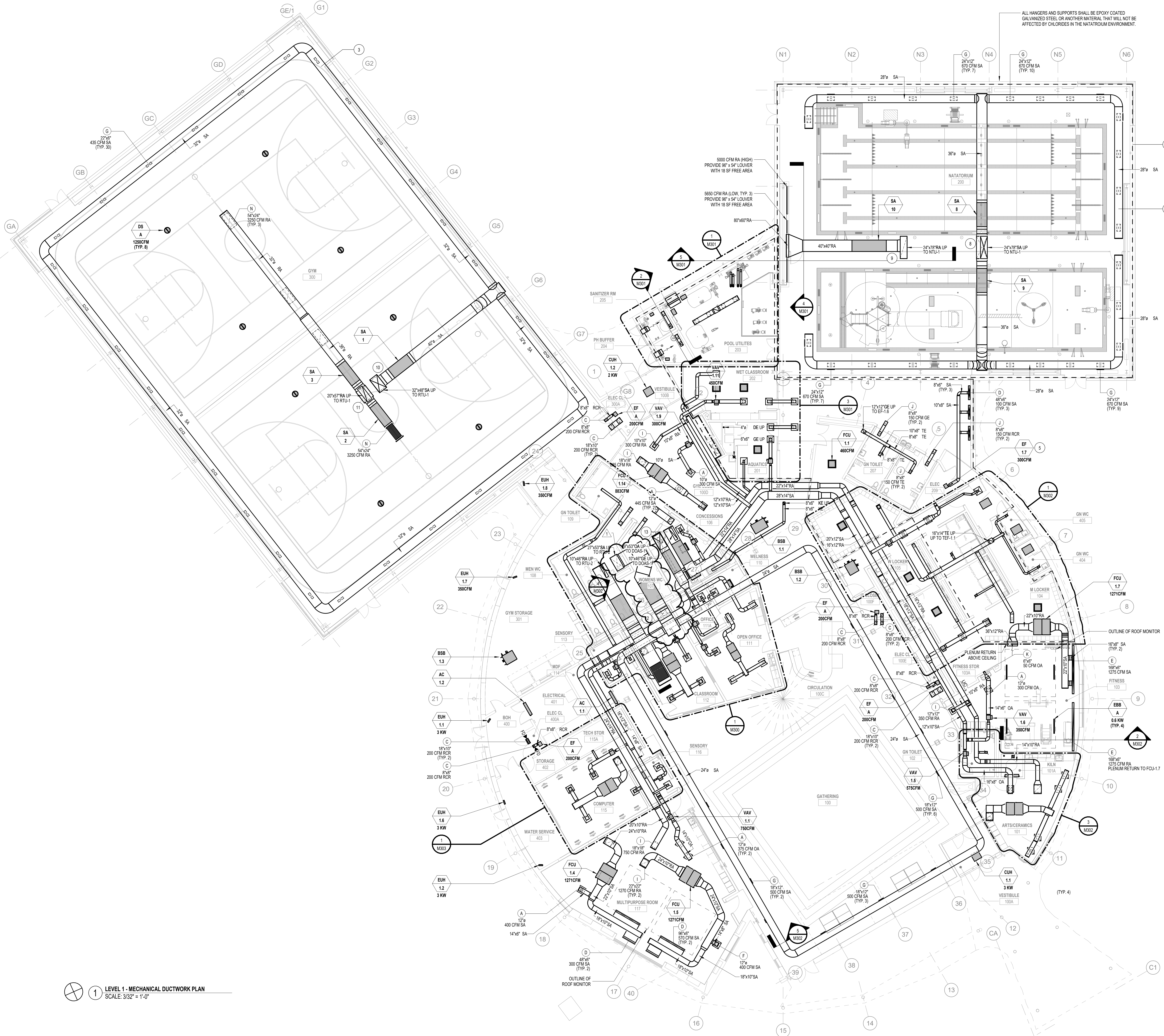
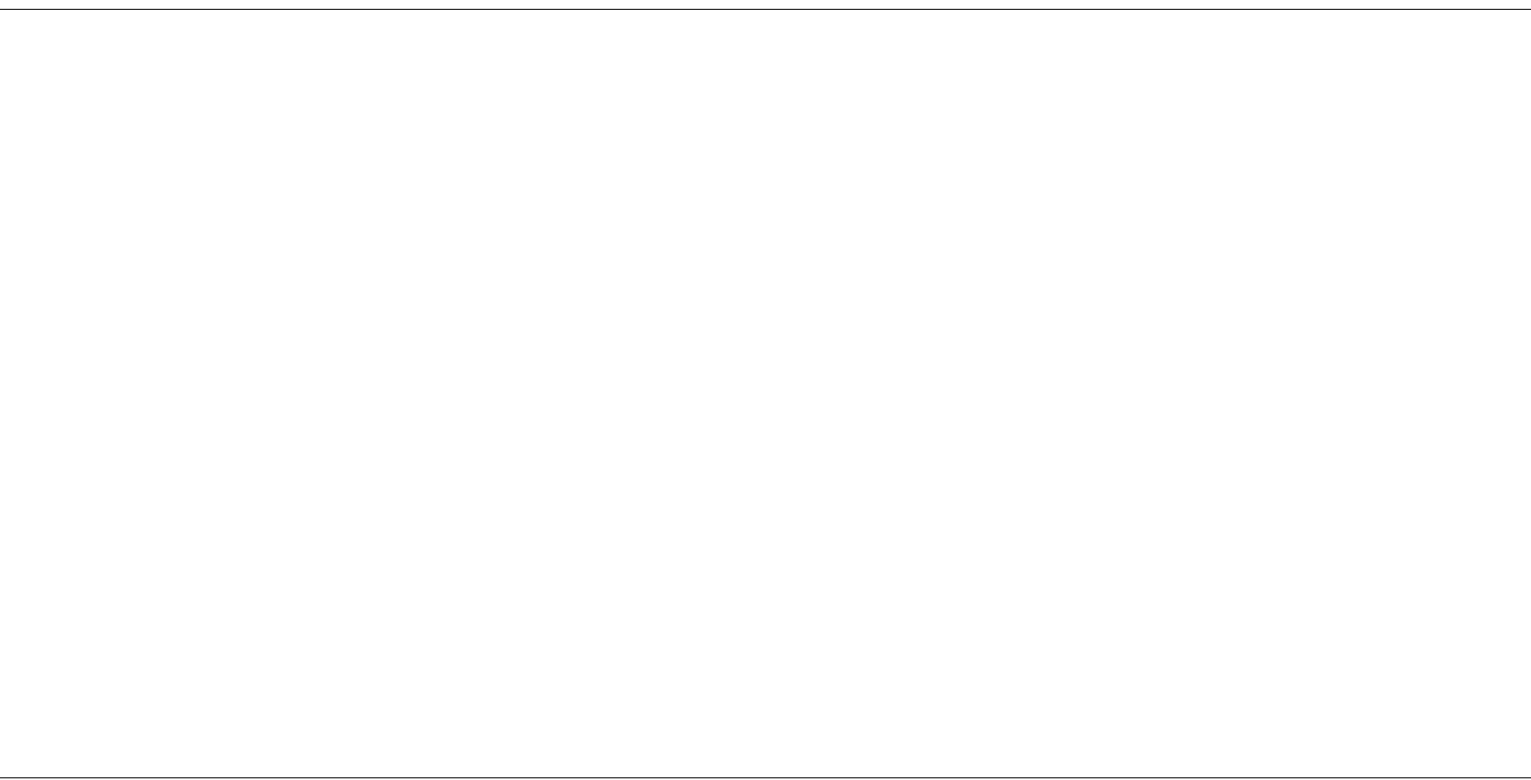




1 LEVEL 1 - MECHANICAL DUCTWORK PLAN
SCALE: 3/32" = 1'-0"

MECHANICAL KEY NOTES:

- 1 INDICATED REGION AND EQUIPMENT INCLUDED IN THAT REGION ARE BASE SCOPE. ALTERNATE SCOPE EXCLUDES THIS REGION. REFER TO M101.1 FOR ALTERNATE SCOPE.
- 2 PROVIDE 4 UNIT HEATERS AND 2 INLINE EXHAUST FANS FOR ALTERNATE PRICING. REFER TO ARCHITECTURAL DRAWINGS FOR BOUNDARIES OF ALTERNATE.
- 3 SUPPLY DIFFUSERS POSITIONED TO "WASH" AIRFLOW DOWN ANY GLASS IN THE SPACE.
- 4 NOT USED.
- 5 FAN SHALL BE ALUMINUM CONSTRUCTION AND A CORROSION RESISTANT COATING.
- 6 NOT USED.
- 7 NOT USED.
- 8 SUPPLY AIR DUCTWORK FROM DISCHARGE OF RTU-1 TO THE DUCT SILENCER(S) SHALL BE FORMED FROM 12 GA. SHEET METAL OR HEAVIER.
- 9 RETURN AIR DUCTWORK FROM INLET OF RTU-1 TO THE DUCT SILENCER(S) SHALL BE FORMED FROM 11 GA. SHEET METAL OR HEAVIER.
- 10 SUPPLY AIR DUCTWORK FROM DISCHARGE OF RTU-1 TO THE DUCT SILENCER(S) SHALL BE FORMED FROM 8 GA. SHEET METAL OR HEAVIER.
- 11 RETURN AIR DUCTWORK FROM INLET OF RTU-1 TO THE DUCT SILENCER(S) SHALL BE FORMED FROM 12 GA. SHEET METAL OR HEAVIER.
- 12 SUPPLY AIR MAIN DUCTWORK FROM OUTLET OF SILENCER TO THE END OF MAIN SUPPLY DUCTWORK SHALL BE FORMED FROM 16 GA. SHEET METAL.
- 13 ALL DUCTWORK CONNECTING THE DOAS TO THE DUCT SILENCERS SHALL BE CONSTRUCTED OF 16 GA. SHEET METAL.

GENERAL MECHANICAL NOTES:

- 1 PROVIDE CONDENSATE PIPING FOR ALL SPLIT AC UNITS AND FAN COIL UNITS. ROUTE ALL CONDENSATE TO NEAREST FLOOR DRAIN.
- 2 ALL LOUVERS FOR POOL SUPPORT ROOMS SHALL BE EPOXY COATED TO PREVENT CORROSION.

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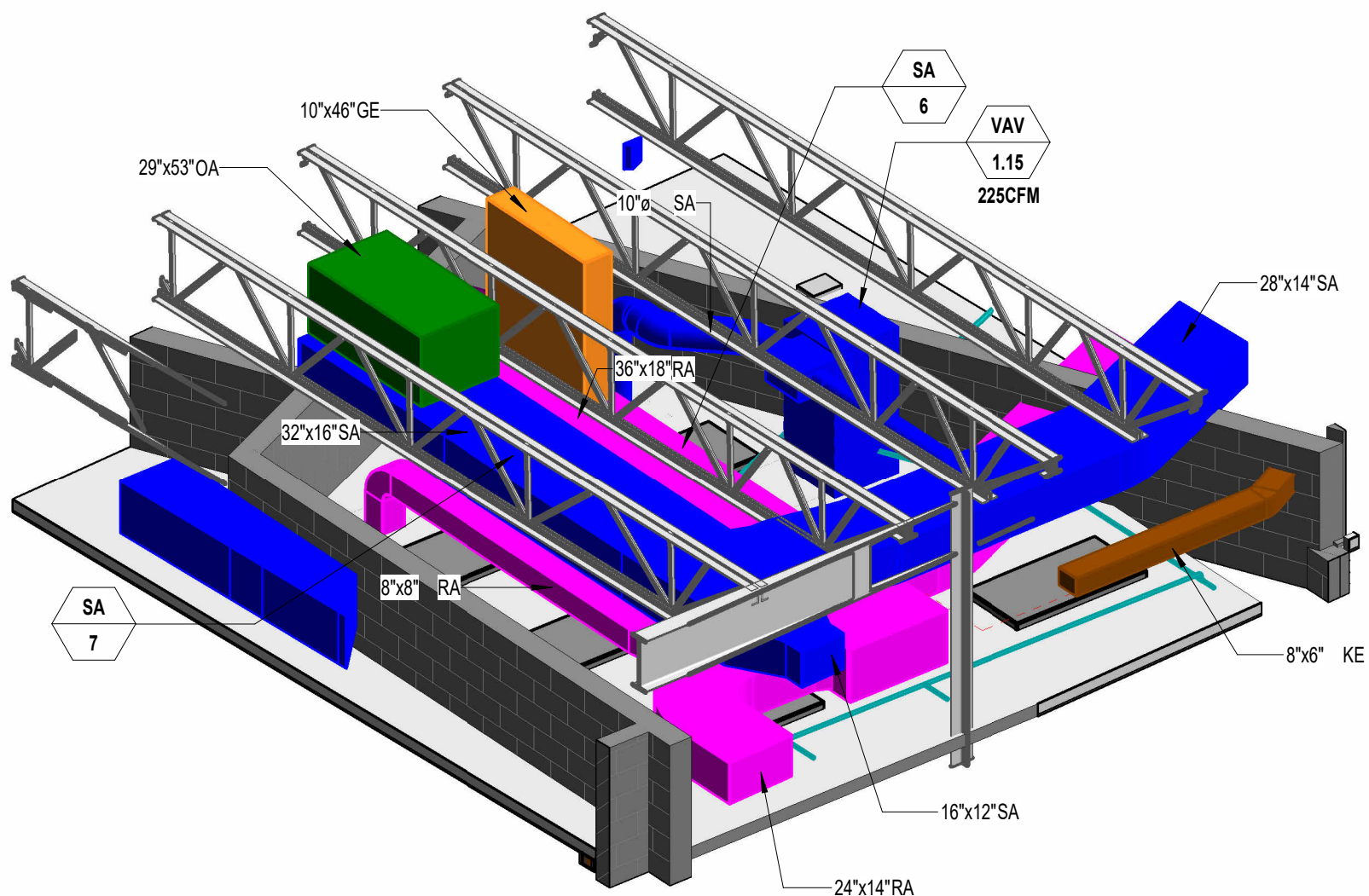
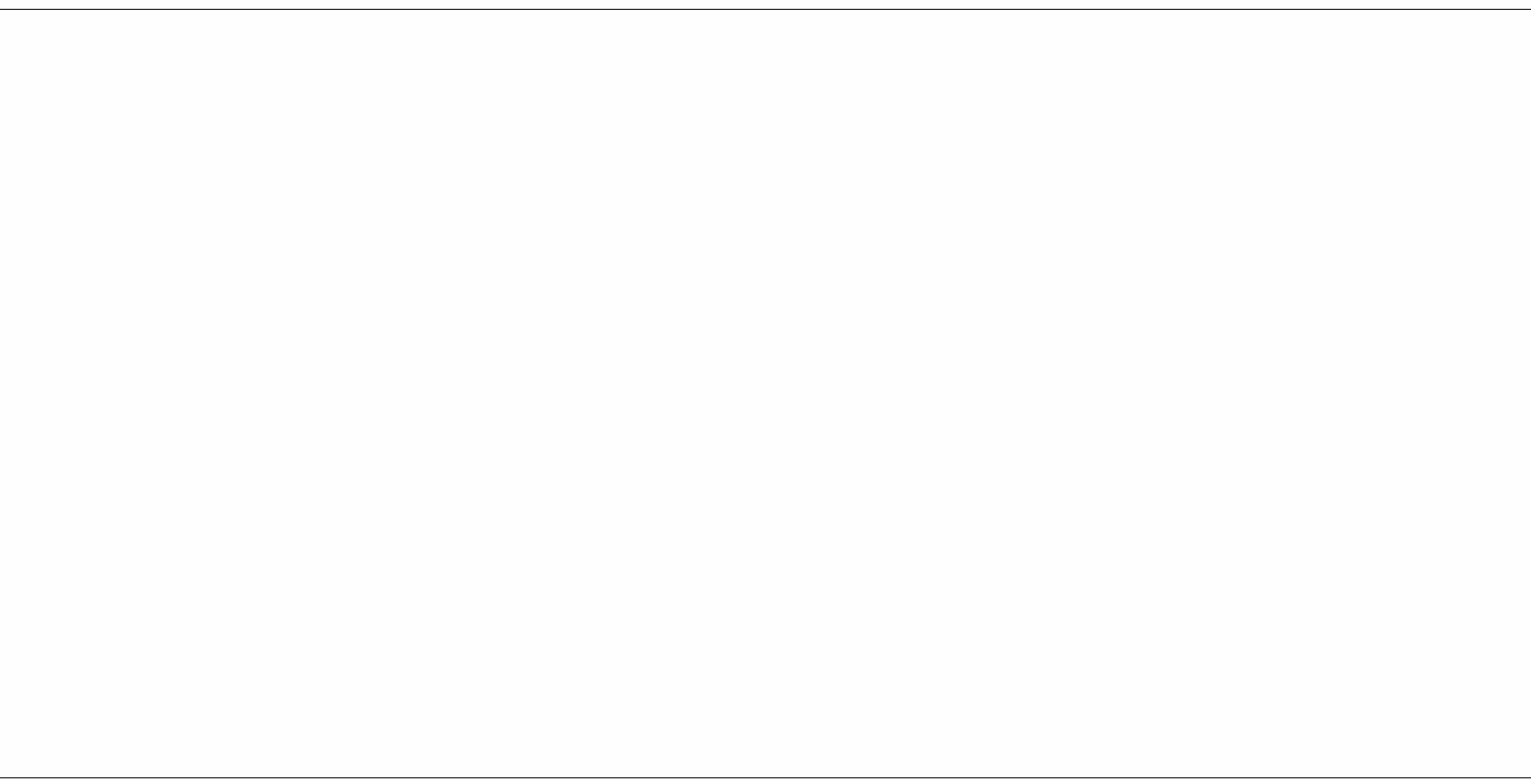
PROJECT #:	2113
SCALE:	As Indicated
FORMAT:	36" X 48"
DRAWN:	
CHECKED:	VA
DATE:	04/17/2026

SHEET NAME:
**LEVEL 1 -
MECHANICAL
DUCTWORK PLAN**

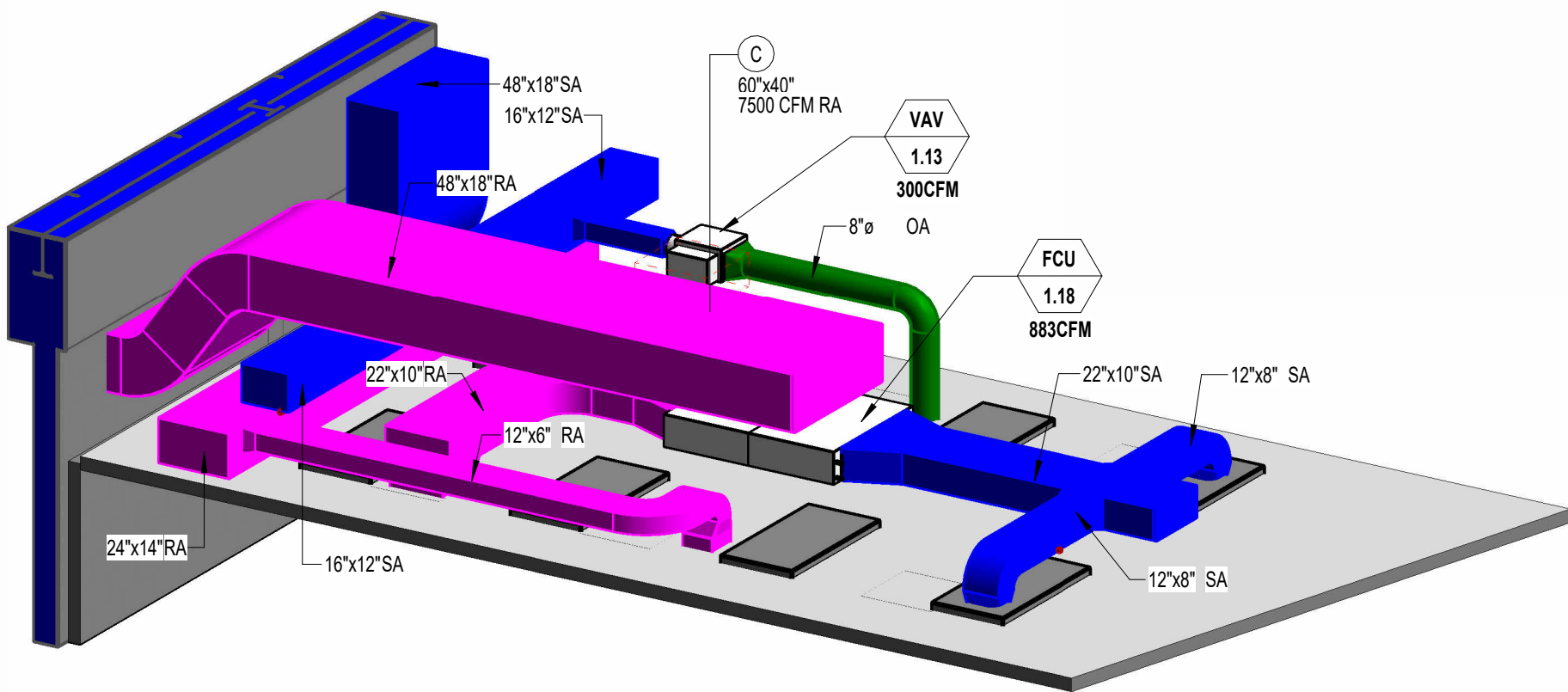
SHEET NUMBER:

M101

PROJECT PHASE:
BID DOCUMENTS



DUCTWORK DROPS FROM DOAS-1 ABOVE CONCESSIONS 106 - 3D VIEW
NTS



DUCTWORK IN CEILING ABOVE CLASSROOM 112 - 3D VIEW
NTS



CONCESSIONS 106, MENS WC 108, WOMENS WC 107, ON TOILET 109, OFFICE 111 & 111A, CLASSROOM 112, RESTROOMS
SCALE: 3/8" = 1'-0"

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1	08/13/26 ADDENDUM 02
DATE	DESCRIPTION

CAROUSEL HOUSE
SITE AND BUILDING
IMPROVEMENTS

1701 Belmont Avenue
(4300 Avenue of the Republic)
Philadelphia, PA 19131

PROJECT #:	2113
SCALE:	3/8" = 1'-0"
FORMAT:	36" X 48"
DRAWN:	
CHECKED:	MEB/BSA
DATE:	04/17/2026

SHEET NAME:
**MECHANICAL 3D
AND ENLARGED
VIEWS**

SHEET NUMBER:
M300

PROJECT PHASE:
BID DOCUMENTS

ROOFTOP AND DEDICATED OUTSIDE AIR UNITS (AIR SOURCE HEAT PUMP)

TAG		SUPPLY FAN										EXHAUST FAN										COIL (COOLING MODE)						COIL (HEATING MODE)						COIL HOT GAS (REHEAT)		ELECTRIC COIL (HEATING MODE)				ELECTRICAL DATA				ENERGY RECOVERY		UNIT WEIGHT		MANUFACTURER	
ABBR.	#	LOCATION	AREA SERVED	REFRIGERANT	UNIT TYPE	OA AIRFLOW (CFM)	MIN. AIRFLOW (CFM)	ESP (IN)	FAN SPEED (RPM)	# OF FANS	EA HP	EA AIRFLOW (CFM)	ESP (IN)	TOTAL SP. (IN)	FAN SPEED (RPM)	# OF FANS	EA HP	CAP TOTAL (MBH)	CAP SENS. (MBH)	EA/T (F)	DBWB (F)	LAT. SOURCE P.D.	EER	CAP TOTAL (MBH)	EA/DB (F)	LAT DB (F)	SOURCE P.D.	COP	LAT DB (F)	CAP (MBH)	KW	TEMP RISE (F)	MODULATION	MCA	MOCOP	VOLTS	PH	RECOVERY WHEEL TAG	UNIT WEIGHT (LBS)	PH	MANUFACTURER								
DOAS	1	ROOF	SEE PLANS	R-454B	5000	5000	2360	2.9	4.53	2223	1	7.5	3800	1.4	2.81	2146	1	3	220.4	160.8	83.3/68.1	52.6/52.4	0.2	14.6	131.9	39.2	60.1	0.01	2.6	94.7	82.8	60	37.9	SCR CONTROLS	121.6	125	480 V	3	ERW-1	4555	TRANE	HORIZON OAD3020C3	1-14	16-20					
RTU	1	ROOF	GYM	R-454B	13000	6500	4363	2.4	1.15	2692	2	15	6500	1.4	2.81	2340	2	7.5	476.5	335.7	77.3/64.1	50.5/49.3	0.48	10.9	311.7	63	81.8	0.09	2	85.8	48.8	111	27.0	SCR CONTROLS	280.1	300	480 V	3	ERW-2	8525	TRANE	HORIZON OAD6004J	1-1	1-19					
RTU	2	ROOF	ATRIUM	R-454B	7500	2000	1690	2.15	4.78	2231	1	10	7500	1.4	2.55	2103	1	1.5	210.1	169.9	76.3/63.2	52.7/52.4	0.28	10.8	138.1	66.9	62.1	0.03	2.1	88.4	88.3	48	20.2	SCR CONTROLS	122.3	125	480 V	3	ERW-3	4540	TRANE	HORIZON OAD3020C3	1-19						

1 NOT USED

2 PROVIDE FULL PERIMETER 24" INSULATED VIBRO CURB WITH 2" MIN STATIC DEFLECTION WITH ADDED MASS TO BLOCK RADIATED SOUND EQUIVALENT TO MASON INDUSTRIES RSC WITH RSC-DB AND FDS (OPTIONS 5 AND 6). MASS SHALL BE FITTED TO BE WITHIN 1% OF THE PENETRATING DUCTS AND SEALED.

3 INCLUDE SS DRAIN PAN AT DX COOLING COIL SECTION.

4 PROVIDE WITH MERV 13 FILTERS.

5 PROVIDE WITH CONVENIENCE OUTLET AT UNIT.

6 PROVIDE WITH NEMA 3R ELECTRICAL DISCONNECT SWITCH.

7 NOT USED.

8 SUPPLY AND EXHAUST FAN SHALL BE DIRECT DRIVE TYPE WITH FACTORY INSTALLED VFD IN OUTDOOR RATED ENCLOSURE.

9 PROVIDE AIRFLOW MEASURING STATION FOR SUPPLY AND EXHAUST FANS.

10 PROVIDE PACKAGED CONTROLS WITH BACNET INTEGRATION AND VAV CONTROL CONFIGURATION AND CONTROL FOR ALL HEATING STAGES.

11 PROVIDE MERV 8 PRE FILTER.

12 PROVIDE SINGLE POINT POWER CONNECTION.

13 PROVIDE WITH BOTTOM SUPPLY/RETURN CONFIGURATION.

14 FAN AND UNIT TO MODULATE DOWN TO MINIMUM CFM.

15 OA AMBIENT CONDITIONS - SUMMER DBWB 95F/75F - WINTER OF.

16 HEAT PUMP HEATING CAPACITY LISTED IS AT OF AMBIENT CONDITIONS.

17 NOT USED.

18 PROVIDE CONDENSER HAIL GUARD. GUARD SHALL BE REMOVABLE TO ACCOMMODATE COIL CLEANING.

19 VARIABLE SPEED COMPRESSOR.

20 NOT USED.

TAG		ENERGY RECOVERY WHEEL																												
ABBR.	#	LOCATION	UNIT SERVED	UNIT CFM	OA CFM	SUMMER CONDITION - OA LEAVING				SUMMER RA CFM	SUMMER CONDITION - RA LEAVING				SUMMER APD INWG	WINTER CONDITION -OA LEAVING				WINTER RA CFM	WINTER CONDITION - RA LEAVING				WINTER APD INWG	WHEEL MOTOR POWER (HP)	MANUFACTURER	REMARKS		
						ENTERING	LEAVING				ENTERING	LEAVING				ENTERING	LEAVING				ENTERING	LEAVING								
							DEG. F. (DB)	DEG. F. (WB)	DEG. F. (WB)			DEG. F. (DB)	DEG. F. (WB)	DEG. F. (WB)			DEG. F. (DB)	DEG. F. (WB)	DEG. F. (WB)			DEG. F. (DB)	DEG. F. (WB)	DEG. F. (WB)					DEG. F. (DB)	DEG. F. (WB)
ERW	1	DOAS-1	DOAS-1	5000	8000	95	75	83.3	68.1	3800	75	62.2	60.4	72.3	0.61	0	0	59.2	35.1	3800	72	55.8	16.9	16.8	0.61	0.17	TRANE	1		
ERW	2	RTU-1	RTU-1	13000	6500	95	75	79.6	65.7	6500	75	62.2	60.4	72.3	0.85	0	0	53.8	44.9	6500	72	55.8	16.9	16.8	0.85	0.25	TRANE	1		
ERW	3	RTU-2	RTU-2	7500	2000	95	75	79.8	65.9	2000	75	62.2	60	72	0.55	0	0	53	44.3	2000	72	55.8	19.2	19.1	0.55	0.17	TRANE	1		

1 REFER TO ROOFTOP AND DEDICATED OUTSIDE AIR UNITS SCHEDULE FOR ELECTRICAL INFORMATION

TAG			LOCATION	AREA SERVED	OUTSIDE AIR (CFM)	UNIT ESP (IN)	SUPPLY FAN DATA			EXHAUST FAN DATA			PURGE AIR BLOWER				COMPRESSOR			EVAPORATOR COIL		REHEAT COIL		AUXILIARY HEAT			PACKAGED OUTDOOR AIR DRY COOLER				ELECTRICAL DATA				UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS													
ABBR.	#						CFM	ESP (IN)	# OF MOTORS	HP	CFM	ESP (IN)	# OF MOTORS	MOTOR HP	PURGE AIR (CFM)	BLOWER TYPE	ESP (IN)	# OF MOTORS	MOTOR HP	FLA	MOTOR DRIVE	# OF COMPRESSORS	REFRIGERANT TYPE	CAP TOTAL (MBH)	CAP SENS. (MBH)	TOTAL HEATING CAPACITY (MBH)	CONTROL TYPE	TYPE	INPUT CAP (MBH)	OUTPUT CAP (MBH)	MAX/MIN PRESSURE (IN)	CONNECTION SIZE	DESIGN AIR TEMP (F)	# OF MOTORS					MOTOR HP	FLA	MCA	MOCOP	VOLTS	PH	HZ						
NTU	1	ROOF	NATATORIUM	6000	2.5	22000	1.88	2	15	6800	0.62	2	5.3	17600	AXIAL	0.0	2	5.3	4.7		2	R454B	932.2	540.5	1165.2	FULL MODULATION	GAS HEATER	1000	810	147	2 85 2	95	1165.2	6	4.5	4.7	200	290	480 V	3	60	20000	DECTRON	LD-262-NB-X-P4P3232G2E2BDH	ALL						
																															5	PROVIDE MERV 13 FILTERS.																			
																															6	PROVIDE SUPPLY BLOWER WITH VFD AND EXHAUST BLOWER WITH AN EC MOTOR.																			
																															7	PROVIDE BACNET COMMUNICATION CARD FOR INTEGRATION TO BAS.																			
																															8	LEAVING AIR TEMP OF THE DX COIL SHALL BE 54F/54F DBWB. LEAVING AIR TEMP OF THE UNIT SHALL BE 106 F IN HEATING MODE.																			

VRF FAN COIL UNIT																											
TAG	ABBR.	#	AREA SERVED	INDOOR UNIT TYPE	FED FROM		CONDENSATE PUMP	INTEGRAL FILTER	SOUND PRESSURE LEVEL (dBA)	COOLING MODE		HEATING MODE		DIMENSIONS			ELECTRICAL DATA			UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS				
					OUTDOOR UNIT SELECTOR	ZONE SELECTOR				EA/ WB (F)	WB (F)	EA/ WB (F)	WB (F)	HEIGHT	WIDTH	DEPTH	MCA	VOLTS	PH								
FCU	1.1	206 POOL STOR	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	43	480	75	62.5	16048	12601	70	11300	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP016FM1MDA	1-4	
FCU	1.2	110 WELLNESS	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	30	280	75	62.5	4458	4458	70	3088	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	29	MITSUBISHI ELECTRIC	TRFLYP006FM1MDA	1-4	
FCU	1.3	COMPUTER 115	HORIZONTAL DUCTED	CJ-1	B8B 1.2	INTEGRAL			43	180	0.6	75	62.5	13386	18672	70	14880	978"	3'-7 3/8"	2'-4 7/8"	2.5	208 V	1	66	MITSUBISHI ELECTRIC	TREFFY020AM1MDA	1-5
FCU	1.4	117 MULTIPURPOSE ROOM	HORIZONTAL DUCTED	CJ-1	B8B 1.2	INTEGRAL			43	1271	0.6	75	62.5	32097	27588	70	22059	978"	4'-7 1/8"	2'-4 7/8"	3.1	208 V	1	84	MITSUBISHI ELECTRIC	TREFFY030AM1MDA	1-5
FCU	1.5	117 MULTIPURPOSE ROOM	HORIZONTAL DUCTED	CJ-1	B8B 1.2	INTEGRAL			43	1271	0.6	75	62.5	32097	27588	70	22059	978"	4'-7 1/8"	2'-4 7/8"	3.1	208 V	1	84	MITSUBISHI ELECTRIC	TREFFY030AM1MDA	1-5
FCU	1.6	101 ARTS / CERAMICS	HORIZONTAL DUCTED	CJ-1	B8B 1.3	INTEGRAL			44	1300	0.6	75	62.5	42798	32606	70	29780	978"	4'-7 1/8"	2'-4 7/8"	3.4	208 V	1	86	MITSUBISHI ELECTRIC	TREFFY040AM1MDA	1-5
FCU	1.7	103 FITNESS	HORIZONTAL DUCTED	CJ-1	B8B 1.3	INTEGRAL			43	1271	0.6	75	62.5	32097	27588	70	22059	978"	4'-7 1/8"	2'-4 7/8"	3.1	208 V	1	84	MITSUBISHI ELECTRIC	TREFFY030AM1MDA	1-5
FCU	1.8A	104 M LOCKER	CEILING CASSETTE	CJ-1	B8B 1.3	INTEGRAL		WASHABLE FILTER	34	335	-	75	62.5	10699	8747	70	7445	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP012FM1MDA	1-4
FCU	1.9B	104 M LOCKER	CEILING CASSETTE	CJ-1	B8B 1.3	INTEGRAL		WASHABLE FILTER	34	335	-	75	62.5	10699	8747	70	7445	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP012FM1MDA	1-4
FCU	1.10A	105 W LOCKER	CEILING CASSETTE	CJ-1	B8B 1.3	INTEGRAL		WASHABLE FILTER	33	315	-	75	62.5	7133	7001	70	4863	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	29	MITSUBISHI ELECTRIC	TRFLYP006FM1MDA	1-4
FCU	1.10B	105 W LOCKER	CEILING CASSETTE	CJ-1	B8B 1.3	INTEGRAL		WASHABLE FILTER	33	315	-	75	62.5	7133	7001	70	4863	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	29	MITSUBISHI ELECTRIC	TRFLYP006FM1MDA	1-4
FCU	1.11	113 SENIORY	CEILING CASSETTE	CJ-1	B8B 1.2	INTEGRAL		WASHABLE FILTER	34	335	-	75	62.5	10699	8747	70	7445	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP012FM1MDA	1-4
FCU	1.12A	202 WET CLASSROOM	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	33	315	-	75	62.5	7133	7001	70	4863	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	29	MITSUBISHI ELECTRIC	TRFLYP006FM1MDA	1-4
FCU	1.12B	202 WET CLASSROOM	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	33	315	-	75	62.5	7133	7001	70	4863	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	29	MITSUBISHI ELECTRIC	TRFLYP006FM1MDA	1-4
FCU	1.13	201 AQUATICS	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	43	460	75	62.5	16048	12601	70	11300	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP016FM1MDA	1-4	
FCU	1.14	1000 GYM LOBBY	HORIZONTAL DUCTED	CJ-1	B8B 1.1	INTEGRAL			39	883	0.6	75	62.5	21388	18672	70	14880	978"	3'-7 3/8"	2'-4 7/8"	2.5	208 V	1	66	MITSUBISHI ELECTRIC	TREFFY020AM1MDA	1-5
FCU	1.15	106 KITCHEN	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	39	380	-	75	62.5	13374	10581	70	9375	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP016FM1MDA	1-4
FCU	1.16	111A REC LEADER	CEILING CASSETTE	CJ-1	B8B 1.1	INTEGRAL		WASHABLE FILTER	30	290	75	62.5	4458	4458	70	3088	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	29	MITSUBISHI ELECTRIC	TRFLYP006FM1MDA	1-4	
FCU	1.17	111 ADMIN	HORIZONTAL DUCTED	CJ-1	B8B 1.1	INTEGRAL			34	371	0.6	75	62.5	10699	8116	70	7445	978"	2'-3 5/8"	2'-4 7/8"	1.9	208 V	1	47	MITSUBISHI ELECTRIC	TREFFY012AM1MDA	1-5
FCU	1.18	112 CLASSROOM	HORIZONTAL DUCTED	CJ-1	B8B 1.1	INTEGRAL			39	883	0.6	75	62.5	24072	18906	70	17096	978"	3'-7 3/8"	2'-4 7/8"	2.5	208 V	1	66	MITSUBISHI ELECTRIC	TREFFY027AM1MDA	1-5
FCU	1.19	116 SENIORY	CEILING CASSETTE	CJ-1	B8B 1.2	INTEGRAL		WASHABLE FILTER	34	335	-	75	62.5	10699	8747	70	7445	814"	1'-10 1/2"	1'-10 1/2"	0.36	208 V	1	31	MITSUBISHI ELECTRIC	TRFLYP012FM1MDA	1-4

VRF ZONE SELECTOR												
TAG		NUMBER OF PORTS	ELECTRICAL DATA			MANUFACTURER	MODEL	REMARKS				
ABBR.	#		MCA	VOLTS	PH							
BSS	1.1	12	1.1	208	1	mitsubishi electric	CMB-M1012NU-MA-SV					
BSS	1.3	8	0.74	208	1	mitsubishi electric	CMB-M108NU-MB-SV					
BSS	1.2	8	0.74	208	1	mitsubishi electric	CMB-M108NU-MB-SV					

[illegible]

PANEL BOARD: MP-L-1													
LOCATION: ELECTRICAL 401				VOLTS: 120/208 Wye				A.I.C. Rating: 65 kA		NEUTRAL BUS: STANDARD COPPER			
MOUNTING TYPE: SURFACE				PHASES: 3				MAINS TYPE: MLO		GROUND BUS: STANDARD COPPER			
ENCLOSURE: NEMA 1				WIRES: 4				MAINS RATING: 400 A					
FED FROM: NEMA 1				MCB TYPE: COPPER									
CCT NO.	Load Name	TRIP	POLES	A		B		C		POLES	TRIP	Load Name	CCT NO.
1	KILN 101A	50 A	3	4780 VA	320 VA	4780 VA	320 VA			2	15 A	FCU 1.5 MULTIPURPOSE ROOM 117	2
3		--	--					4780 VA	320 VA	2	15 A	FCU 1.4 MULTIPURPOSE ROOM 117	6
5		--	--							2	15 A	FCU 1.3 COMPUTER 115	10
7	ROP 1 WATER SERVICE 403	15 A	1	530 VA	320 VA	110 VA	295 VA			2	15 A	FCU 1.15 CONCESSIONS 106	12
9	BSB 1.3, FCU 1.1B	15 A	2					110 VA	295 VA	2	15 A	FCU 1.14 GYM LOBBY 100D	14
11		--	--			270 VA	35 VA			2	15 A	ACU-2, AC-1.2	18
13	FCU 1.1.2, FCU 1.16, FCU 1.17	15 A	2	270 VA	35 VA			355 VA	2290 VA	2	35 A	FCU 1.7 M LOCKER 104	20
15	FCU 1.6 ARTS/CERAMICS 101	15 A	2							2	15 A	EFA IT CLOSET 100F	22
17		--	--	355 VA	2290 VA					2	15 A	FCU 1.10A & 1.10B, BSB 1.1 & 1.2	24
19	FCU 1.9A, FCU-1.9B	15 A	2			70 VA	355 VA			2	15 A	FCU 1.14 GYM LOBBY 100D	26
21		--	--					70 VA	355 VA	2	15 A	FCU 1.14 GYM LOBBY 100D	28
23	ACU-1, AC-1.1	25 A	2	1650 VA	155 VA	1650 VA	155 VA			2	35 A	ACU-3, AC-1.3	30
25		--	--							2	15 A	EFA ELEC CL 400A	32
27	FCU 1.1.8 CLASSROOM 112	15 A	2					260 VA	260 VA	2	15 A	IBI DSA	34
29		--	--	260 VA	260 VA	7197 VA	260 VA			2	15 A	SPARE	36
31	CU-1A	100 A	3			7197 VA	260 VA	7197 VA	260 VA	2	15 A	SPARE	38
33		--	--							2	35 A	SPARE	40
35		--	--	7197 VA	4580 VA					2	15 A	SPARE	42
37	IFA	15 A	2			155 VA	4580 VA	155 VA	155 VA	2	15 A	SPARE	44
39		--	--							1	15 A	SPARE	46
41	CU-B1B	100 A	3	7197 VA	155 VA	7197 VA	720 VA			1	15 A	SPARE	48
43		--	--					7197 VA	0 VA	1	20 A	SPARE	50
45		--	--							1	20 A	SPARE	52
47	SPARE	20 A	1	0 VA	0 VA	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	54
49	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	56
51	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	58
53	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	60
55	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	62
57	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	64
59	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	66
61	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	68
63	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	70
65	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	72
67	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	74
69	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	76
71	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	78
73	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	80
75	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	82
77	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	84
79	SPARE	20 A	1	0 VA	0 VA			0 VA	0 VA	1	20 A	SPARE	86
81	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	88
83	SPARE	20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	90
TOTAL LOAD:				30353 VA		28148 VA		24058 VA					
TOTAL AMPS:				258 A		240 A		200 A					
LOAD CLASSIFICATIONS:				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS						
ELECTRICAL HEATING				68220 VA	80.00%	54576 VA	TOTAL CONNECTED LOAD: 52860 VA						
MOTOR/EQUIPT.				14340 VA	50.00%	7170 VA	TOTAL EST. DEMAND: 61746 VA						
RECEPTACLE							TOTAL CONN.: 229 A						
							TOTAL EST. DEMAND: 171 A						
NOTES:													

PANEL BOARD: LP-H-1											
LOCATION: ELECTRICAL 401				VOLTS: 480/277 Wye				A.I.C. Rating: 42 kA			
MOUNTING TYPE: SURFACE				PHASES: 3				MAINS TYPE: MLO			
ENCLOSURE: NEMA 1				WIRES: 4				MAINS RATING: 100 A			
FED FROM: MSB				MCB TYPE: COPPER				NEUTRAL BUS: STANDARD COPPER			
GROUND BUS: STANDARD COPPER											
CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.	
1	LIGHTING GYM 300	20 A	1	1428 VA 1836 VA			1	20 A	LIGHTING GYM 300	2	
3	LIGHTING GYM 300	20 A	1	1836 VA 1836 VA	1836 VA		1	20 A	LIGHTING GYM 300	4	
5	LIGHTING GYM 300	20 A	1	1836 VA 1836 VA	1632 VA 1862 VA		1	20 A	LIGHTING NATATORIUM 200	6	
7	LIGHTING NATATORIUM 200	20 A	1	1862 VA 1274 VA			1	20 A	LIGHTING NATATORIUM 200	8	
9	LIGHTING NATATORIUM 200	20 A	1	1666 VA 1862 VA			1	20 A	LIGHTING NATATORIUM 200	10	
11	LIGHTING 100, 100C	20 A	1	1602 VA 1672 VA			1	20 A	LIGHTING 105, 201-203, 207, 209	12	
13	LIGHTING GATHERINGS 100	20 A	1	1515 VA 1890 VA			1	20 A	LIGHTING GYM STORAGE 301	14	
15	LIGHTING ROOM 403, 115, 111, 116	20 A	1	1436 VA 1507 VA			1	20 A	LIGHTING ROOM 104, 10A	16	
17	LIGHTING EXTERIOR SOUTH	20 A	1	106 VA 736 VA			1	20 A	EXTERIOR SITE LIGHTING	18	
19	EXTERIOR SITE LIGHTING	20 A	1	952 VA 1012 VA			1	20 A	EXTERIOR SITE LIGHTING	20	
21	LIGHTING ON TOILET 109	20 A	1	98 VA 0 VA			1	20 A	SPARE	22	
23	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	24	
25	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	26	
27	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	28	
29	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	30	
31	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	32	
33	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	34	
35	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	36	
37	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	38	
39	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	40	
41	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	42	
TOTAL LOAD:				11769 VA	10241 VA	7610 VA					
TOTAL AMPS:				44 A	38 A	27 A					
LOAD CLASSIFICATIONS:				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS				
LIGHTING				29619 VA	100.00%	29619 VA	TOTAL CONNECTED LOAD: 29619 VA				
RECEPTACLE							TOTAL EST. DEMAND: 10619 VA				
							TOTAL CONN.: 36 A				
NOTES:											

PANEL BOARD: MP-H-1											
LOCATION: ELECTRICAL 401				VOLTS: 480/277 Wye				A.I.C. Rating: 65 kA			
MOUNTING TYPE: SURFACE				PHASES: 3				MAINS TYPE: MLO			
ENCLOSURE: NEMA 1				WIRES: 4				MAINS RATING: 250 A			
FED FROM: MSB				MCB TYPE: COPPER				NEUTRAL BUS: STANDARD COPPER			
GROUND BUS: STANDARD COPPER											
CCT NO.	Load Name	TRIP	POLES	A	B	C	POLES	TRIP	Load Name	CCT NO.	
1	EUH-1.2, EUH-1 & WATER SERV.	15 A	3	2000 VA 2000 VA	2000 VA 2000 VA	2000 VA 2000 VA	1	15 A	EUH-1.2, EUH-1 & STORAGE 301	2	
3	---	---	---	---	---		---	---	---	4	
5	---	---	---	---	---		---	---	---	6	
7	EUH-1.1 BOH 400	15 A	3	1000 VA 8000 VA		2000 VA 2000 VA	3	45 A	EUH-1	8	
9	---	---	---	---	---	1000 VA 8000 VA	---	---	---	10	
11	---	---	---	---	---		---	---	---	12	
13	EUH-2	45 A	3	8000 VA 0 VA			1	20 A	SPARE	14	
15	---	---	---	---	---	8000 VA 0 VA	1	20 A	SPARE	16	
17	---	---	---	---	---		---	---	---	18	
19	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	20	
21	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA		1	20 A	SPARE	22	
23	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	24	
25	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	26	
27	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	28	
29	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	30	
31	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	32	
33	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	34	
35	SPARE	20 A	1	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA	1	20 A	SPARE	36	
37	SPARE	20 A	1	0 VA 30353 VA			3	125 A	T-1	38	
39	SPARE	20 A	1	0 VA 28148 VA			---	---	---	40	
41	SPARE	20 A	1	0 VA 24058 VA			---	---	---	42	
TOTAL LOAD:				51353 VA	49148 VA	45058 VA					
TOTAL AMPS:				188 A	180 A	163 A					
LOAD CLASSIFICATIONS:				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS				
ELECTRICAL HEATING				15000 VA	100.00%	15000 VA	TOTAL CONNECTED LOAD: 145500 VA				
MOTOR/EQUIPT.				116220 VA	80.00%	92976 VA	TOTAL EST. DEMAND: 115146 VA				