ONCE POWER IS APPLIED TO THE ROOFTOP HVAC UNITS, AND THE HVAC TECHNICIAN HAS COMPLETED THE RTU STARTUP PROCEDURE, THE ROOFTOP UNITS WILL RUN IN A DEFAULT MODE FROM THE RETURN AIR SENSOR CONTROLLING A 74 DEGREE COOLING SETPOINT AND A 70 DEGREE HEATING SETPOINT WITH AN INTERMITTENT FAN.

D. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE ROUND OR RECTANGULAR/SQUARE AS SHOWN AND WHERE SPECIFIED. SUPPLY AND RETURN DUCT DUCT DROPS FROM THE RTU SHALL BE RECTANGULAR. HORIZONTAL SUPPLY AND RETURN TRUNK DUCTS AND BRANCHES CONCEALED ABOVE HUNG CEILINGS MAY BE ROUND. ALL ROUND ELBOWS SHALL BE LONG SWEEP ELBOWS. ALL RECTANGULAR/SQUARE ELBOWS SHALL HAVE TURNING VANES. INSTALL ALL DUCTWORK WITH THE MINIMUM NUMBER OF TURNS AND OFFSETS TO PERMIT MINIMUM STATIC PRESSURE RESISTANCE TO AIRFLOW. DUCTWORK INSTALLED WITH UNNECESSARY TURNS OR OFFSETS WILL BE CORRECTED AT NO COST TO PETSMART.

E. THE CONTRACTOR SHALL INSTALL THE SUPPLY DIFFUSER PACKAGE ON SALES FLOOR RTU'S SO THAT THE TOP OF THE DIFFUSER IS TIGHT TO THE BOTTOM OF THE ROOF STRUCTURE. SEE DETAIL ON SHEET M2.0.

F. DURING BIDDING, THE HVAC SUB CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL OFFICIALS AND DETERMINE IF THE NUMBER AND LOCATION OF SMOKE DETECTORS ARE IN COMPLIANCE WITH LOCAL CODES AND PRACTICES. IF THE NUMBER OR THE LOCATION OF THE SMOKE DETECTORS ARE NOT IN COMPLIANCE, THE HVAC SUBCONTRACTOR SHALL CONTACT THE TENANT FINISH ARCHITECT / ENGINEER IMMEDIATELY FOR DIRECTION. THE HVAC SUB CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE IN HIS BASE BID WORK THE COST TO REMOVE, RELOCATE, AND REWIRE THE SMOKE DETECTORS IN THE LOCATIONS AND ARRANGEMENTS ACCEPTABLE TO AND AS REQUIRED BY LOCAL CODES AND OFFICIALS.

G. THE HVAC CONTRACTOR SHALL ENSURE THAT NO SENSOR OR THERMOSTAT IS INSTALLED DIRECTLY IN THE PATH OF ANY SUPPLY AIR GRILLE OR DIFFUSER.

H. SUPPLY AND RETURN DROPS FROM THE RTU SHALL BE INSULATED WITH INTERNAL DUCT LINER PER THE SPECIFICATIONS. HORIZONTAL RECTANGULAR/SQUARE SUPPLY AND RETURN DUCTWORK EXPOSED TO THE CONDITIONED AREA SHALL BE INSULATED WITH INTERNAL DUCT LINER PER THE SPECIFICATIONS. ALL SUPPLY AND RETURN AIR DUCTWORK NOT EXPOSED TO THE CONDITIONED AREA (CONCEALED ABOVE HUNG CEILINGS) SHALL BE INSULATED WITH DUCT WRAP PER THE SPECIFICATIONS.

I. ALL ROOF TOP UNITS ARE SUPPLIED WITH RETURN AIR DUCT SMOKE DETECTORS. PROVIDE REMOTE TEST STATIONS AND COORDINATE INSTALLATION AND WIRING CONNECTIONS WITH THE ELECTRICAL CONTRACTOR AND THE FIRE ALARM CONTRACTOR AS REQUIRED.

J. CONSTRUCTION TRADES MUST USE THE ARCHITECTURAL PLANS FOR WORK INSTALLATION. THIS INCLUDES ALL APPLICABLE DETAILS, REFLECTED CEILING PLANS, AND INTERIOR ELEVATIONS.

K. REFER TO THE PLUMBING DRAWINGS FOR ALL CONDENSATE DRAIN AND GAS PIPING REQUIREMENTS.

ROOFTOP UNIT SCHEDULE

MARK	MODEL #	NOMINAL TONS	FAN DATA					COOLING DATA				HEATING DATA		ELECTRICAL DATA			EER / IEER / SEER	HUMIDITROL	WEIGHT (LBS.)	AREA SERVED
			S.A. CFM	MIN. O.A. CFM	TOTAL S.P.	H.P.	DRIVE KIT	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	ENTERING DB / WB	AMBIENT	GAS HTG. INPUT (MBH)	GAS HTG. OUTPUT (MBH)	VOLTAGE / PHASE / Hz	MCA	MOCP				
RTU-1	LGT072H5EQ1G	6	2300	575	0.76	1.5	MSAV	69.1 / 72.6	50.1 / 53.5	80.0 / 67.0	95.0	81.0 / 108.0	66.0 / 87.0	460 / 3 / 60	15.0	20	12.2 / 17.0 / -	NO	900	OFFICES / VESTIBULE
RTU-2	LGT048H5EB1G	4	1600	400	0.70	1.0	ECM	47.7 / 50.4	34.5 / 37.2	80.0 / 67.0	95.0	53.0 / 65.0	43.0 / 52.0	460 / 3 / 60	13.0	15	12.8 / - / 17.0	YES	857	SALON
RTU-3	LGT060H5EB1G	5	1850	460	0.79	1.5	MSAV	59.7 / 63.8	45.4 / 49.5	80.0 / 67.0	95.0	53.0 / 65.0	43.0 / 52.0	460 / 3 / 60	14.0	15	12.7 / - / 17.0	YES	858	BATHING / DRYING / RESTROOMS
RTU-4	LGT120H5EM1G	10	4200	1050	1.06	3.75	ECM	114.1 /121.9	81.2 / 89.0	80.0 / 67.0	95.0	117.0 / 180.0	95.0 / 146.0	460 / 3 / 60	25.0	30	12.1 / 15.5 / -	YES	1406	SALES AREA FRONT
RTU-5	LGT060H5EQ1G	5	2150	535	0.68	1.0	ECM	59.7 / 63.8	45.4 / 49.5	80.0 / 67.0	95.0	81.0 / 108.0	66.0 / 87.0	460 / 3 / 60	14.0	15	12.7 / - / 17.0	NO	831	FISH / ADOPTIONS / HOLDING
RTU-6	LGT120H5EM1G	10	4200	1050	1.01	3.75	ECM	114.1 / 121.9	81.2 / 89.0	80.0 / 67.0	95.0	117.0 / 180.0	95.0 / 146.0	460 / 3 / 60	25.0	30	12.1 / 15.5 / -	NO	1386	SALES AREA LEFT REAR
RTU-7	LGT120H5EM1G	10	4200	1050	1.01	3.75	ECM	114.1 / 121.9	81.2 / 89.0	80.0 / 67.0	95.0	117.0 / 180.0	95.0 / 146.0	460 / 3 / 60	25.0	30	12.1 / 15.5 / -	NO	1386	SALES AREA RIGHT REAR
RTU-8	LGT072H5EQ1G	6	2400	600	0.73	1.5	MSAV	69.2 / 73.2	50.9 / 54.9	80.0 / 67.0	95.0	81.0 / 108.0	66.0 / 87.0	460 / 3 / 60	15.0	20	12.2 / 17.0 / -	NO	850	RECEIVING
RTU-9	LGT072H5EQ1G	6	2375	590	0.73	1.5	MSAV	69.2 / 73.2	50.9 / 54.9	80.0 / 67.0	95.0	81.0 / 108.0	66.0 / 87.0	460 / 3 / 60	15.0	20	12.2 / 17.0 / -	NO	850	VET
TOTAL			6,310					-5,350 EXHAUST AIR = +950												

- **EQUIPMENT PROVIDED BY LENNOX NATIONAL ACCOUNTS, NO SUBSTITUTES ALLOWED. CONTACT LENNOX NATIONAL ACCOUNTS FOR PRICING OR SEE SHEET F2.0 FOR ADDITIONAL INFORMATION: JANE GUNTER PHONE: 1-972-497-6869 OR CONTACT ADRIAN SOSA PHONE: 1-949-439-7847, TECHNICAL SUPPORT: 1-800-367-6285, APPLICATION SUPPORT: 1-888-595-4962.**
- ALL RTU'S SHALL BE FURNISHED WITH FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
- FIELD ADJUST FAN RPM TO PROVIDE AIR QUANTITIES AS SCHEDULED ABOVE.
- LENNOX WILL FURNISH CURBS PLUS DLPD 2010-10/12.5 DIFFUSER ASSEMBLY FOR RTU-4, 6, AND 7 AND CURBS PLUS DLPD 1806-5/6 DIFFUSER ASSEMBLY FOR RTU-8. SEE DETAIL 1/M2.0.
- ALL FANS THAT ARE BELT DRIVEN WILL RECEIVE BELT AUTO-TENSIONER.
- ALL RTU'S TO BE FURNISHED WITH FIELD INSTALLED NON-FUSED DISCONNECT SWITCH.
- ALL RTU'S TO BE FURNISHED WITH FIELD INSTALLED 120V GFCI CONVENIENCE OUTLET, FIELD WIRED.
- ALL RTU'S TO BE FURNISHED WITH FACTORY INSTALLED VARIABLE FREQUENCY DRIVE FOR MSAV BLOWER CONTROL.
- ALL RTU'S TO BE FURNISHED WITH FACTORY INSTALLED DRAIN PAN OVERFLOW SWITCH.
- ALL RTU'S TO BE PROVIDED WITH FACTORY FURNISHED AND FIELD INSTALLED HAIL GUARDS.
- COORDINATE RTU PLACEMENT WITH STRUCTURAL FRAMING.
- ALL RTU'S TO BE INSTALLED WITH FULL SIZE SUPPLY AND RETURN DROPS.
- ALL RTU'S TO BE INSTALLED WITH HYBRID 14" ROOF CURBS.
- ALL RTUS WITH HUMIDITROL SHALL BE SUPPLIED WITH DUAL HUMIDITY/TEMPERATURE SENSOR LENNOX PART NUMBER (21W06).
- ALL RTUS WITHOUT HUMIDITROL SHALL BE SUPPLIED WITH TEMPERATURE SENSOR LENNOX PART NUMBER (94L60).
- ALL RTU'S SHALL BE FURNISHED WITH FACTORY INSTALLED GLOBAL ECONOMIZER AND BAROMETRIC RELIEF.
- ALL RTU'S TO BE PROVIDED WITH LENNOX COASTAL COATING ON EVAPORATOR AND CONDENSING COILS IN AREAS WITHIN 25MILES OF OCEAN OR BRACKISH WATER (FRESH/SALT WATER MIX.)

HUMIDITY CONTROL

THE SALON (RTU-2), BATHING/DRYING (RTU-3) AND FRONT SALES AREA (RTU-4) ROOFTOP UNITS ARE PROVIDED WITH LENNOX HUMIDITROL DEHUMIDIFICATION SYSTEM. USING THE PRODIGY CONTROL SYSTEM, SET THE RELATIVE HUMIDITY AT 55% AND ENABLE THE HUMIDITROL TO RUN DURING OCCUPIED AND UNOCCUPIED HOURS. CONTACT LENNOX NATIONAL ACCOUNT TECHNICAL SUPPORT AT 1-800-367-6285 FOR ASSISTANCE WITH PROPER SETUP.

NOTE

TRADE MUST USE ARCHITECTURAL PLANS FOR WORK INSTALLATION. THIS INCLUDES ALL APPLICABLE DETAILS, REFLECTED CEILING PLANS, AND INTERIOR ELEVATIONS.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	FAN DATA				VOLTAGE / PHASE	AREA SERVED	OPERATION
			CFM	EXT. S.P.	H.P. or KW	DRIVE PKG.			
EF-1	CAPTIVEAIRE	DR12HFA	500	0.50"	0.18	DIRECT	120 / 1	ASSOCIATES / COMPUTER/COPY	CONTROLLED BY EMS
EF-2	CAPTIVEAIRE	DR50HFA	1500	0.50"	0.50	DIRECT	120 / 1	BATHING / DRYING	CONTROLLED BY EMS
EF-3	CAPTIVEAIRE	DR50HFA	1300	0.50"	0.25	DIRECT	120 / 1	FISH EQ. / ADOPTIONS / HOLDING	CONTROLLED BY EMS
EF-4	CAPTIVEAIRE	DR12HFA	300	0.50"	0.18	DIRECT	120 / 1	RESTROOMS	CONTROLLED BY EMS
EF-5	CAPTIVEAIRE	DR50HFA	850	0.50"	0.25	DIRECT	120 / 1	SUPPORT / ISOLATION / TREATMENT	CONTROLLED BY EMS
EF-6	CAPTIVEAIRE	DR50HFA	900	0.50"	0.18	DIRECT	120 / 1	KENNEL / FELINE WARD / SURGERY /X-RAY	CONTROLLED BY EMS

- **ALL CAPTIVEAIRE FANS SHALL BE PART OF THE LENNOX EQUIPMENT PACKAGE.**
- OPTIONS: GRAVITY BACKDRAFT DAMPER (SLEEVE TYPE), BIRD SCREEN, CURB, AND UNIT MOUNTED DISCONNECT SWITCH.
- ROOF MOUNTED FAN PLACEMENT MUST BE AT LEAST 10'-0" FROM RTU OUTSIDE AIR HOOD, 5'-0" MINIMUM FROM PARAPET WALL TALLER THAN 42" ABOVE ROOF, AND 10'-0" MINIMUM FROM ROOF EDGE OR PARAPET LESS THAN 42" ABOVE ROOF.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL #	FACE	STYLE	BORDER TYPE	FINISH	DESCRIPTION
E-1	KRUEGER	6690	24x24	PERFORATED	(F23) LAY-IN	WHITE ENAMEL	STEEL, ROUND NECK. SEE PLAN FOR NECK SIZE.
E-2	KRUEGER	56690	24x24	PERFORATED	(F23) LAY-IN	WHITE ENAMEL	ALUMINUM, ROUND NECK. SEE PLAN FOR NECK SIZE.
E-3	KRUEGER	880	12x6	LOUVERED	(F22) SURFACE MOUNT	FIELD PAINT DOVER GRAY	DUCT MOUNTED, DOUBLE DEFLECTION, OPPOSED BLADE VOLUME DAMPER.
E-4	KRUEGER	S580HZ	24x24	LOUVERED	(F23) LAY-IN	WHITE ENAMEL	ALUMINUM, TOP HINGED FACE WITH KNURLED KNOBS. NO SCREW HOLES. PROVIDE 1" FILTER FRAME. SEE PLAN FOR NECK SIZE.
R-1	KRUEGER	S80P	48x24	PERFORATED	(F23) LAY-IN	WHITE ENAMEL	STEEL, TOP HINGE FACE WITH KNURLED KNOBS. PROVIDE 1" FILTER FRAME. SEE PLAN FOR NECK SIZE.
R-2	KRUEGER	6690	24x24	PERFORATED	(F23) LAY-IN	WHITE ENAMEL	STEEL, ROUND NECK. SEE PLAN FOR NECK SIZE.
R-3	KRUEGER	S80H	SEE PLAN	LOUVERED	(F22) SURFACE MOUNT	WHITE ENAMEL	STEEL, RECTANGULAR NECK. 35 DEG. DEFLECTION.
S-1	KRUEGER	SH	24x24	LOUVERED	(F23) LAY-IN	WHITE ENAMEL	STEEL, ROUND NECK. SEE PLAN FOR NECK SIZE.
S-3	CURBS PLUS	**SALES AREA:** DLPD-2010-10/12.5 **RECEIVING:** DLPD 1806-5/6	30x30 28X28	DRUM LOUVER	DUCT MOUNTED	CUSTOM COLOR TO MATCH COLOR P-1 (SEE A7.0)	4-WAY DRUM DIFFUSER SHALL BE PART OF THE LENNOX EQUIPMENT PACKAGE.
S-4	KRUEGER	880HOBD	SEE PLAN	LOUVERED	(F22) SURFACE MOUNT	FIELD PAINT DOVER GRAY	DUCT MOUNTED, DOUBLE DEFLECTION, OPPOSED BLADE VOLUME DAMPER
S-5	KRUEGER	PTBS	48x6	LINEAR SLOT	(F23) LAY-IN	WHITE ENAMEL	(3) 1" SLOTS, ALUMINUM BLADES, INSULATED PLENUM BOX, CENTER NOTCH (CN) FOR T-BAR
S-6	KRUEGER	SSH	24x24	LOUVERED	(F23) LAY-IN	WHITE ENAMEL	PROVIDE ALUMINUM ACCESSORIES FOR WET AREAS (BATHING AREA, DRYING AREA)
TR-1	KRUEGER	6490	24x24	PERFORATED	(F23) LAY-IN	WHITE ENAMEL	STEEL, SQUARE NECK.
TR-2	KRUEGER	S80H	SEE PLAN	LOUVERED	(F22) SURFACE MOUNT	WHITE ENAMEL	STEEL, SQUARE NECK. 35 DEG. DEFLECTION.

- **AIR DEVICES SHALL BE KRUEGER UNLESS OTHERWISE SPECIFIED IN SCHEDULE. NO SUBSTITUTIONS.**
- ALL AIR DISTRIBUTION DEVICES LOCATED IN BATHING/DRYING AREA SHALL BE ALUMINUM CONSTRUCTION.
- ROUND CONNECTION TO MATCH ROUND DUCT DIMENSION AS SHOWN ON FLOOR PLAN. REFER TO 2/M2.0. MANUFACTURER SUPPLIED TRANSITIONS ARE NOT ACCEPTABLE.
- FOR R-1 GRILLE THE CONTRACTOR IS TO PROVIDE TWO (2) 20"x18" PLEATED FILTERS AND FOUR (4) SETS OF KNURLED KNOBS TAPED TO THE INSIDE OF THE GRILLE. PROVIDE TWO (2) ADDITIONAL FILTERS FOR ATTIC STOCK.
- PROVIDE R-6 RIGID INSULATION BLANKET, WITH VAPOR BARRIER, ON THE BACK OF ALL CEILING MOUNTED AIR DEVICES.
- FOR E-4 THE CONTRACTOR IS TO PROVIDE ONE (1) 22"x22" WASHABLE SYNTHETIC HORSE HAIR POLYESTER FILTER. PROVIDE ONE (1) ADDITIONAL FILTER PER GRILLE FOR ATTIC STOCK AND PROVIDE ONE (1) ADDITIONAL SET OF KNURLED KNOBS TAPED TO THE INSIDE OF THE GRILLE.

DESIGN CRITERIA
BUILDING ENVELOPE U-FACTORS:
ROOF: 0.03 INSIDE DESIGN TEMP: SEE CHART ON SHEET M1.0 AT 50% R.H.
WALL: 0.09 FOR BOTH SUMMER AND WINTER
GLASS: 0.38 (ASSUMED SOUTH FACING FOR PROTOTYPE)
1" INSULATED LOW "E" GLASS IS TYPICAL. USE 1" INSULATED LOW "E" GLASS IN GEOGRAPHICAL LOCATIONS FACING BETWEEN SOUTH AND SOUTHWEST AND NORTHWEST (VERIFY WITH PETSMART).
WEATHER:
PROTOTYPE IS DESIGNED USING INDIANAPOLIS, IN WEATHER CONDITIONS OF THE 2018 ASHRAE WEATHER DATA: 1% COLUMN FOR COOLING, 99% COLUMN FOR HEATING.
HEATING:
INTERNAL LOADS:
GENERAL HEAT GAIN FROM PEOPLE - 250 BTUH SENSIBLE, 200 BTUH LATENT.
GENERAL HEAT GAIN FROM ANIMALS -104.8 / 56.4 SM. DOGS 230.7 / 124.2 LG. DOGS
PEOPLE DENSITY - 1 PERSON PER 100 SQUARE FEET EXCEPT AS LISTED BELOW.
LIGHTS - COUNT PER ELECTRICAL LIGHTING PLAN. VALUES AS PER LIGHT SCHEDULE.
EQUIPMENT - SEE LIST BELOW FOR VALUES USED PER ZONE.
VENTILATION - VALUES LISTED BELOW BASED ON 2018 IMC.

DESIGN CRITERIA

ZONE	PEOPLE	EQUIPMENT	VENTILATION (OUTDOOR AIR)	EXHAUST
SALES	-	3500 WATTS	7.5 / 0.12 PEOPLE / AREA CFM	-
TOILETS	-	-	50 CFM / WATER CLOSET/URINAL	-
ASSOC. RESOURCE	8	2500 WATTS	5.0 / 0.06 PEOPLE / AREA CFM	-
BATHING	4	-	7.5 / 0.18 PEOPLE / AREA CFM	0.9 CFM/SF
DRYING	4	400 WATTS	7.5 / 0.18 PEOPLE / AREA CFM	0.9 CFM/SF
SALON	8	1250 WATTS	7.5 / 0.18 PEOPLE / AREA CFM	-
OFFICE	1	1200 WATTS	5.0 / 0.06 PEOPLE / AREA CFM	-
VESTIBULE	-	-	0.06 CFM/SF AREA CFM	-
COMPUTER/COPY	2	2000 WATTS	20 CFM / PERSON	350 CFM
VAULT	1	-	5.0 / 0.06 PEOPLE / AREA CFM	-
HALL	-	-	0.06 CFM / SQ. FT	-
RECEIVING (STORAGE)	3	6750 WATTS	0.12 CFM / SQ. FT	-
HOLDING	-	-	7.5 / 0.18 PEOPLE / AREA CFM	0.9 CFM/SF
ISOLATION	-	-	7.5 / 0.18 PEOPLE / AREA CFM	0.9 CFM/SF
FISH EQUIPMENT	-	2500 WATTS	0.12 CFM / SQ.FT	-
ADOPTIONS	2	-	7.5 / 0.18 PEOPLE / AREA CFM	0.9 CFM/SF
SURGERY	6	300 WATTS	15 CFM / PERSON	-
XRAY	1	300 WATTS	15 CFM / PERSON	-
TREATMENT	6	200 WATTS	15 CFM / PERSON	-
PHARMACY	1	500 WATTS	15 CFM / PERSON	-
EXAM ROOMS	2	100 WATTS	15 CFM / PERSON	-
FELINE	-	-	7.5 / 0.18 PEOPLE / AREA CFM	0.9 CFM/SF

ANIMALS

LOAD CRITERIA	DOGS	LOAD (SENSIBLE / LATENT) PER DOG
BATHING / DRYING	32	16 SMALL (104.8 / 56.4) 16 LARGE (230.7 / 124.2)
SALON	8	2 SMALL (104.8 / 56.4) 6 LARGE (230.7 / 124.2)
CAT ADOPTION	8	5 (104.8 / 56.4)

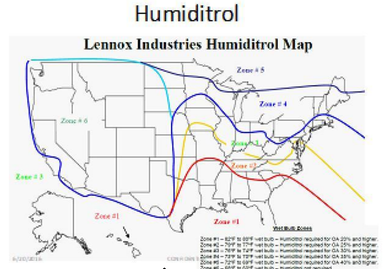
THESE VALUES ARE SUBJECT TO REVIEW AND REVISION, AND SHOULD BE MODIFIED AS REQUIRED FOR EACH PROJECT. IT IS THE RESPONSIBILITY OF THE DESIGNER TO CALCULATE THE HEAT GAINS/LOSSES FOR EACH PROJECT AND REVIEW EQUIPMENT SIZES. PET AREAS ARE REQUIRED BY CODE TO VENTILATE 1 CFM/SF.

SPECIFY SEISMIC RESTRAINT SYSTEMS FOR ALL PIPING, DUCTWORK AND EQUIPMENT AS REQUIRED IN ACCORDANCE WITH APPLICABLE CODES.

HVAC OPERATING TEMPERATURES

RTU #	STORE AREA	COOLING SETPOINTS		HEATING SETPOINTS	
		7 AM TO 9 PM	9 PM TO 7 AM	7 AM TO 9 PM	9 PM TO 7 AM
1	OFFICES / VESTIBULE	73°F	78°F	68°F	64°F
2	SALON	73°F	75°F	68°F	64°F
3	BATHING / DRYING / RESTROOMS	73°F	75°F	68°F	64°F
4, 6 & 7	SALES AREA	73°F	78°F	69°F	64°F
5	ADOPTIONS, FISH, HOLDING	73°F	75°F	68°F	64°F
8	STOCK ROOM	73°F	78°F	68°F	64°F
9	VET	75°F	75°F	71°F	71°F

PETSMART HUMIDITROL MAP

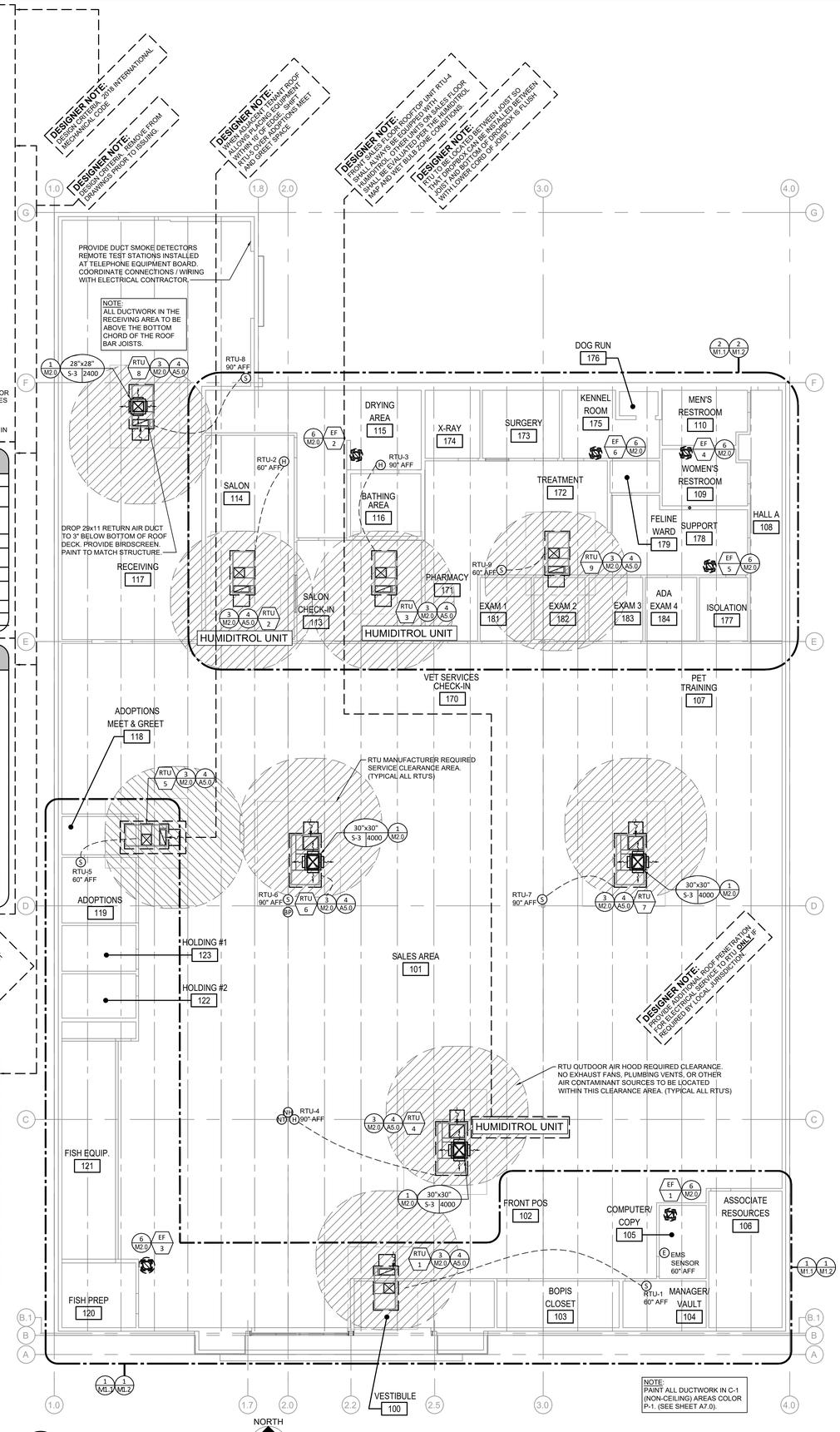


PETSMART HAIL GUARD MAP

MOTORIZED DAMPER SCHEDULE

MARK	MANUFACTURER	MODEL #	CFM		WATTS / VOLTAGE	AREA SERVED	OPERATION
			MIN.	MAX.			
MD-1	APRILAIRE	6608 (8" DIA. DAMPER)	60	125	6W @ 24 VAC	HOLDING ROOM	THERMOSTAT CONTROLLED
MD-2	APRILAIRE	6608 (8" DIA. DAMPER)	60	125	6W @ 24 VAC	HOLDING ROOM	THERMOSTAT CONTROLLED

- **ALL MOTORIZED DAMPERS SHALL BE PART OF THE LENNOX EQUIPMENT PACKAGE.**
- DAMPER SHALL BE DIRECTLY CONNECTED TO THE DIFFUSER NECK.
- FULLY INSULATE DIFFUSER AND DAMPER. SEE DETAIL ON SHEET M2.0.
- SEE WIRING DIAGRAM ON SHEET M2.0 FOR ADDITIONAL INFORMATION ABOUT CONTROLLING DAMPER AND HEATER.
- MECHANICAL CONTRACTOR SHALL PROVIDE A 24VAC TRANSFORMER. DUCT THERMOSTAT WITH TEMPERATURE PROBE AND TWO (2) CONTROL RELAYS FOR EACH DAMPER.



1 M1.0 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DESIGNER NOTE: REMOVE. COATING IS NOT REQUIRED.
DESIGNER NOTE: REMOVE HAIL GUARDS ARE NOT REQUIRED.
DESIGNER NOTE: UPDATE ON A PROJECT SPECIFIC BASIS.
RTU SCHEDULE DESIGNER NOTES: 1. INFORMATION SHOWN IN RTU SCHEDULE IS FOR REFERENCE ONLY. ALL CORRECT OPTIONS FOR EACH RTU AND THAT THE INFORMATION IN THE SCHEDULE MATCHES THE CORRECT RTU TYPE. 2. ALL OPTIONS SHOWN ARE SPECIFIC AT THIS POINT IN THE PROJECT. ALL TYPES OF DRIVE KITS, ECONOMIZERS, SUPPLY FAN SIZES, ETC. ARE SUBJECT TO CHANGE WITH LENNOX AND COORDINATE WITH ENGINEERING WITH FOR THE UNIT SELECTED. 3. GAS ECONOMIZERS ARE NOT REQUIRED IN SOUTHERN CLIMATES. 4. HUMIDITROL COATING IS REQUIRED IN HIGH SCHEDULE COASTAL AREAS. SEE SHEET F0.0 FOR CHANGE NOTES AND COORDINATE WITH LENNOX AND PETSMART CONSTRUCTION MANAGER. 5. LIMITS IN THE SOUTH AND MIDWEST REQUIRE HAIL GUARDS. SEE MAP ON THIS SHEET.
DESIGNER NOTE: REVISE SCHEDULE AS REQUIRED.
DESIGNER NOTE: CHECK LOCAL CODES FOR SMOKE DETECTOR REQUIREMENTS AND LOCATION. WHEN REQUIRED BY CODE OR AUTHORITY HAVING JURISDICTION, DESIGNER SHALL INCLUDE SMOKE DETECTOR IN THE RTU SCHEDULE. ON A PROJECT SPECIFIC BASIS, WHEN REQUIRED BY CODE OR AUTHORITY HAVING JURISDICTION, DESIGNER SHALL INCLUDE SMOKE DETECTOR IN THE RTU SCHEDULE. COMPLY WITH OTHER INFORMATION NOTED IN RTU SCHEDULE NOTES. COMPLY WITH SEISMIC REQUIREMENTS AND/OR SPECIAL INSPECTIONS.
DESIGNER NOTE: PROVIDE 5' CURBS IN HIGH SNOW LOAD AREAS.
DESIGNER NOTE: ADD CONSULTANT WITH EMISTRIC MAP TO THE FRONT SALES UNIT RTU-4 JUST HUMIDITROL. POSSIBLE ADDITIONAL RTU'S WILL BE REQUIRED. CONSULT WITH PETSMART CONSTRUCTION MANAGER FOR RTU-4 PRIOR TO MAKING RTU SELECTION. ADDITIONAL NOTES ACCORDING TO SCHEDULE SHEET.
DESIGNER NOTE: DESIGNED TO BE HAIL GUARD FRIENDLY TO USE FRAME RIMMED TO SUPPORT HAIL GUARDS. AFTER INSTALLING HAIL GUARDS, THE ROOF TOP UNIT SCHEDULE MUST BE EDIT ACCORDINGLY.

TENANT: PETSMART
19601 North 27th Avenue
Phoenix, Arizona 85027 - (623) 580-6100

PROJECT:
18K 2025 U.S. VET SERVICES INSTRUCTION SET

FEBRUARY 12, 2025

ARCHITECT:

CONSULTANT:

SEAL:

CITY SEAL:

DISCLAIMER:
THIS DRAWING AND DESIGN IN COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY PETSMART. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.
THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR:

#	DESCRIPTION	DATE

PROJECT NO: 18K 2025 US INSTRUCTION SET
ORIGINAL SCALE: AS INDICATED
DRAWN BY: XXX
CHECKED BY: XXX
PAGE #: 01 OF: 56
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE 1"
DISCIPLINE: MECHANICAL

TITLE:
MECHANICAL FLOOR PLAN

SHEET NUMBER:
M1.0