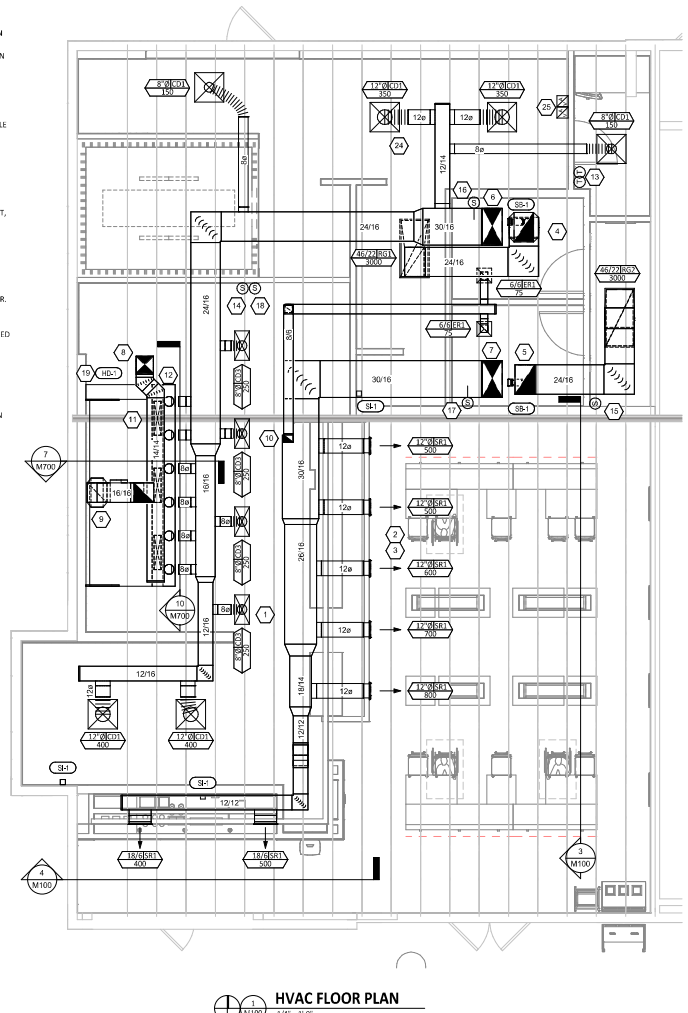
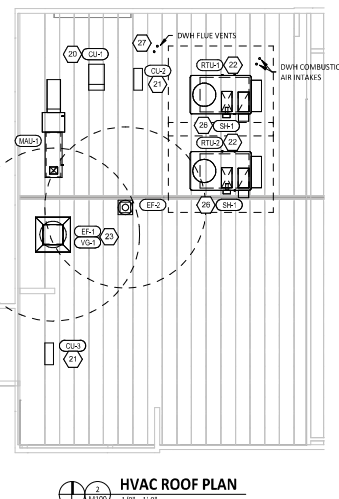
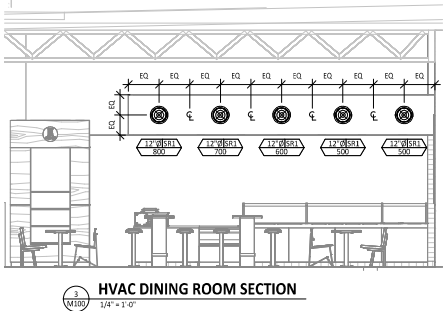
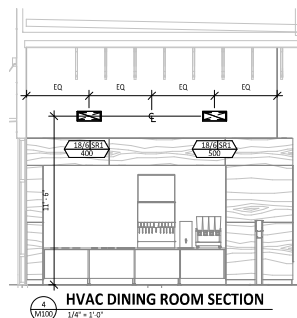


HVAC PLAN NOTES

- 1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- 2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.
- 3 ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
- 4 24/16 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 5 24/16 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
- 6 30/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 7 30/16 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 8 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 9 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIALISED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 10 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 11 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. FOR 3.
- 12 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- 13 INSTALL SINGLE GANG VERTICAL I-BOX GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7.10.
- 14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7.10.
- 15 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7.10.
- 16 INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7.10.
- 17 INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7.10.
- 18 INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 60" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- 19 INSTALL KITCHEN HOOD, HD-1, SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 5/M/700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
- 20 INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3" OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- 21 INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3" OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- 22 INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 23 INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M/700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIRBOGLAND SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- 24 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M/700, TYPICAL.
- 25 PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- 26 INSTALL REME HALO AIR PURIFIER FURNISHED BY TLV IN RTU PER DETAIL 6/M/700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED. MAINTAIN 12" CLEARANCE BETWEEN WATER HEATER FLE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 12" CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLE AND COMBUSTION AIR TERMINATIONS.



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Issue Record	DATE	DESCRIPTION
01-08-2024	PERMIT SET	
04-05-2024	PERMIT RESUBMITTAL	
04-22-2024	PERMIT SET	
06-11-2024	CONSTRUCTION SET	

Drawn	Checked
JEI	CIK

Project No:
 2301132

HVAC PLAN

M100

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HYAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-8-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION

VIROGUARD SCHEDULE

TAG	QUANTITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU180HFA	TDC	GC	ENVIRONMENTIC

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD3	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINIUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	432DA TYPE L	PROVIDE INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINIUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	432DA TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
FR1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINIUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINIUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE S	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINIUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	<varies>	SEE NECK SIZE	ALUMINIUM	WHITE	WALL	GC	GC	<varies>	<varies>	<varies>

FAN SCHEDULE

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [IN W.C.]	WEIGHT [LBS]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	3500 CFM	1.20 IN W.C.	400	0.18 HP	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.40 IN W.C.	100	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRIFT DAMPER AND ROOF CURB

MAKEUP AIR UNIT WITH EVAPORATIVE COOLING SCHEDULE

TAG	DESCRIPTION	AIRFLOW		HEATING CAPACITY			EVAPORATIVE COOLING CAPACITY			ELECTRICAL			BASIS FOR DESIGN		REMARKS					
		TOTAL [CFM]	E.S.P. [IN W.C.]	INPUT [MBH]	OUTPUT [MBH]	MAXIMUM TURNDOWN	EAT [DEG. F]	DB	WB	DB	WB	MAKEUP FLOW [GPM]	APPROXIMATE WEIGHT [LBS]	MOTOR POWER		V/P/H	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL
MAU-1	MAKEUP AIR UNIT	1300	0.8	225	220	12.5:1	28°F	104°F	65°F	67°F	65°F	9.8	800	2 HP	208/3/60	THIS	GC	CAPTIVE-AIRE	A1-D-250-G10	FURNISHED WITH DISCONNECT, ROOF CURB, AND EVAPORATIVE COOLER INTAKE

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-404A		200	15 A	6.5 A	208/3/60	WCS	GC	HARFORD	PCL9MOP-3	FURNISHED WITH WALK-IN COOLER
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-3	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM				PERFORATED SUPPLY PLENUMS										BASIS FOR DESIGN		REMARKS							
			AIRFLOW [CFM]	SP [IN. W.C.]	DUCT COLLARS		MAU PLENUM		AC PLENUM		NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [LBS]	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL										
					NO.	WIDTH	LENGTH	LENGTH	WIDTH	SP [IN. W.C.]							SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH		AIRFLOW [CFM]	DUCT COLLARS NO.	DIAMETER				
HD-1	TYPE C CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	2550	0.97	1	10"	24"	12'-9"	4'-3"	0.1	13'-9"	10"	1300	3	6"	28"	700	6	8"	8	1100	HS	GC	CAPTIVE-AIRE	5424 NO-2-ACSP5P-F	MATT: 18 GA. TYPE 430 SS. PROVIDE WITH VERTICAL END PANELS, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM ONLY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			NET COOLING CAPACITY			HEATING CAPACITY			# OF COMPRESSORS	# OF CIRCUITS	REFRIG. TYPE	REFRIG. CHARGE	APPROX. WEIGHT [LBS]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL [CFM]	OA [CFM]	ESP [IN. W.C.]	TOTAL [MBH]	SENSIBLE [MBH]	EAT [DEG. F]	COND. EAT [DEG. F]	INPUT [MBH]	OUTPUT [MBH]						EAT [DEG. F]	MOCP	FLA			V/P/H	MANUFACTURER		MODEL
RTU-1	KITCHEN ROOFTOP UNIT	10	12.4	3500	500	0.8	98	78	78	62	105	250	200	62	2	R-410A	7.1/5.0	1900	60 A	45.0 A	208/3/60	HS	GC	TRANE	YHC120	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYPAD ANNUNCIATOR/PRESET, M.O.D., VIEW-8 FILTERS, CURB, HALL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10	12.4	4000	1000	0.8	97	94	82	62	106	250	200	58	2	R-410A	7.1/5.0	1900	60 A	45.0 A	208/3/60	HS	GC	TRANE	YHC120	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYPAD ANNUNCIATOR/PRESET, M.O.D., VIEW-8 FILTERS, CURB, HALL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE

*GC TO COORDINATE WITH GRIDPOINT SO THAT ONLY FIRST STAGE HEATING IS ACTIVE ON RTU-1 & RTU-2**

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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.

Revised:

01-08-2024	PERMIT SET
04-05-2024	PERMIT RESUBMITTAL
04-22-2024	PERMIT SET
06-11-2024	CONSTRUCTION SET

Revisions:

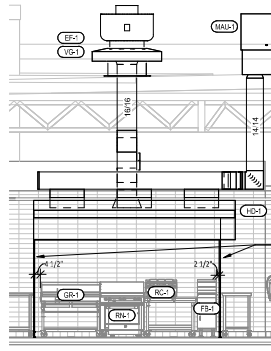
1	02/16/2024	BUILDING COMMENTS
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Drawn: JEJ
 Checked: CIK

Project No.: 2301132

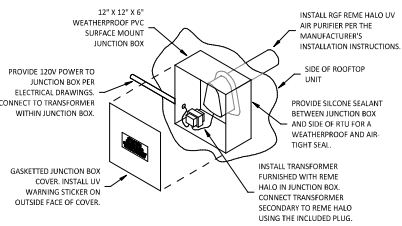
HVAC SCHEDULES

M600



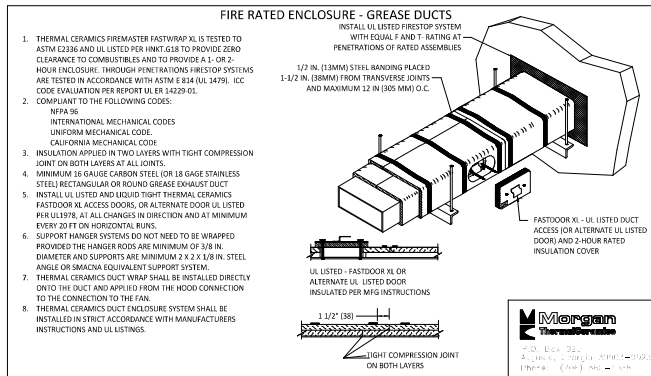
INSTALL VERTICAL END PANELS AT EACH END OF HOOD AS SHOWN. HOOD IS UL LISTED FOR 0" OVERHANG WHEN USED WITH VERTICAL END PANELS.

HOOD ELEVATION
1/4" = 1'-0"



INSTALLATION LOCATION
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH HV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIRE EXHAUST LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:
FRAME: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
YORK: INSTALL INTO THE SUPPLY AIR FLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

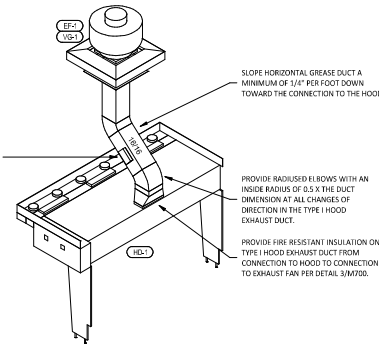
UV AIR PURIFIER INSTALLATION
N.T.S.



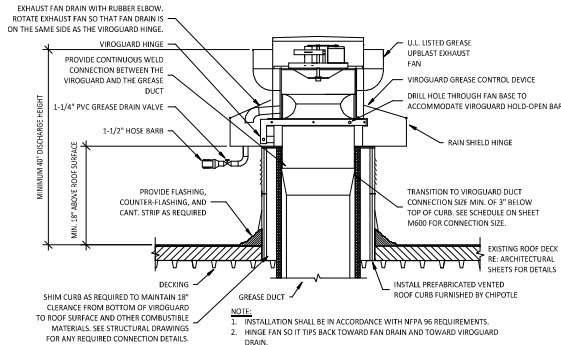
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HMT-G18 TO PROVIDE 2000 CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1-, OR 2-HOUR ENCLOSURE THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 824 (UL 1479). ICC CODE EVALUATION PER REPORT ULR 14229 (UL).
2. COMPLIANT TO THE FOLLOWING CODES:
NFPA 96
INTERNATIONAL MECHANICAL CODES
UNIFORM MECHANICAL CODE
CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16-GAUGE CARBON STEEL (OR 18-GAUGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SIMILAR EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY OVER THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.

FIREMASTER DUCT WRAP - UL HNK1-G18
N.T.S.

GREASE DUCT CLEANOUTS SHALL BE UL LISTED DUCTMADE PRE-INSULATED CLEANOUT DOORS MODEL D328UW3H FOR DUCTS AT LEAST 17\"/>



HOOD EXHAUST ISOMETRIC
N.T.S.

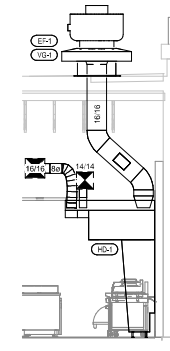


GREASE EXHAUST FAN
N.T.S.

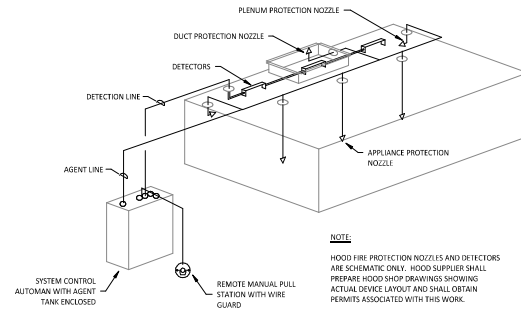
SLOPE HORIZONTAL GREASE DUCT A MINIMUM OF 1/4\"/>

PROVIDE RADIOUS ELBOWS WITH AN INSIDE RADIUS OF 0.5 X THE DUCT DIMENSIONS AT ALL CHANGES OF DIRECTION IN THE TYPE I HOOD EXHAUST DUCT.

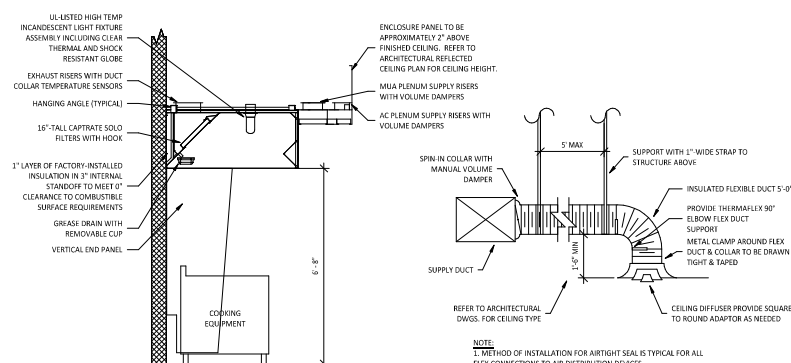
PROVIDE FIRE RESISTANT INSULATION ON TYPE I HOOD EXHAUST DUCT FROM CONNECTION TO HOOD TO CONNECTION TO EXHAUST FAN PER DETAIL 3/17/00.



DUCT SECTION AT HOOD
1/4\"/>



FIRE SUPPRESSION SYSTEM SCHEMATIC
N.T.S.



HOOD SECTION VIEW
N.T.S.

DIFFUSER CONNECTION
N.T.S.

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STORE NO.: 4673
DESERT COLOR & SOUTHERN PARKWAY
5095 SOUTH DESERT COLOR PARKWAY
ST. GEORGE, UT 84790

Issue Record	DATE	DESCRIPTION
01-08-2024	PERMIT SET	
04-05-2024	PERMIT RESUBMITTAL	
04-22-2024	PERMIT SET	
06-11-2024	CONSTRUCTION SET	

Drawn	Checked
JEI	CKB

Project No:
2301132

HVAC DETAILS

M700

SECTION 15065 - COMMON PIPING REQUIREMENTS

- PART 1 - GENERAL**
A. SECTION REQUIREMENTS
 1. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Inverted-actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
C. Mechanical Anchor Fasteners: Inset-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Initial piping free of sags and bends.
B. Initial fittings for changes in direction and branch connections.
C. Initial sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for water sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Initial unions adjacent to each valve and at final connection to each piece of equipment.
G. Initial dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Initial dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
I. Provide full ring enclosures at plumbing penetrations through walls or ceilings. Tightly seal enclosures to the adjacent surface.
3.2 HANGERS AND SUPPORTS
A. Initial building attachments within concrete or structural steel. Initial additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and all changes in direction of piping.
B. Initial powder actuated drive pin fasteners in concrete after cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Initial mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
D. Support fire protection system piping independent of other piping.
E. Load Distribution: Initial hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15065

SECTION 15080 - MECHANICAL INSULATION

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyethylene Pipe Insulation: Unisular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Initial vapor barriers on insulated pipes with surface operating temperatures below 60 deg.F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Coat gas fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation on interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetration through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
L. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
I. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
 1. Domestic cold, hot, and recirculation water pipes.
 2. Exposed sanitary drains and water supply pipes for public hand sinks.
 3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
 1. Flexible connectors.
 2. Fire protection piping systems.
 3. Sanitary drainage and vent piping.
 4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
 5. Piping specialties, including air chambers, unions, strainers, check valves, filter valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
 1. Domestic Hot and Recirculation water pipes: 1-inch preformed glass fiber pipe insulation.
 2. Domestic Cold Water: 1/2 inch preformed glass fiber pipe insulation.
 3. "T" and Future Supplies for public hand sinks: R50 compliant pre-formed insulation.
END OF SECTION 15080

SECTION 15110 - VALVES

- PART 1 - GENERAL (Not Applicable)**
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder joint connections shall comply with ANSI B36.18.
B. Ball Valves: Rated for 150 psig saturated steam pressure. 2 piece construction, with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
C. Plug Valves: Rated at 150 psig WOG, bronze body, with straightaway pattern, square head, and threaded ends.
D. Swing Check Valves: Class 125, cast bronze body and cap, with horizontal swing, T-pattern, and bronze disc.
E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
F. Valves for Steel Pipe: Threaded ends.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Use gate and ball valves for shut-off duty and ball for throttling duty.
B. Locate valves for easy access and provide support where necessary.
C. Initial accessible valves for each fixture and item of equipment.
D. Initial valves in horizontal piping with stem at or above center of pipe.
E. Initial valves in a position to allow full stem movement.
**F. Initial check valves for proper direction of flow in horizontal position with hinge pin level.
 END OF SECTION 15110**

SECTION 15140 - DOMESTIC WATER PIPING

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:
 1. Service Entrance Piping: 100 psig.
 2. Domestic Water Piping: 80 psig.
B. Comply with NSF 14 "Plastic Piping Components and Materials."
C. Comply with NSF 61 "Drinking Water System Components - Health Effects."
PART 2 - PRODUCTS
2.1 PIPS AND TUBES (See Material Schedule on sheet P100 for where these materials are to be used)
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
2.2 FITTINGS
D. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.32.
E. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Fittings: ASME B 16.24, Classes 150 and 300.
D. Copper Unions: ASME B 16.38, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded or solder joint and threaded ends. Threads complying with ASME B 1.20.1.
E. Copper and Copper Alloy Press Connect Pressure Fittings/Copper Press Fittings: ASME B16.51
3.2 JOINING MATERIALS
A. Solder: Fillet Metal: ASTM B 32, lead free.
B. Braze Filler Metals: AWS-A5.8, alloy to suit system requirements.
C. Solvent Cements: As recommended by manufacturers.
D. Pipe Pipe Seal: ASTM F 477, elastomeric gasket.
PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Initial gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Initial gate or ball valves on inlet to each plumbing equipment unit, on each supply to each plumbing fixture not having traps on supplies, and elsewhere as indicated.
C. Initial ball valves in each hot water circulating loop and at low points of horizontal runs, and where required to drain water distribution piping system.
D. Initial swing check valve on discharge side of each pump and elsewhere as indicated.
E. Initial ball valves in each hot water circulating loop and at low points of horizontal runs, and where required to drain water distribution piping system.
3.2 PIPING INSTALLATIONS
A. Initial hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturers.
B. Support vertical piping at each floor.
3.3 INSPECTING AND CLEANING
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
**B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
 END OF SECTION 15140**

SECTION 15150 - SANITARY WASTE AND VENT PIPING

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 foot head.
B. Comply with NSF 14 "Plastic Piping Components and Related Materials."
PART 2 - PRODUCTS
2.1 PIPS AND TUBES
A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2.2 FITTINGS
A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket type; drain, waste, and vent pipe fittings.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Initial horizontal and extension to grade at connection of building sanitary drain and building sanitary vent.
**B. Locate drainage piping runoffs as close as possible to bottom of floor slab supporting fixtures or drains.
 END OF SECTION 15150**

SECTION 15198 - NATURAL GAS PIPING

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIALTIES
A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends.
B. Fittings:
 1. Indulible iron Threaded Fittings: ASME B16.3, Class 150.
 2. Cold Press Mechanical Joint Fitting System: Vega MegaPress
C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
D. Gas Stops: A624 certified, brass-body, plug type with bronze plug, for 1/2 inch or less natural gas. Include A624 stamp, flat or square head or lever handle, and threaded ends complying with ASME B3.2.0.1.
E. Gas Valve: 150 psig WOG, cast iron or bronze body, bronze plug, straightaway pattern, square head, tapered plug type.
F. Gas Pressure Regulators: ANSI Z21.18, single stage, steel jacketed, corrosion resistant pressure regulators. Include atmospheric vent, elevation compensation. Regulator pressure ratings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity as indicated.
G. Line Gas Pressure Regulators: Inlet pressure rating not less than system pressure.
H. Flexible Connectors: ANSI Z21.24, copper alloy.
I. Strainers: Bronze body, T-pattern, full size of connecting piping. Include stainless-steel screens with 1/64 inch perforations and a pressure rating of 125-psig minimum, WOG working pressure.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Close equipment shut-off valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.
B. Initial shut-off valve, downstream from gas meter, outside building at gas service entrance.
C. Initial gas stops for shut-off to appliances with A624 "T" or smaller low pressure gas supply.
D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas meters.
E. Locate where readily accessible to permit closing and emptying. Do not install where condensate would be subject to freezing.
F. Initial gas piping at uniform slope of 0.1 percent upward toward risers.
G. Initial gas piping at uniform slope of 0.1 percent downward toward risers.
F. Connect branch piping from top of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
H. Initial valves in accessible locations, protected from damage.
I. Initial gate valve upstream from each gas pressure regulator. Where two gas pressure regulators are installed in series, valve is not required at second regulator.
J. Connect gas piping to equipment and appliances with shut-off valves and unions. Initial gas valve upstream from and within 36 inches of each appliance using gas. Initial union or flanged connection downstream from valve.
**K. Inspect, test, and purge piping according to NFPA 54, Part 4, "Gas Piping Inspection, Testing, and Purging," and requirements of authorities having jurisdiction.
 END OF SECTION 15198**

SECTION 15410 - PLUMBING FIXTURES

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
Submittals: None.
A. Comply with requirements of Public Law 102-486, "Energy Policy Act," regarding water flow rate and water consumption of plumbing fixtures.
B. Comply with applicable standards below:
 1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
 2. National Sanitation Foundation Construction: NSF2.
PART 2 - PRODUCTS
2.1 PIPS AND TUBES (See Material Schedule on sheet P100 for where these materials are to be used)
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
2.2 FITTINGS
D. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.32.
E. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Fittings: ASME B 16.24, Classes 150 and 300.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fixtures with flanges and gasket seals.
B. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Initial other actuators in locations that are easy for the disabled to reach.
C. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
D. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
E. Fasten wall mounted fittings to reinforcement built into walls.
F. Fasten counter mounted plumbing fixtures to counter.
G. Secure supplies to supports or substrate within pipe space behind fixture.
H. Set mop basin in leveling bed of cement grout.
I. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
J. Install water supply stop valves in accessible locations.
K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated or required by the authority having jurisdiction.
L. Install full-ring enclosures at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep pattern enclosures where required to conceal plumbing pipe fittings.
M. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Initial installation on supplies and drains of fixtures for the disabled.
**N. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
 END OF SECTION 15410**

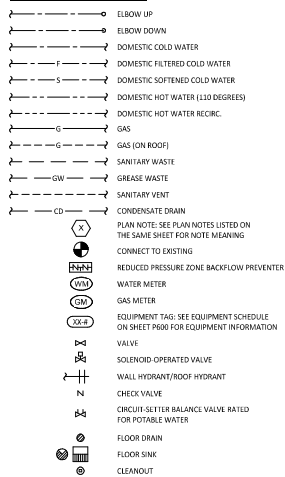
SECTION 1555A - FLUES AND VENTS

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/Air Intake for high efficiency domestic water heater. Follow manufacturer's recommendations for sizing and materials.
B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thumbs, firestopping supports, and fasteners; fabricated of similar materials and designs as vent pipe straight sections.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vents according to stipulated minimum clearances from combustibles.
B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.
**C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.
 END OF SECTION 1555A**

PLUMBING GENERAL NOTES

- A. GENERAL NOTES APPLY TO PLUMBING SHEETS.**
B. PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C. PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
D. CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY, BRAYS, BREAKS, AND DEBRIS PIPES SHALL BE INSTALLED LEVEL.
E. PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FITTING.
F. PROVIDE STOP VALVES AT FITTINGS.
G. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.
H. WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
I. FINISH IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
J. INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE PLUMBING FIXTURE SCHEDULE.
K. PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
L. PLUMBING FITTINGS, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
M. PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITH THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLS, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
**N. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNWINDING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNWINDING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APRYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
 O. PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
 P. PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
 Q. INSTALL SHUT-OFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILINGS IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILING.**

PLUMBING SYMBOLS



PLUMBING ABBREVIATIONS

AFH	ABOUT FINISHED FLOOR
AFG	ABOUT FINISHED GRADE
EX	EXISTING
EXT	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GO	GRADE CLEANOUT
CO2AS	TENANT'S CO2 ALARM SUPPLIER
CG	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KEB	TENANT'S KITCHEN EQUIPMENT SUPPLIER
KTB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
DEC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TL	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
MS	TENANT'S MILLWORK SUPPLIER
IP	TENANT'S PHONE SUPPLIER
TFS	TENANT'S PANELBOARD SUPPLIER
TSS	TENANT'S SAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TSV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PLUMBING MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE
	CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
NATURAL GAS PIPE	CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED
	EXPOSED	PVC PLASTIC DWV PIPE AND FITTINGS
SANITARY WASTE & VENT PIPE	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND, EXPOSED	PVC PLASTIC DWV PIPE AND FITTINGS
SANITARY WASTE & VENT PIPE	BELOW GROUND	BRASS WITH CHROME FINISH
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS

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FOR CONSTRUCTION
 PLAN NOTE: SEE PLAN NOTES LISTED ON THIS SHEET FOR NOTE REVISIONS.
 CONNECT TO EXISTING
 REDUCED PRESSURE ZONE BACKFLOW PREVENTER
 WATER METER
 GAS METER
 EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P60 FOR EQUIPMENT INFORMATION
 VALVE
 SOLENOID OPERATED VALVE
 WALL HYDRANT/ROOF HYDRANT
 CHECK VALVE
 CIRCUIT SERT BALANCE VALVE RATED FOR POTABLE WATER
 FLOOR DRAIN
 FLOOR SINK
 CLEANOUT
 CHIPOTLE MEXICAN GRILL, INC.
 1000 W. BROADWAY
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PLUMBING SPECIFICATIONS

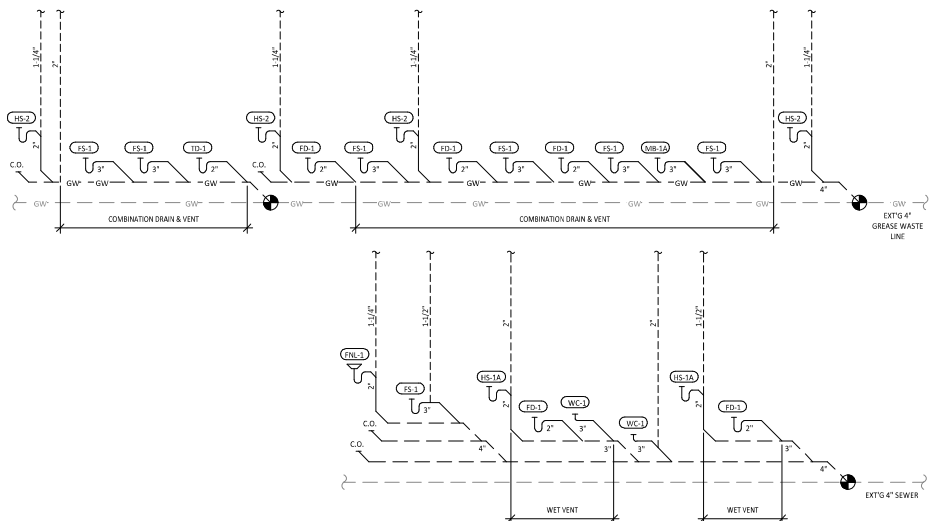
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Pretreatment Notes

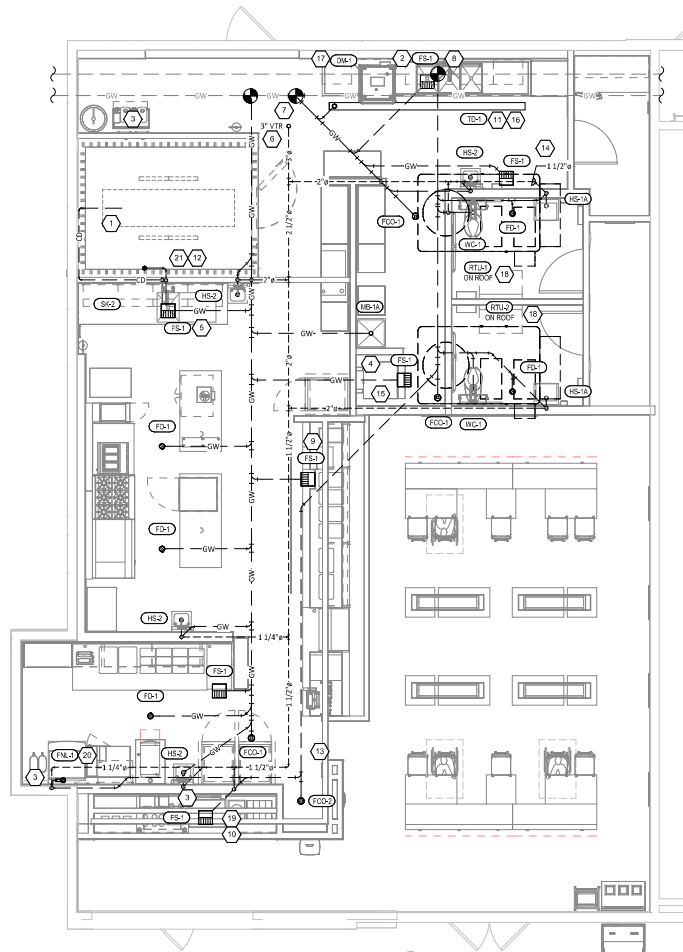
1. A "Food Service Establishment" is defined as any building, vehicle, place, or structure, or any room or division in a building, vehicle, place, or structure, where: (A) food is prepared, served, or sold for immediate consumption on or in the vicinity of the premises; (B) called for or taken out by customers; or (C) prepared prior to being delivered to another location for consumption. (Ord. 8-4-14-2)
2. All newly constructed commercial structures, strip malls, multi-tenant planned occupied buildings, or planned unoccupied buildings, shall install independent wastewater discharge lines submetered out within each designated future food establishment unit. If a new source commercial structure, strip mall, or multi-tenant building has planned occupancy by one or more businesses that do not generate FOG, and therefore do not need a grease interceptor, and the owner of the structure does not facilitate the installation of independent wastewater discharge lines and install a common interceptor, then no future food establishment shall be permitted, unless the facilities are retrofitted for independent lines. (Ord. 8-4-14-3)
3. All plans proposing to install an interceptor must include the City of St. George Standard Detail. (Ord. 8-4-14-3)
4. The discharge of wastewater with temperatures in excess of one hundred forty degrees Fahrenheit (140°F) to any FOGS control device, including interceptors and traps, is prohibited. (Ord. 8-4-14-4)
5. Installation and use of food grinders in new and/or remodeled FSF's are not recommended. (Ord. 8-4-14-4)
6. All drains near chemical storage shall be plugged and/or chemicals shall have secondary containment to prevent discharge into the sanitary sewer.
7. All kitchen fixtures (including mop sinks and excluding hand washing sinks and ice machines) must discharge to the grease waste line that flows into the grease interceptor. Prior to occupancy and/or the issuance of the business license and following the interceptor leak test approval, all kitchen fixtures must pass a dye test performed by the Precinctment Department. Request a dye test from the Pretreatment Department by visiting pretreatment.sgcity.org when all kitchen fixtures are installed, plumbed to the grease interceptor, and have running water to them. Any questions can be directed to (435) 627-4266.
8. No user shall introduce or cause to be introduced into the POTW any pollutant or wastewater as outlined in Ord. 8-4-2.1 (Prohibited Discharge Standards).

PLUMBING WASTE AND VENT PLAN NOTES

1. PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1/8" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A JUNCTION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT 8" AFG AND BE SECURED TO FLOOR.
2. PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 12/P700.
3. COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG IN BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.
4. PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
5. PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
6. PROVIDE 4" 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
7. CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING SHARED 1500 GALLON INTERCEPTOR.
8. CONNECT TO EXISTING 4" SANITARY SEWER.
9. PROVIDE 3/4" JACKETED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
10. PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.
11. TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.
12. PROVIDE LINE-SIZED DRAIN FROM MAU-3 3-WAY SOLENOID VALVE TO FLOOR SINK. CONCEAL IN WALL PER DETAIL 9/P700. DISCHARGE THROUGH AN AIR GAP.
13. DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACES COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
14. PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
15. PROVIDE DRAIN FROM WATER FILTER BIF TO FLOOR SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
16. PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.
17. INSTALL DRAIN HOSE BURNISHES WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.
18. PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.
19. PROVIDE 3/4" PVC DRAIN PIPE FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
20. SEE DETAIL 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.
21. PROVIDE 1-1/2" DRAIN FROM MAU-1 TO FLOOR SINK. CONCEAL IN WALL PER DETAIL 9/P700. DISCHARGE THROUGH AN AIR GAP.



2 SANITARY WASTE & VENT DIAGRAM
N.T.S.



PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	CONNECTION SIZES			FIXTURE UNITS (EACH)				FIXTURE UNITS (TOTAL)			
								CW	HW	WASTE	CW	HW	TOTAL	SAN	CW	HW	TOTAL	SAN
BFP-1	RPT BACKFLOW PREVENTER	GC	GC	CONBACO	4ALF-203-TZF	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			1		1		1	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	FURNISHED BY KES	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1		3/4"	3/4"	0	1	1	0	0	1	1	0
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-6	2 GALLON CAPACITY	1	3/4"			0	0	0	0	0	0	0	0
FCO-1	FLOOR CLEANOUT (4")	GC	GC	SIoux CHIEF	852-4PWR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	3			4"			0	0	0	0	0	0
FCO-2	FLOOR CLEANOUT (3")	GC	GC	SIoux CHIEF	852-3PWR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	1			3"			0	0	0	0	0	0
FD-1	FLOOR DRAIN	GC	GC	SIoux CHIEF	842-2-PWR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	5			2"			0	2	0	0	0	10
FD-1	FLOOR DRAIN	GC	GC	JAY R. SMITH	3832T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			0	0	0	2	0	0	0	0	2
FS-1	FLOOR SINK	GC	GC	SIoux CHIEF	861-3FU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	7			3"			0	5	0	0	0	35
HB-1	HOSE BIBB	KES	GC	T&S	B-2345-01-XX	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	2	1/2"	1/2"		1.5	1.5	2	0	3	3	4	0
HB-2	HOSE BIBB	KES	GC	T&S	B-0730	BILL FAUCET WITH 1/2" NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET	1	1/2"			1.5	0	1.5	0	1.5	0	1.5	0
HS-1A	RESTROOM HAND SINK	GC	GC	KOHLER	K-2084	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN 21231 (21231 D/FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	2	0"	0"	2"	0	0	0	1	0	0	0	2
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	FURNISHED BY KES	--	PLUG IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME OUT DELAY.	2	1/2"	1/2"	0"	1.5	1.5	2	0	3	3	4	0
HS-2	KITCHEN HAND SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"	1.5	1.5	2	1	6	6	8	4
IM-1	ICE MAKER - BOH	KES	GC	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN	1	1/2"			1	0	1	0	1	0	1	0
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MAKER	2	1/2"			1	1	1	1	2	0	2	0
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOULDED STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1	0"	0"	3"	0	0	0	3	0	0	0	3
MB-1B	MOP BASIN FAUCET	KES	GC	FURNISHED BY KES	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACK.	1	1/2"	1/2"	0"	2.25	2.25	3	0	2.25	2.25	3	0
PF-1	POT FILLER	KES	GC	FURNISHED BY KES	--	WALL MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND 3/8" NPT FEMALE INLET	1	1/2"			1.5	0	1.5		1.5	0	1.5	0
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"			1	0	1		1	0	1	0
SK-1	THREE COMPARTMENT SINK	KES	GC	FURNISHED BY KES	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	4	4	4	5	4	4	4	5
SK-2	PREP SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	2886 8601 8602	6" X 160" HOPE TRENCH DRAIN (SLOPED FROM 3/32" TO 4/20") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND GLASS-A-HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL 12/P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"	0	0	0	2	0	0	0	2
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1	1/2"			0	0	0	0	0	0	0	0
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P3-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	1	1/2"			0	0	0	0	0	0	0	0
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE WEGHNE 5.0 GPM, 17-1/2" HIGH, ADA-ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -RA TO THE MODEL # FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	5	0	5	4	10	0	10	8
WH-1	FROST PROOF WALL HYDRANT	GC	GC	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	1	3/4"			1	0	1		1	0	1	0
WS-1	WATER SOFTENER	KES	GC	CUNO	CSM1254E	POINT OF ENTRY HIGH CAPACITY WATER TREATMENT SYSTEM	1	1"			0	0	0	0	0	0	0	0
							47								40.25	22.25	47	71

WATER HEATER SCHEDULE - INSTANTANEOUS

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	INPUT MBH	DELIVERY	NOTES
DWH-1	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVLEN	NPE-240A2	199	354 GPM @ 65° RISE	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 90% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVLEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVLEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).
DWH-2	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVLEN	NPE-240A2	199	354 GPM @ 65° RISE	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 90% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVLEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVLEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

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FOR CONSTRUCTION

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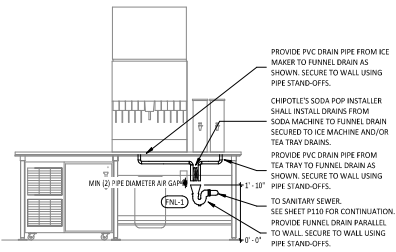
STORE NO.: 4673
 DESERT COLOR & SOUTHERN PARKWAY
 5095 SOUTH DESERT COLOR PARKWAY
 ST. GEORGE, UT 84790

Issue Record:	01-08-2024	PERMIT SET
	04-05-2024	PERMIT RESUBMITTAL
	04-22-2024	PERMIT SET
	06-11-2024	CONSTRUCTION SET

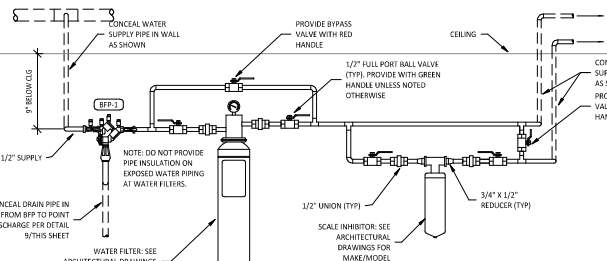
Drawn:	Checked:
JEJ	CIK
Project No.:	2301132

PLUMBING SCHEDULES

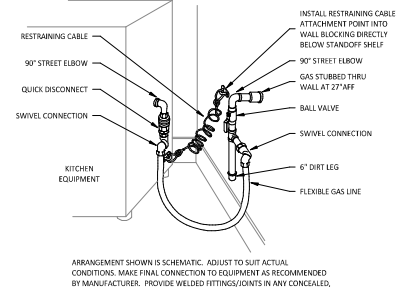
P600



PUW FUNNEL DRAIN DETAIL
18 P700 N.T.S.



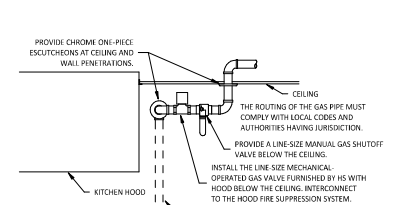
WATER FILTRATION DETAIL
11 P700 N.T.S.



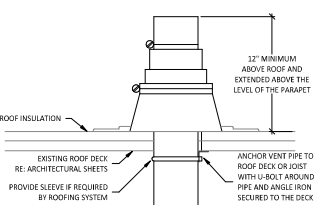
KITCHEN GAS EQUIPMENT DETAIL
7 P700 N.T.S.



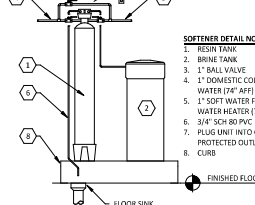
RICE COOKER GAS CONNECTION DETAIL
6 P700 N.T.S.



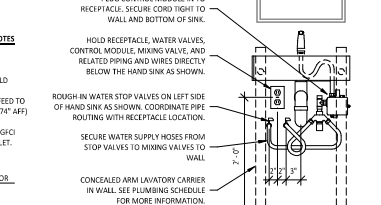
KITCHEN GAS SHUTOFF DETAIL
4 P700 N.T.S.



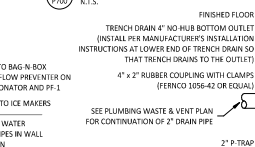
VENT THROUGH ROOF
3 P700 N.T.S.



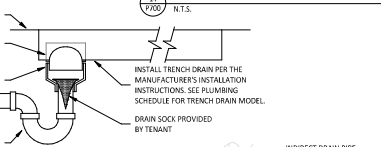
WATER SOFTENER DETAIL
16 P700 N.T.S.



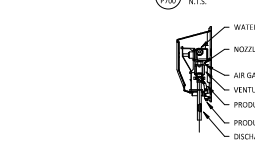
RESTROOM HAND SINK DETAIL
14 P700 N.T.S.



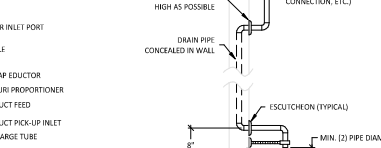
TRENCH DRAIN DETAIL
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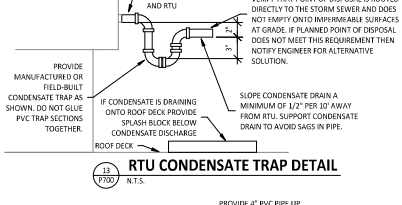
CHEMICAL DISPENSER DETAIL
10 P700 N.T.S.



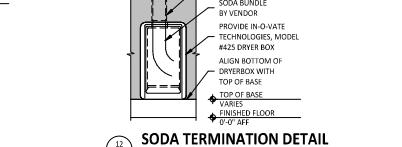
INDIRECT WASTE PIPING DETAIL
9 P700 N.T.S.



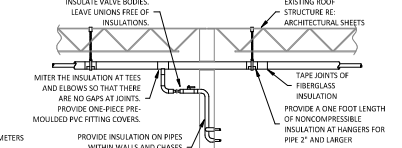
WATER HEATER DETAIL
1 P700 N.T.S.



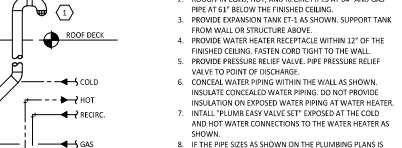
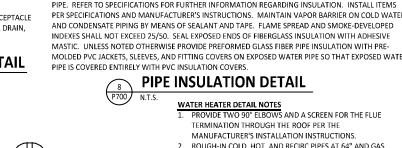
RTU CONDENSATE TRAP DETAIL
13 P700 N.T.S.



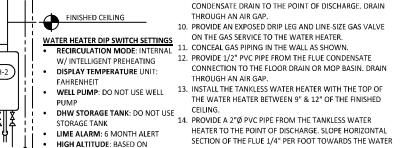
SODA TERMINATION DETAIL
12 P700 N.T.S.



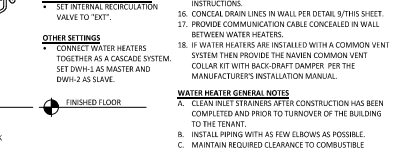
PIPE INSULATION DETAIL
8 P700 N.T.S.



WATER HEATER DETAIL
1 P700 N.T.S.



WATER HEATER DETAIL
1 P700 N.T.S.



WATER HEATER DETAIL
1 P700 N.T.S.

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Drawn: JIE
Checked: CK
Project No: 2301123
3/20/2024
PLUMBING DETAILS
P700

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMELOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	37	KITCHEN B	TIMELOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE				N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMELOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMELOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMELOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMELOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	38	EXT. LIGHTING/SIGNAGE	TIMELOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL COMPONENTS SCHEDULE

DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
8 LIGHTING CONTROL PANEL	1	TLS	GC	ACUTY	ARP IN TENC08 NLT 8SPR MVDL FM DTC	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE AND DIGITAL TIME CLOCK
1 WALL-MOUNTED OVERRIDE SWITCH (4 CHANNEL)	1	TLS	GC	ACUTY	HPD0MA 4P WH	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
1 WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50% IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING. THEN GC SHALL PROVIDE ELTRON DVC/L 23SP DIMMER AS REPLACEMENT
1 WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHMTS 3-4-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

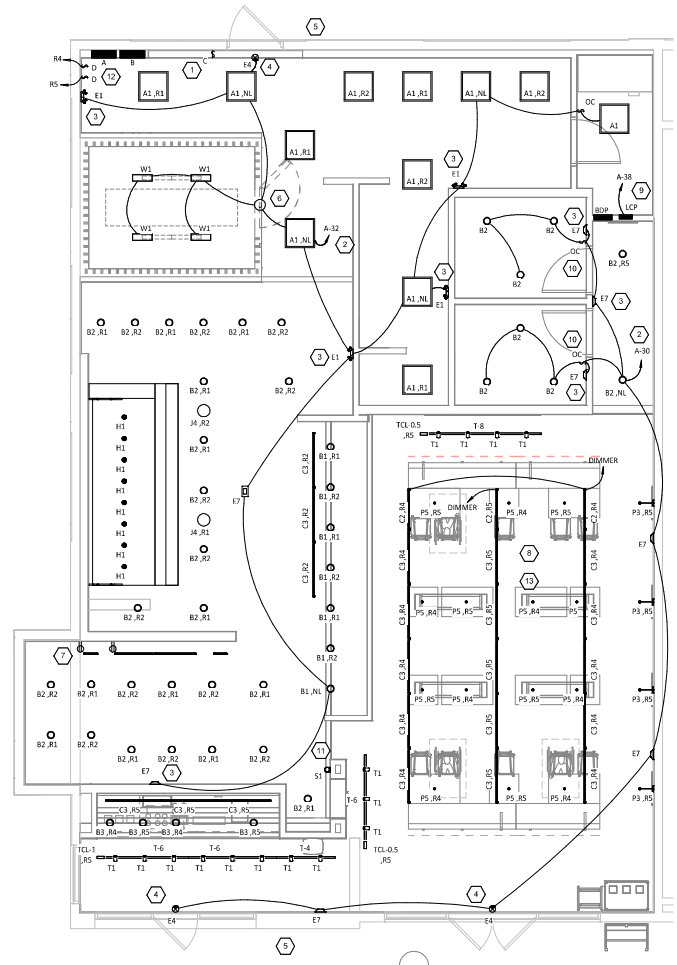
LIGHTING FIXTURE SCHEDULE

TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	12	2x2 LED LENSED TRAFFER	LAY-IN	TLS	GC	NORA LIGHTING	NP0BL-E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHC-602AATFL WITH NIM-57W/M1 T9m	(1) 17W ECOSYSTEM PAR30C 17-GU24-27K-25D LED (25'-27000K) W/ GU 24 BASE	120	17	
B2	34	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHC-602AATFL WITH NLCC3C-65130AW LED TRIM	INTEGRAL 3000K LED	120	17	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHC-602AATFL WITH NLCC3C-6512788 LED TRIM	INTEGRAL 3000K LED	120	12	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
C2	5	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
C3	21	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
E1	4	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXTRONIX	LED 90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXTRONIX	CLED-U-WH	(1) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	8	EMERGENCY LIGHT	VARIOUS	TLS	GC	DUAL-LITE	EV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
H1	8	HOOD LIGHT	SURFACE	TLS/TLS	TLS	MAJOR PROOF LIGHT	FURNISHED WITH HOOD	(1) TCP 116A19K1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	SURFACE	TLS	GC	BARNLIGHT	BL-C-RT10-ASH-100-5BK-100-CAW	GREEN CREATIVE-9A1910KM/937/GU24/R	120	9	WITH BLACK LAMP SHADE, BLACK CORD, AND OAK LAMP HOLDER
P3	4	ACCENT LIGHT - ARTWORK LIGHT	WALL	TLS	GC	H-LITE MFG. CO.	H-CW2700-B	(1) 12W ECOSYSTEM PAR30 LED	120	12	
P5	14	PENDANT	SURFACE	TLS	GC	H-LITE MFG.	H-LC-91/CB12-91/20W LBL	TOP #G2154022CCFL	120	5	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	TLS	GC	FEDERAL SIGNAL	SIM500 W/ SIMBW-012-024	INTEGRAL	16	0	SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00311)
T1	15	TRACK HEAD	TRACK	TLS	GC	JUNO	BL05L 30K 90CRI PDRM WFL RL	INTEGRAL LED	120	10	BLACK CHENIERE TRACK HEAD W/ UNIVERSAL LOW TRAC ADAPTER AND WIDE FLOOD BEAM
T-4	1	TRACK (4 FEET)	SURFACE	TLS	GC	JUNO	T-4FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
T-6	3	TRACK (6 FEET)	SURFACE	TLS	GC	JUNO	T-6FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
T-8	1	TRACK (8 FEET)	SURFACE	TLS	GC	JUNO	T-8FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
TCL-0.5	2	CURRENT LIMITER (60W)	SURFACE	TLS	GC	JUNO	TCLPM11 BL W/ TCLCB 0.5A	N/A	120	0	BLACK CURRENT LIMITING END FEED BLACK
TCL-1	1	CURRENT LIMITER (120W)	SURFACE	TLS	GC	JUNO	TCLM11 BL W/ TCLCB 1A	N/A	120	0	BLACK CURRENT LIMITING END FEED
W1	4	WIC LED FIXTURE	SURFACE	WCS	GC	FURNISHED WITH WIC	FURNISHED WITH WIC	INTEGRAL LED	120	29	WET-RATED COOLER FIXTURE

LIGHTING FIXTURE SCHEDULE NOTES
 A. FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTURE ARE TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED. PHILIPS FLUORESCENT LAMPS WILL BE AN ACCEPTABLE ALTERNATE.
 B. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHTING LOCATIONS.
 C. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

- INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710
- FOR UNCIRCLED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
- WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
- VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
- EXISTING EXTERIOR EMERGENCY LIGHT IS THIS LOCATION.
- INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNWITTED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE WIC.
- PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET 2700 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.
- PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL, TYPICAL.
- INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710
- INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A 15 MIN TIME OR 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
- INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 52" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
- CONNECT DINING ROOM (RELAY CIRCUITS R4, R5) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.



LIGHTING FLOOR PLAN
 1/4" = 1'-0"

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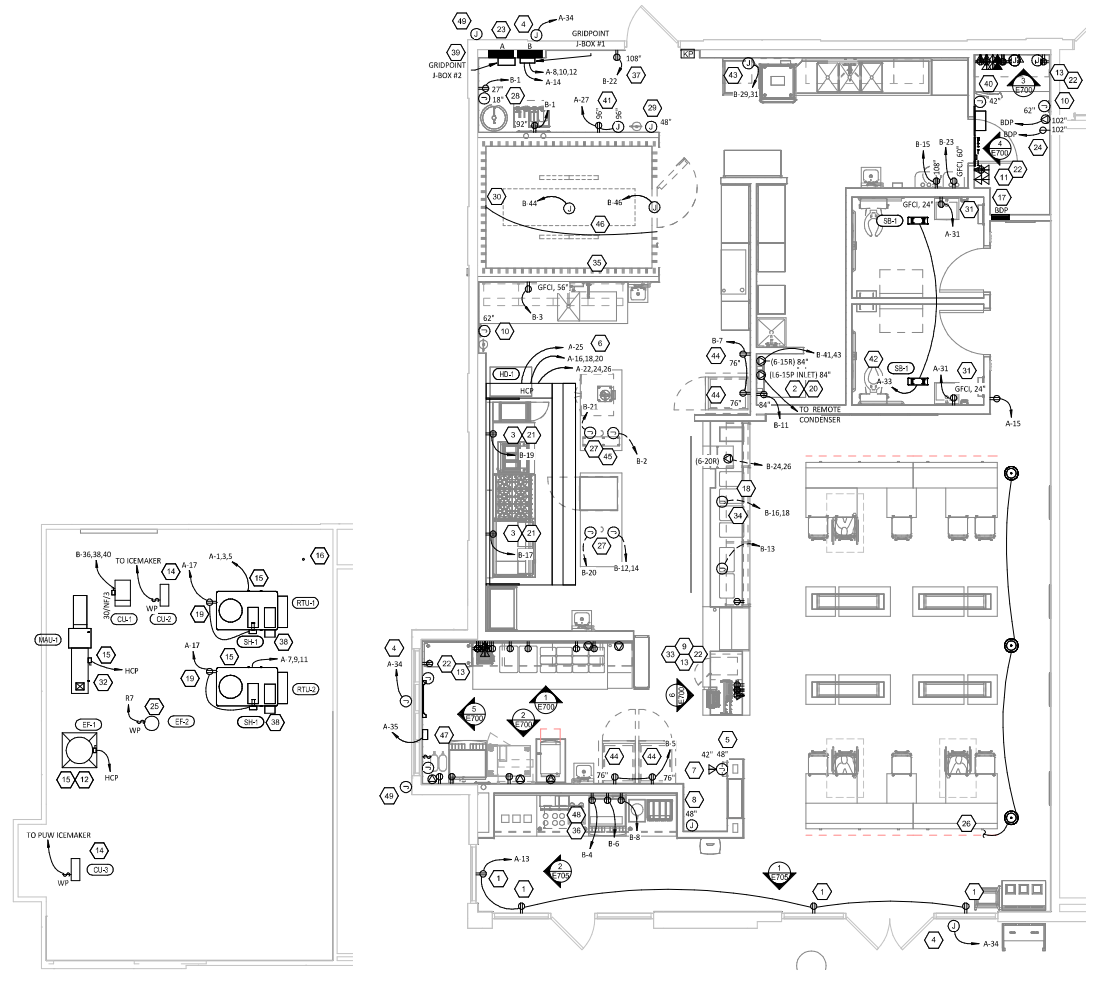
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Drawn: _____ Checked: _____
 JJE CJK

Project No: 2301132

ELECTRICAL POWER PLAN NOTES

1. SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700.
2. ICE MACHINE ELECTRICAL TRAIL. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE 1/2" FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 6-15P END AND ONE WITH 1/2" END. FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
3. CONNECT RECEPTABLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTABLES ARE DE ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
4. JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/7710.
5. PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREEN THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHAL PRIOR TO ROUGH-IN.
6. HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. PROVIDE SINGLE GANG J-BOX FOR DATA JACKS AS SHOWN FOR KRONOS TIME CLOCK.
8. PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPHIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
9. COORDINATE DATA POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN. PROVIDE ROUGH-IN FOR LAUNCHPOINT AS NOTED. LAUNCHPOINT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/2" DEEP OCEAN J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
10. PROVIDE AN EMPTY 1" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
11. PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE SYSTEM IS INSTALLED.
12. AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTABLES AT THE FAX LINE, POS, AND OFFICE.
13. PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.
14. UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
15. PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL ROOSTER.
16. INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.
17. ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
18. ROOF/TOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
19. ICE MAKER RECEPTABLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
20. PROVIDE VERTICAL METAL OR CAST WEATHERPROOF WIRE IN USE OUTLET COVER ON RECEPTABLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MYD FOR SINGLE GANG BOXES AND WP1030MYD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
21. LABEL BATTERY-PROTECTED RECEPTABLES "BATTERY PROTECTED; DISCONNECT AT PANEL BDP".
22. LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTABLES IN USE. DISCONNECT AT PANEL BDP".
23. PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.
24. CONNECT RESTROOM AERATOR 1/4" TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).
25. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER TON/TAP SETTINGS TO BE 15 WATTS.
26. PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTABLES IN THREE J-BOXES INTEGRAL TO PREP TABLES FOR UNDERCOUNTER REFRIGERATOR, HOT HOLDING CABINET, AND GENERAL RECEPTABLES.
27. PROVIDE GFCI RECEPTACLE AND J BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
28. PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.
29. INSTALL WALK-IN COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS. SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.
30. PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 3/E710.
31. PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. AND (4) #12, #12 N, #12 G. IN 1" C. FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
32. PROVIDE 4" CONDUITS FROM LOW VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
33. IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
34. PROVIDE POWER WIRING FOR 3-WAY SOLENOID VALVE FOR MAU-1 FREEZE PROTECTION KIT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WIRING DETAILS.
35. LABEL UTENSIL COUNTER RECEPTABLES "TRACTOR BEVERAGE", "ICE MAKER/MSB", AND "SODA FOUNTAIN".
36. LABEL RECEPTACLE "UV INSECT TRAP".
37. INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/7700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU'S SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
38. PROVIDE (2) 10" DIA. JUNCTION BOXES J-BOX #1; J-BOX #2) ON THE WALL ABOVE PANELS/DORS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 6/7710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT 10A/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
39. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.
40. INSTALL WIRED DOOR BUZZER AT 90" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
41. CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
42. PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
43. PROVIDE RECEPTACLE FOR 2-DOOR AND/OR 1-DOOR REFRIGERATOR WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.
44. PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE. SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
45. INSTALL VEHICLE DETECTOR AS NOTED. PROVIDE BY T/S SURFACE MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.
46. PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
47. PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.



POWER ROOF PLAN
1/8" = 1'-0"

POWER FLOOR PLAN
1/8" = 1'-0"

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Issue Record	Permit Set
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Drawn	Checked
JEJ	CIK

Project No:
2301132

ELECTRICAL POWER PLAN


Panel Name: BOP		Volts: 120		Mains: LUGS	
Mounting: Recessed		Phases: 3		Wires: 2	
Enclosure: Type 1		Ampereage: 20 A			

Ckt	Circuit Description	Trig	Poles	Load
1	POS	15 A	1	0.2 kVA
2	DM - POS	15 A	1	0.2 kVA
3	DM - COVERSING SYSTEM	15 A	1	0.2 kVA
4	OFFICE - SECURITY SYSTEM	15 A	1	0.2 kVA
5	OFFICE - COMPUTER	15 A	1	0.6 kVA
6	OFFICE - DVR/SP	15 A	1	0.5 kVA
Total Load:				2.5 kVA
Total Amps:				18 A

VOLTS: 208/120V Wye															
PHASES: 3															
WIRES: 4															
ENCLOSURE: Type 1															
MOUNTING: Recessed															
PANEL: A															
MAINS: LUGS															
AMPERAGE: 400 A															
MCB RATING: 63 A															
CKT #	DESCRIPTION	C/B	#	PLS	NOTES	LOAD [A]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]
1	POS		1												
2	DM - POS		1												
3	DM - COVERSING SYSTEM		1												
4	OFFICE - SECURITY SYSTEM		1												
5	OFFICE - COMPUTER		1												
6	OFFICE - DVR/SP		1												
PHASE TOTAL [kVA]:						36.7 kVA	36.1 kVA	36.3 kVA							
PHASE TOTAL [AMPS]:						306 A	301 A	303 A							
TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
A	INTERIOR LIGHTING	2 kVA	125.00%	2 kVA	TOTAL CONNECTED kVA: 107 kVA										
B	EXTERIOR LIGHTING	1 kVA	125.00%	1 kVA	TOTAL CONNECTED AMPS: 107 A										
C	COMFORT COOLING	12 kVA	100.00%	12 kVA	TOTAL ESTIMATED kVA: 90.6 kVA										
D	COMFORT HEATING	4 kVA	100.00%	4 kVA	TOTAL ESTIMATED AMPS: 251 A										
E	MISC. MOTION	5 kVA	100.00%	5 kVA											
F	RESERVED EQUIPMENT	26 kVA	60.00%	16 kVA											
G	RECEIPTACLES	6 kVA	100.00%	6 kVA											

VOLTS: 208/120V Wye															
PHASES: 3															
WIRES: 4															
ENCLOSURE: Type 1															
MOUNTING: Recessed															
PANEL: B															
MAINS: LUGS															
AMPERAGE: 400 A															
MCB RATING: 63 A															
CKT #	DESCRIPTION	C/B	#	PLS	NOTES	LOAD [A]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]	LOAD [VA]
1	POS		1												
2	DM - POS		1												
3	DM - COVERSING SYSTEM		1												
4	OFFICE - SECURITY SYSTEM		1												
5	OFFICE - COMPUTER		1												
6	OFFICE - DVR/SP		1												
PHASE TOTAL [kVA]:						18.4 kVA	18.0 kVA	18.7 kVA							
PHASE TOTAL [AMPS]:						157 A	150 A	157 A							

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Drawn	Checked
JEJ	CIK

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Comments:

ELECTRICAL SCHEDULES

E600