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project no. | CMGCE0021

owner



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project info

ARENA BOULEVARD CHIPOTLE  
2650 ARENA BLVD.  
SACRAMENTO, CA

issue dates

<b>submission:</b>	Date
permit bid	02/25/2022
<b>revisions:</b>	Date
# Description	Date
1 Rev-1 Plan Check Comments & Client changes	08/29/22

designed by: U. SHAIKH  
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seal



sheet info

HVAC SCHEDULES  
**M600**

### ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW			NET COOLING CAPACITY				HEATING CAPACITY			NUMBER OF		REFRIGERANT			ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	DB	WB	COND. EAT	INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE	CHARGE	WEIGHT	MOC/P	MCA			V/P/H	MANUFACTURER		MODEL
RTU-1	KITCHEN ROOF TOP UNIT	8.5 ton	11.2	3,400 CFM	500 CFM	0.80 in-wg	96,230 Btu/h	59,540 Btu/h	76.8 °F	67.7 °F	97 °F	180 Btu/h	148 Btu/h	64.1 °F	2	2	R-410A	14 lb	1,300 lb	50 A	42 A	208/3/60	HES	GC	CARRIER	48FCM09	FURNISHED WITH LOW LEAK DRY BULB ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTIC, BAROMETRIC RELIEF, SUPPLY AIR SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-13 FILTERS, CURB, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, NON-POWERED UNIT-MOUNTED CONVENIENCE RECEPTACLE, HIGH STATIC BELT DRIVE BLOWER WITH VFD, MICRO-CHANNEL "ALL ALUMINUM" CONDENSER COIL, COPPER TUBE/ALUMINUM FIN EVAPORATOR COIL.
RTU-2	DINING ROOM ROOF TOP UNIT	10 ton	11	4,000 CFM	1,000 CFM	0.80 in-wg	118,180 Btu/h	104,450 Btu/h	80.3 °F	64.1 °F	99 °F	250 Btu/h	205 Btu/h	60 °F	2	2	R-410A	15.3 lb	1,300 lb	60 A	51 A	208/3/60	HES	GC	CARRIER	48FCM12	FURNISHED WITH LOW LEAK DRY BULB ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTIC, BAROMETRIC RELIEF, SUPPLY AIR SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-13 FILTERS, CURB, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, NON-POWERED UNIT-MOUNTED CONVENIENCE RECEPTACLE, HIGH STATIC BELT DRIVE BLOWER WITH VFD, MICRO-CHANNEL "ALL ALUMINUM" CONDENSER COIL, COPPER TUBE/ALUMINUM FIN EVAPORATOR COIL.

### KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	AIRFLOW	E.S.P.	EXHAUST PLENUM				PERFORATED SUPPLY PLENUMS							NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS			
					NO.	WIDTH	LENGTH	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	MAU PLENUM	AC PLENUM	MANUFACTURER					MODEL					
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	3,200 CFM	0.86 in-wg	2	10"	1' - 3"	14' - 3"	4' - 3"	15' - 3"	1' - 10"	1,950 CFM	4	10"	2' - 0"	800 CFM	7	8"	10	1,200 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPS-P	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

### FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST UL762 EXHAUST FAN	3,200 CFM	1.20 in-wg	300 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	NCA24HPFA	BELT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

### MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,950 CFM	0.80 in-wg	225,000 Btu/h	220,000 Btu/h	21 °F	650 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-G10	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

### CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOC/P	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99MIZOP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9F	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5F	FURNISHED WITH ICE MAKER

### VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	18" X 18"	CAPTIVE-AIRE NCA24HPFA	TDC	GC	ENVIROMATIC

### AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
BS1	BATHROOM AIR PURIFICATION UNIT		STAINLESS STEEL	STAINLESS STEEL	SURFACE MOUNT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG3	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR-1	TURBO NOZZLE DIFFUSER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPT	ANR-14	PROVIDE WITH FACE-ACCESSIBLE OBD
SR-2	TURBO NOZZLE DIFFUSER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPT	ANR-12	PROVIDE WITH FACE-ACCESSIBLE OBD

### AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	3,200 CFM	-3,200 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,950 CFM	0 CFM	0 CFM	1,950 CFM
RTU-1	3,400 CFM	2,900 CFM	0 CFM	500 CFM
RTU-2	4,000 CFM	3,000 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

### CONTROL FUNCTIONS

- THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.