

AUGUST 10, 2026

ARCHITECT

CONSULTA

8FAM

CITY SEAL

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PROJECT NO:	16K 2026 US INSTRUCTION SET
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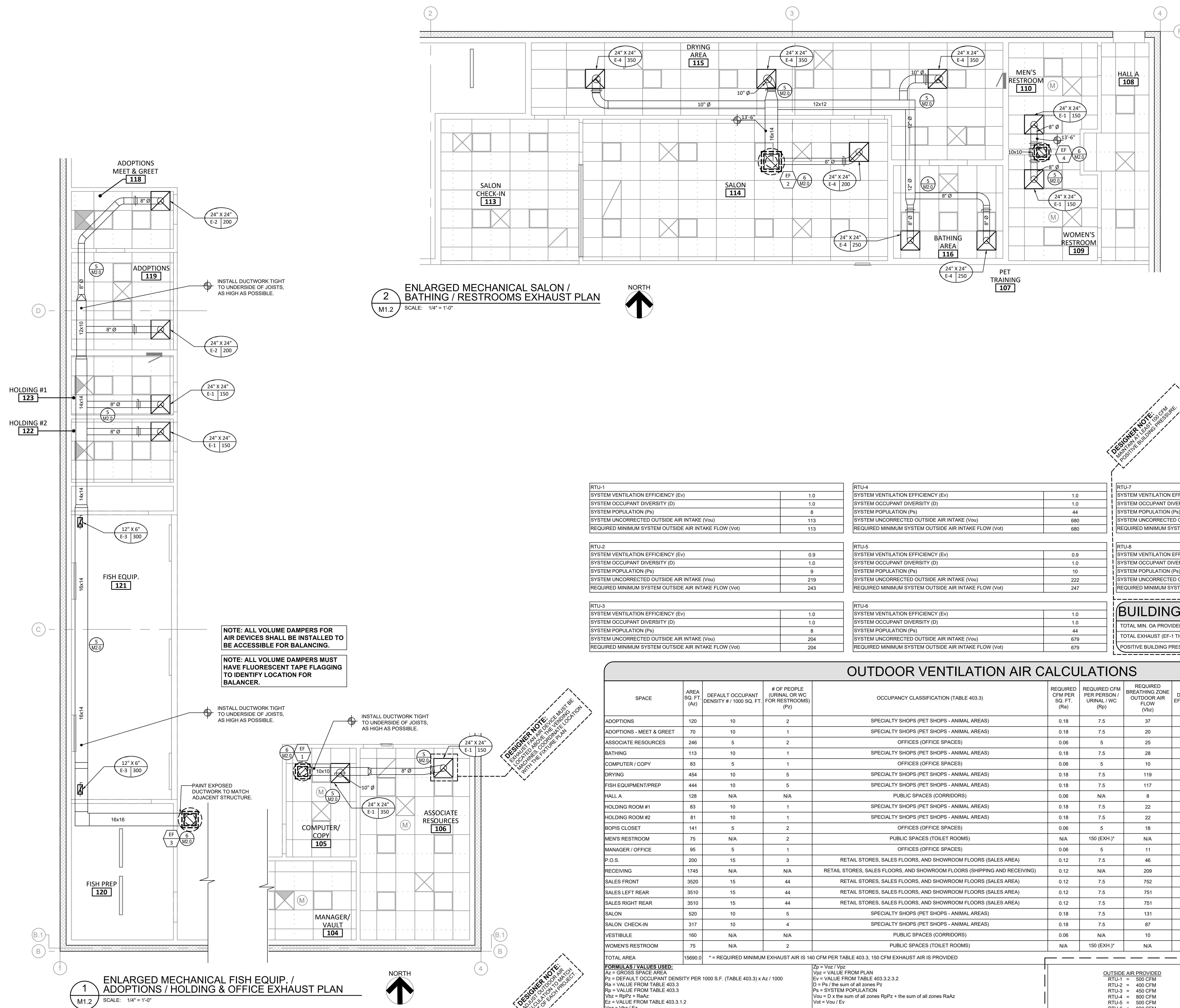
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EXHAUST FLOOR PLANS

SHEET M11

M1.2



RTU-1	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	8
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	113
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	113

RTU-2	
SYSTEM VENTILATION EFFICIENCY (Ev)	0.9
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	9
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	219
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	243

RTU-3	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	8
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	204
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	204

RTU-4	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	680
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	680

RTU-5	
SYSTEM VENTILATION EFFICIENCY (Ev)	0.9
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	10
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	222
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	247

RTU-6	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	679
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	679

RTU-7	
SYSTEM VENTILATION EFFICIENCY (Ev)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (Ps)	44
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (Vou)	681
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (Vot)	681

RTU-8	
SYSTEM VENTILATION EFFICIENCY (E_v)	1.0
SYSTEM OCCUPANT DIVERSITY (D)	1.0
SYSTEM POPULATION (P_s)	0
SYSTEM UNCORRECTED OUTSIDE AIR INTAKE (V_{ou})	217
REQUIRED MINIMUM SYSTEM OUTSIDE AIR INTAKE FLOW (V_{ot})	217

BUILDING AIR BALANCE CALCULATION	
TOTAL MIN. OA PROVIDED (RTU-1 THRU RTU-8)	4750 CFM
TOTAL EXHAUST (EF-1 THRU EF-4)	3950 CFM
POSITIVE BUILDING PRESSURE CFM	800 CFM

OUTDOOR VENTILATION AIR CALCULATIONS												
SPACE	AREA SQ. FT. (A _z)	DEFAULT OCCUPANT DENSITY # / 1000 SQ. FT.	# OF PEOPLE (URINAL OR WC FOR RESTROOMS) (P _z)	OCCUPANCY CLASSIFICATION (TABLE 403.3)	REQUIRED CFM PER SQ. FT. (R _a)	REQUIRED CFM PER PERSON / URINAL / WC (R _p)	REQUIRED BREATHING ZONE OUTDOOR AIR FLOW (V _{bz})	ZONE AIR DISTRIBUTION EFFECTIVENESS (E _z)	ZONE OUTDOOR AIR FLOW (V _{oz})	ZONE PRIMARY OUTDOOR AIR FRACTION (Z _p)	ZONE SUPPLY AIR FLOW (V _{sz})	SYSTEM(S) PROVIDING OUTDOOR AIR (UNIT MARK)
ADOPTIONS	120	10	2	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	37	1.0	37	0.24	150	RTU-5 AND EF-3
ADOPTIONS - MEET & GREET	70	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	20	1.0	20	0.13	150	RTU-5 AND EF-3
ASSOCIATE RESOURCES	246	5	2	OFFICES (OFFICE SPACES)	0.06	5	25	1.0	25	0.03	900	RTU-1 AND EF-1
BATHING	113	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	28	1.0	28	0.07	375	RTU-3 AND EF-2
COMPUTER / COPY	83	5	1	OFFICES (OFFICE SPACES)	0.06	5	10	1.0	10	0.02	450	RTU-1 AND EF-1
DRYING	454	10	5	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	119	1.0	119	0.11	1127	RTU-3 AND EF-2
FISH EQUIPMENT/PREP	444	10	5	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	117	1.0	117	0.08	1450	RTU-5 AND EF-3
HALL A	128	N/A	N/A	PUBLIC SPACES (CORRIDORS)	0.06	N/A	8	1.0	8	0.04	200	RTU-3
HOLDING ROOM #1	83	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	22	1.0	22	0.18	125	RTU-5 AND EF-3
HOLDING ROOM #2	81	10	1	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	22	1.0	22	0.18	125	RTU-5 AND EF-3
BOPIS CLOSET	141	5	2	OFFICES (OFFICE SPACES)	0.06	5	18	1.0	18	0.09	200	RTU-1
MEN'S RESTROOM	75	N/A	2	PUBLIC SPACES (TOILET ROOMS)	N/A	150 (EXH.)*	N/A	N/A	N/A	N/A	100	RTU-3 AND EF-4
MANAGER / OFFICE	95	5	1	OFFICES (OFFICE SPACES)	0.06	5	11	1.0	11	0.04	250	RTU-1
P.O.S.	200	15	3	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	46	1.0	46	0.07	700	RTU-1
RECEIVING	1745	N/A	N/A	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SHIPPING AND RECEIVING)	0.12	N/A	209	1.0	209	0.09	2400	RTU-8
SALES FRONT	3520	15	44	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	752	1.0	752	0.19	4000	RTU-4
SALES LEFT REAR	3510	15	44	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	751	1.0	751	0.19	4000	RTU-6
SALES RIGHT REAR	3510	15	44	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS (SALES AREA)	0.12	7.5	751	1.0	751	0.19	4000	RTU-7
SALON	520	10	5	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	131	1.0	131	0.09	1400	RTU-2 AND EF-2
SALON CHECK-IN	317	10	4	SPECIALTY SHOPS (PET SHOPS - ANIMAL AREAS)	0.18	7.5	87	1.0	87	0.25	350	RTU-2
VESTIBULE	160	N/A	N/A	PUBLIC SPACES (CORRIDORS)	0.06	N/A	10	1.0	10	0.01	900	RTU-1
WOMEN'S RESTROOM	75	N/A	2	PUBLIC SPACES (TOILET ROOMS)	N/A	150 (EXH.)*	N/A	N/A	N/A	N/A	100	RTU-3 AND EF-4
TOTAL AREA	15690.0	* = REQUIRED MINIMUM EXHAUST AIR IS 140 CFM PER TABLE 403.3, 150 CFM EXHAUST AIR IS PROVIDED										
FORMULAS / VALUES USED: A _z = GROSS SPACE AREA P _z = DEFAULT OCCUPANT DENSITY PER 1000 S.F. (TABLE 403.3) x A _z / 1000 R _a = VALUE FROM TABLE 403.3 R _p = VALUE FROM TABLE 403.3 V _{bz} = R _a P _z + R _a A _z E _z = VALUE FROM TABLE 403.3.1.2 V _{oz} = V _{bz} / E _z				Z _p = V _{oz} / V _{sz} V _{sz} = VALUE FROM PLAN E _v = VALUE FROM TABLE 403.3.3.2 D = P _s / the sum of all zones P _z P _s = SYSTEM POPULATION V _{ou} = D x the sum of all zones R _a P _z + the sum of all zones R _a A _z V _{ot} = V _{ou} / E _v				OUTSIDE AIR PROVIDED RTU-1 = 500 CFM RTU-2 = 400 CFM RTU-3 = 450 CFM RTU-4 = 800 CFM RTU-5 = 500 CFM RTU-6 = 800 CFM RTU-7 = 800 CFM RTU-8 = 500 CFM TOTAL = 4750 CFM				

NOTE: CALCULATION OF THE REQUIRED MINIMUM OUTDOOR VENTILATION AIR QUANTITY IS PER 2018 INTERNATIONAL MECHANICAL CODE, SECTION 403.