

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ASHRAE 1.5.
- C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
- D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of substantial completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
  - 1. Refer to Rooftop Mounting/Coiling Unit Schedules on drawing M600 for capacities, and manufacturers.
- B. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
- C. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
- D. Condenser Fans: Direct drive propeller.
- E. Refrigerant Coils: Aluminum fins and copper coil.
- F. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
- G. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutoff, and forced draft proving switch.
- H. Economizer controls: (Comparative Enthalpy, 100% capacity).
- I. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
- J. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
- K. Roof curb.
- L. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
- M. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units level and plumb and firmly anchored.
- B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
- C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
- D. Control units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15800 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data for fire and smoke dampers.
- B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
- C. Comply with NFPA 90B for systems serving spaces in 1 or 2 Family dwellings or serving spaces less than 25,000 cu. ft.
- D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
- E. Comply with UL 181 and UL 181A for ducts and closures.
- F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS

- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/G92
  - 1. Basis of Design: Manufacturers: Louisa SP/Ducts, alternatives to the basis of design must be submitted for review.
  - 2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
- B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- C. Duct Liner: ASTM C 1191, Type 1, with an airseam surface coated with a temperature resistant coating. Thickness: 1/2 inch. Profile: S.
  - 1. Adhesive: ASTM C 916, Type 1.
  - 2. Mechanical Fasteners: Convulsed steel pin, length as required to penetrate liner plus 1/8 inch projection maximum into the airseam.
- D. Joint and Seam Tape: Comply with UL 181A.
- E. Joint and Seam Sealant: Comply with UL 181A.
- F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standards" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES

- A. Volume Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation. (a value 1/4 around a continuous liner liner).

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- C. Avoid passing through electrical equipment spaces and enclosures.
- D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- F. Install liner and/or insulation on ductwork per the material schedule on sheet M600.
- G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- I. Install flexible links in fire dampers.
- J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
- B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- C. The balance agent is to balance airflow within distribution systems, including submain, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -0+10%.
- D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15800

SECTION 15885 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- A. All air terminal devices:
  - 1. Refer to Grilles, Registers, and Diffusers Schedule for equipment schedule
  - 2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
  - 3. Material: As scheduled.
  - 4. Finish: As scheduled.
  - 5. Mounting: As scheduled.

3.1 EXECUTION

3.1 INSTALLATION

- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15885

HVAC GENERAL NOTES

- A. GENERAL NOTES APPLY TO HVAC SYSTEMS.
- B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVALING CODES.
- C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT SIZES GREATER THAN 45" SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45" OR LESS SHALL BE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
- K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSIONS, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHICH WITH BLACK LETTERING) FURNISHED BY TSV.
- M. PROVIDE F800 1.2 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

Consult:



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HVAC SPECIFICATIONS

M010

HVAC MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
DUCT	EXPOSED GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN, NO EXPOSED DUCT SEALING MASTIC
	CONCEALED SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
DUCT	CONCEALED RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED GEN. EXHAUST	RECT. OR ROUND AS SHOWN
DUCT	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)

HVAC ABBREVIATIONS

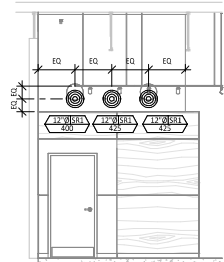
- AIF ABOVE FINISHED FLOOR
- AKF ABOVE FINISHED GRADE
- CD CEILING DIFFUSER
- CU CONDENSING UNIT
- EE EXHAUST
- EF EXHAUST FAN
- FR EXHAUST REGISTER
- EXTC EXTERIOR
- HD HOOD
- MUM MAKEUP AIR UNIT
- OSD BLADE DAMPER
- RG RETURN GRILLE
- RTU ROOFTOP UNIT
- SR SUPPLY REGISTER
- VS VARIABLE SPEED CONTROL
- COZAS TENANT'S CO2 ALARM SUPPLIER
- GC GENERAL CONTRACTOR
- HE TENANT'S HVAC EQUIPMENT SUPPLIER
- HS TENANT'S HOOD SUPPLIER
- YES TENANT'S KITCHEN EQUIPMENT SUPPLIER
- TAB TENANT'S TEST AND BALANCE VENDOR
- TCC TENANT'S CABLING CONTRACTOR
- TDC TENANT'S DUCT CLEANER
- TMS TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
- TLS TENANT'S LIGHT/LAMP SUPPLIER
- TMB TENANT'S MENU BOARD SUPPLIER
- TNS TENANT'S MILLWORK SUPPLIER
- TP TENANT'S PHONE SUPPLIER
- TPS TENANT'S PANELBOARD SUPPLIER
- TRS TENANT'S RAILING SUPPLIER
- TSV TENANT'S SIGN VENDOR
- TST TENANT'S TV SANITIZER SUPPLIER
- WCS TENANT'S WALK-IN COOLER SUPPLIER
- WHS TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

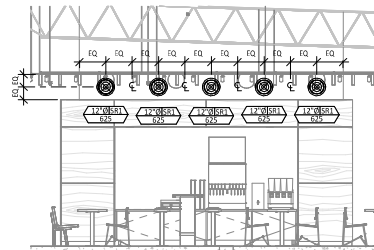
- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN GRILLE
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR
- MOTOR-OPERATED DAMPER
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- GRIDPOINT THERMOSTAT
- GRIDPOINT ZONE SENSOR MODULE
- GRIDPOINT SUPPLY PROBE
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION
- AUDIBLE/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- GRILLE, REGISTER, OR DIFFUSER TAG: TAG, NECK SIZE, AIRFLOW (CFM)

### HVAC PLAN NOTES

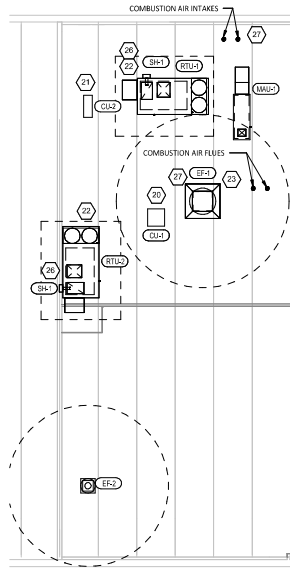
- 1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- 2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.
- 3 REFER TO ARCHITECTURAL SHEETS FOR SUPPLY REGISTER ELEVATIONS AND LOCATIONS.
- 4 26/20 DUCT UP FOR TRANSITION 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 26/18 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 26/20 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 7 26/20 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 24/10 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 10 8/8 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 IRON 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/ET10.
- 14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/ET10.
- 15 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/ET10.
- 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/ET10.
- 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/ET10.
- 18 INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" 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 CLEAROUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. 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 MAKER 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/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIRGOGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN EF-1.
- 24 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 2/M700. 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 TYV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL LV 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.
- 27 MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER FUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 20" CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FUELE AND COMBUSTION AIR TERMINATIONS.
- 28 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.



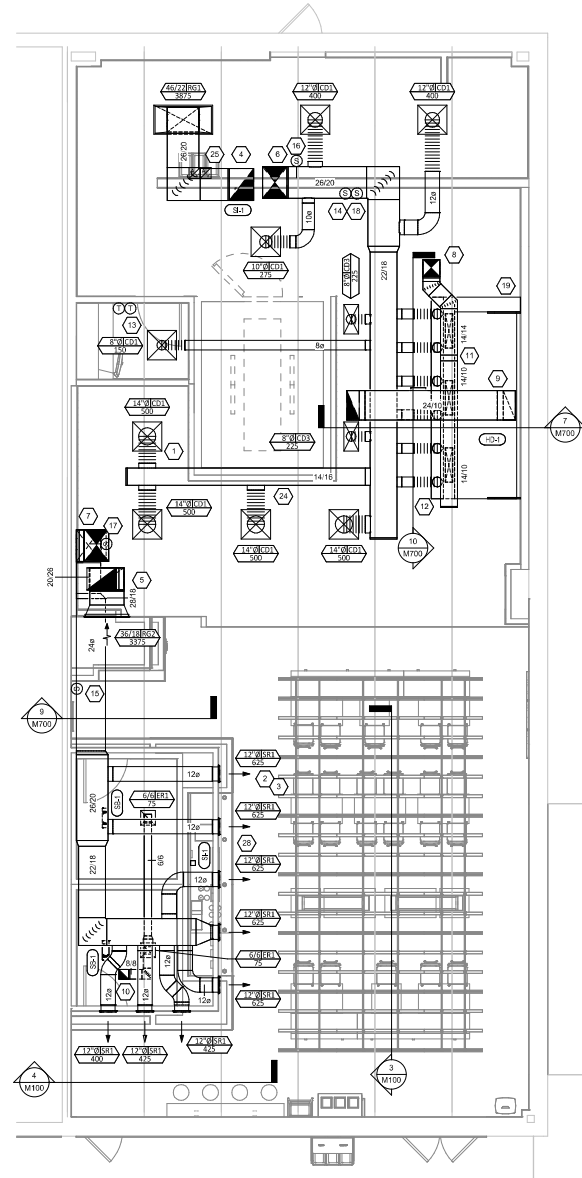
**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC DINING ROOM SECTION**  
1/4" = 1'-0"



**HVAC ROOF PLAN**  
1/8" = 1'-0"



**HVAC FLOOR PLAN**  
1/4" = 1'-0"

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FOR CONSTRUCTION

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Contents:  
HVAC PLAN

M100

### 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"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	432DA TYPE L	PROVIDE INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	432DA TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	433DR TYPE S	PROVIDE INTEGRAL OBD
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	433DR TYPE L	
RG2	0" FIXED BLADE RETURN GRILLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	SLEF	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-12	PROVIDE FACE ACCESSIBLE OBD

### SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLER	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	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION
SI-1	2	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-9 GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION

### VIROGUARD SCHEDULE

TAG	QUANTITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN
VG-1	1	HURRICANE RATED VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DULI80HFA	TDC	GC	ENVIRONMENTAL

### 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-WG	400	2	480/3/60	HS	GC	CAPTIVE-AIRE	DULI80HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.60 IN-WG	300	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

### MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW		HEATING CAPACITY				APPROXIMATE WEIGHT [LBS]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [IN. W.C.]	INPUT [MBH]	OUTPUT [MBH]	MAXIMUM TURNDOWN	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	MAKEUP AIR UNIT	1300	0.80	225	220	12.5:1	11 °F	650	1 HP	480/3/60	HS	GC	CAPTIVE-AIRE	A1-D-250-15D	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

### 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	
CJ-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-488A	9.9	200	15 A	7.2 A	208/3/60	WCS	GC	EVERIDGE	RFD130E48EA	FURNISHED WITH WALK-IN COOLER
CJ-2	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.]	NO.	WIDTH	LENGTH	LENGTH	WIDTH	SP [IN. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	AIRFLOW [CFM]	DUCT COLLARS	DIAMETER	NUMBER OF LIGHT FIXTURES		APPROXIMATE WEIGHT [LBS]	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL				
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°	2550	0.97	1	10"	24"	12'-9"	4'-3"	0.1	13'-9"	19"	1300	3	6"	28"	700	6	8"	8	1100	HS	GC	CAPTIVE-AIRE	S424-ND-2-ACPSF-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, 24V GAS VALVE, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 15" TALL HE SS FILTERS, INTEGRAL UTILILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY 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] / [MBH]	COND. EAT [DEG. F] / [MBH]	INPUT [MBH]	OUTPUT [MBH]	EAT [DEG. F]						MOCP	FLA	V/P/H			MANUFACTURER	MODEL		
RTU-1	KITCHEN ROOFTOP UNIT	12.5	12.2	4375	500	0.8	147	73	76	67	100	180	146	61	2	2	R-454B	7.9/7.9	1500	40 A	34.0 A	460/3/60	HES	GC	YORK	KJ150	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, 14" O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	12.5	12.2	4375	1000	0.8	152	78	79	69	100	240	192	56	2	2	R-454B	7.9/7.9	1500	40 A	34.0 A	460/3/60	HES	GC	YORK	KJ150	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, 14" O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE

### VENTILATION SCHEDULE

SPACE	AREA (OUTSIDE AIR)		PEOPLE (OUTSIDE AIR)		AREA (EXHAUST)			FIXTURE (EXHAUST)			MIN CFM (OUTSIDE AIR)		CFM OIL		MIN CFM (EXHAUST)		CFM						
	AREA	CFM/SF	CFM	PEOPLE/ 1000 SF	PEOPLE	CFM/ PERSON	CFM	AREA	CFM/SF	CFM	FIXTURE	CFM/ FIXTURE	CFM	SUBTOTAL	EFFECT	MIN CFM REQUIRED		MIN CFM PROVIDED					
DINING RM	900	0.18	162	70	63	7.5	473	N/A	N/A	N/A	N/A	N/A	635	0.8	794	1000	N/A	N/A	N/A	N/A			
KITCHEN	960	0.12	115	20	19	7.5	144	960	0.7	672	N/A	N/A	N/A	259	0.8	324	475	672	0.8	840	1250		
OFFICE	40	0.06	2.4	5	1	5	5	N/A	N/A	N/A	N/A	N/A	7.4	0.8	9.25	25	N/A	N/A	N/A	N/A			
RESTROOMS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	50	100	N/A	N/A	N/A	N/A	100	0.8	125	150

NOTES:  
 1. VENTILATION RATE LISTED REGARDS EXHAUST AIR QUALITY.  
 2. EXHAUST RATE IS BASED ON CONTINUOUS FAN OPERATION.  
 3. VENTILATION RATES WORK DERIVED FROM TABLE 4.0.3.1.2 IN THE 2021 IMC.

### AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	2550	-2550
EF-2	0	0	150	-150
MAU-1	1300	0	0	1300
RTU-1	4375	3875	0	500
RTU-2	4375	3375	0	1000
Net Pressurization [CFM]				100

### CONTROL FUNCTIONS

- A. THE MAIN COOKING EXHAUST FAN AND MAKEUP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. 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.
- C. THE THERMOSTATS SHALL BE PROGRAMMED TO MAINTAIN SET POINTS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.



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Issue Record:  
 01/24/2025 ISSUE FOR PERMIT  
 04/23/2025 ISSUE FOR CONSTRUCTION

Drawn: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 AJJ MPC

Project No.: 2401198

CHANGES  
 HVAC SCHEDULES  
**M600**



SECTION 1506 - 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 SUPPLYING DEVICES
A. Hanger and Pin Assemblies: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Inverted-actuated pipe, 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 sag and bends.
B. Install fittings for changes in direction and branch connections.
C. Install 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 wall sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Install vents adjacent to each valve and at final connection to each piece of equipment.
G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Install 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. Install building attachments within concrete or structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and all changes in direction of piping.
B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Install 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: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 1506

SECTION 1508 - 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 foam insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install 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 for 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 penetrations through fire rated walls and partitions. Seal around penetration with through-penetration firestop systems.
I. 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.
J. 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, 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: R5a compliant pre-formed insulation.
END OF SECTION 1508

SECTION 1510 - 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, 400 psi WOG 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 120 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, Y-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 easy support where necessary.
C. Install accessible valves for each fixture and item of equipment.
D. Install valves in horizontal piping with stem at or above center of pipe.
E. Install valves in a position to allow full stem movement.
F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
END OF SECTION 1510

SECTION 1514B - 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 PIPES AND TUBES (See Material Schedule on sheet P103 for where these materials are to be used)
A. Heavy Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
2.2 FITTINGS
A. Wrought Copper, Solder Joint Pressure Fittings: ASTM B 16.32.
B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASTM B 16.18.
C. Bronze Fittings: ASTM B 16.24, Classes 150 and 300.
D. Copper Unions: ASTM B 16.28, 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: ASTM B16.51
2.3 JOINING MATERIALS
A. Solder: Fillet Metal: ASTM B 32, lead free.
B. Braze/Filler Metal: AWS A5.8, alloy to suit system requirements.
C. Solvent Cement: As recommended by manufacturer.
D. Plastic Pipe Seal: ASTM F 477, elastomeric gasket.
PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Install gate or ball valves in inlet to each plumbing equipment room, on each supply to each plumbing fixture not having traps on supplies, and elsewhere as indicated.
C. Install 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. Install swing check valve in discharge side of each pump and elsewhere as indicated.
E. Install ball valves in each hot water circulating top and discharge side of each pump.
3.2 PIPING INSTALLATIONS
A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.
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 1514B

SECTION 1515B - 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 PIPES AND TUBES
A. PVC Plastic, Wall 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 pipe; drain, waste, and vent pipe fittings.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.2 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 1515B

SECTION 1518B - NATURAL GAS PIPING

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Quality Assurance: Comply with NFA 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:
a. Installable Iron Threaded Fittings: ASTM B16.3, Class 150.
b. Cold Press Mechanical Joint Fitting System: Vigas Megafit
C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
D. Gas Stops: ASA certified, brass-body, plug type with bronze plug, for 1/2 and 3/4 inch nominal gas. Include ASA stamp, flat or square head or lever handle, and threaded ends complying with ASME B1.20.1.
E. Gas Valves: 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 Connections: ANSI Z21.24, copper alloy.
I. Strainers: Bronze body, Y-pattern, full size of connecting piping. Include stainless-steel screens with 1/164 inch perforations and a pressure rating of 125-psi; 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 or in affected piping section.
B. Install shut-off valve, downstream from gas meter, outside building at gas service entrance.
C. Install gas stops for shut-off to appliances with NSF 71 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 cleaning and emptying. Do not install where condensate would be subject to freezing.
E. Install gas piping at uniform slope of 0.1 percent upward toward risers.
F. Connect branch piping from top of 1/2 inch of horizontal piping.
G. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
H. Install valves in accessible locations, protected from damage.
I. Install gas 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. Install gas valve upstream from and within 36 inches of each appliance using gas. Install 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 1518B

SECTION 1540 - 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.
3. Porcelain Enameled Fixtures: ASME A112.19.4M.
4. Slip Resistant Bathing Surfaces: ASTM F 462.
5. Stainless Steel Fixtures: ASME A112.19.3M.
6. Vitreous China Fixtures: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 Refer to the fixture schedule on drawing P100
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. Install 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 where 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 grade.
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 to conceal, finished locations and within cabinets and millwork. Use drop pattern enclosures where required to conform to project plumbing code fittings.
M. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation 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 1540

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 spacers, and fasteners; fabricated of similar materials and design 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 BEERS, DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
E. PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FUTURE.
F. INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND LISTED R/F/DO'S.
G. PROVIDE TEAM 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 GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE PIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
K. PLUMBING FITTINGS, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
L. PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BEELS, BREAKS AND BEERS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
M. 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, UNPACKING, 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.
N. 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.
O. PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
P. INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILING IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAV-IN CEILING.
Q. PERFORM A FLOW TEST ON THE DOMESTIC WATER SERVICE AT POSSESSION; IF THE STATIC WATER PRESSURE IS OVER 80 PSI THEN COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER TO PROVIDE A PRESSURE REGULATOR (WATTS LFUSB 23 OR EQUAL). PROVIDE RESULTS OF THE FLOW TEST TO THE ENGINEER FOR CONFIRMATION OF ADEQUATE CAPACITY.

PLUMBING SYMBOLS

Table with 2 columns: Symbol and Description. Symbols include ELBOW UP, ELBOW DOWN, DOMESTIC COLD WATER, DOMESTIC FILTERED COLD WATER, DOMESTIC SOFTENED COLD WATER, DOMESTIC HOT WATER (120 DEGREES), DOMESTIC HOT WATER RECUR, GAS, GAS (ON ROOF), SANITARY WASTE, GREASE WASTE, SANITARY VENT, CONDENSATE DRAIN, REDUCED PRESSURE ZONE BACKFLOW PREVENTER, WATER METER, GAS METER, EQUIPMENT TAG, FLOOR DRAIN, FLOOR SINK, CLEANOUT.

PLUMBING ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AHF, AFG, AXC, EXT, FCO, FFD, GRC, CO2AS, GEN, HES, HS, KES, TCC, TDC, TMS, TMB, TMS, TP, TPS, TSS, TSV, WCS, WHS.

PLUMBING MATERIAL SCHEDULE

Table with 3 columns: Category, Application, Allowable Material. Categories include WATER SUPPLY PIPE, NATURAL GAS PIPE, and SANITARY WASTE & VENT PIPE. Applications range from ABOVE GRADE to BELOW GROUND.

Chipotle Mexican Grill logo and contact information: 4635 Truman Blvd, Suite 250, Hilliard, Ohio 43026. Phone: (614) 751-9610. Fax: (614) 552-5240. Contact: Andy Janosik (614) 238-2028. ajanosik@nationalengineering.com

FOR CONSTRUCTION

PROFESSIONAL SEAL INFORMATION: NATIONAL ENGINEERING CONSULTANTS, INC. REGISTERED PROFESSIONAL ENGINEERS IN OHIO, PENNSYLVANIA, AND MISSOURI. REGISTERED PROFESSIONAL DESIGNERS IN OHIO, PENNSYLVANIA, AND MISSOURI. REGISTERED PROFESSIONAL ARCHITECTS IN OHIO, PENNSYLVANIA, AND MISSOURI. REGISTERED PROFESSIONAL LANDSCAPE ARCHITECTS IN OHIO, PENNSYLVANIA, AND MISSOURI.

STORE NO.: 5649, PERRING, MD 1991 E JOPPA RD, BALTIMORE, MD 21224

Permit application form with fields for Date Received, Issue for Permit, Issue for Construction, and Project No. (240139).

PLUMBING SPECIFICATIONS

P010

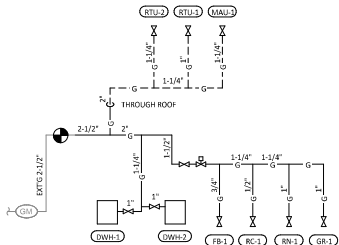
**PLUMBING FIXTURE SUPPLY CONNECTIONS**

ROUGH-IN TYPE KEY						
ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)					
ANGLE 1/2"	BRASS CRAFT R83X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)					
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLED STOP WITH 3/4" FIP INLET AND OUTLET)					
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE					
HOSE 1/2"	ARROWHEAD BRASS WMSOF OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)					
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.					
TAG	FIXTURE	CONNECTION SIZES	ROUGH-IN TYPE	FIXTURE UNITS (EACH)	COUNT	FIXTURE UNITS (TOTAL)
		CW	HW	CW	HW	TOTAL
BP-1	BPZ BACKFLOW PREVENTER	1/2"		DIRECT	1	1
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	1/2"	1/2"	HOSE 1/2"	0	1
ET-1	EXPANSION TANK	3/4"		DIRECT	0	0
HB-1	HOSE BIBB	1/2"	1/2"	MIP	1.5	1.5
HS-1	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1.5	1.5
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5
IM-1	ICE MAKER - BORN	1/2"		HOSE 1/2"	1	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1	1
MB-1B	MOP BASIN FAUCET	1/2"	1/2"	MIP	2.25	2.25
PF-1	POT FILLER	1/2"		MIP	1.5	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	4	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	5	5
WH-1	FROST PROOF WALL HYDRANT	3/4"		DIRECT	1	1
WS-1	WATER SOFTENER	1"		DIRECT	0	0
						46

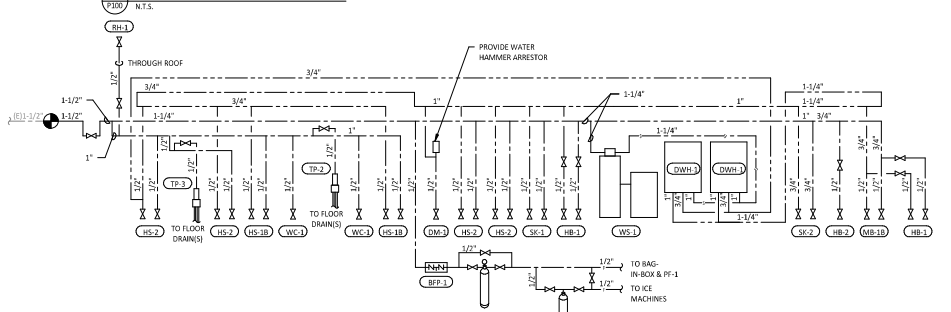
**CONNECTED GAS LOAD**

FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	60
WATER HEATER	DWH-2	199	60
GAS FRYER	FB-1	90	85
GRIDDLE	GR-1	170	100
MAKEUP AIR UNIT	MAU-1	225	80
RICE COOKER	RC-1	33	90
RANGE	RN-1	192	95
KITCHEN ROOFTOP UNIT	RTU-1	180	65
DINING ROOM ROOFTOP UNIT	RTU-2	240	70
Grand Total		1478	MAX: 235

- NOTES:  
 1. PRESSURE REQUIRED AFTER METER: 7" W.C.  
 2. DISTANCES ARE APPROXIMATE



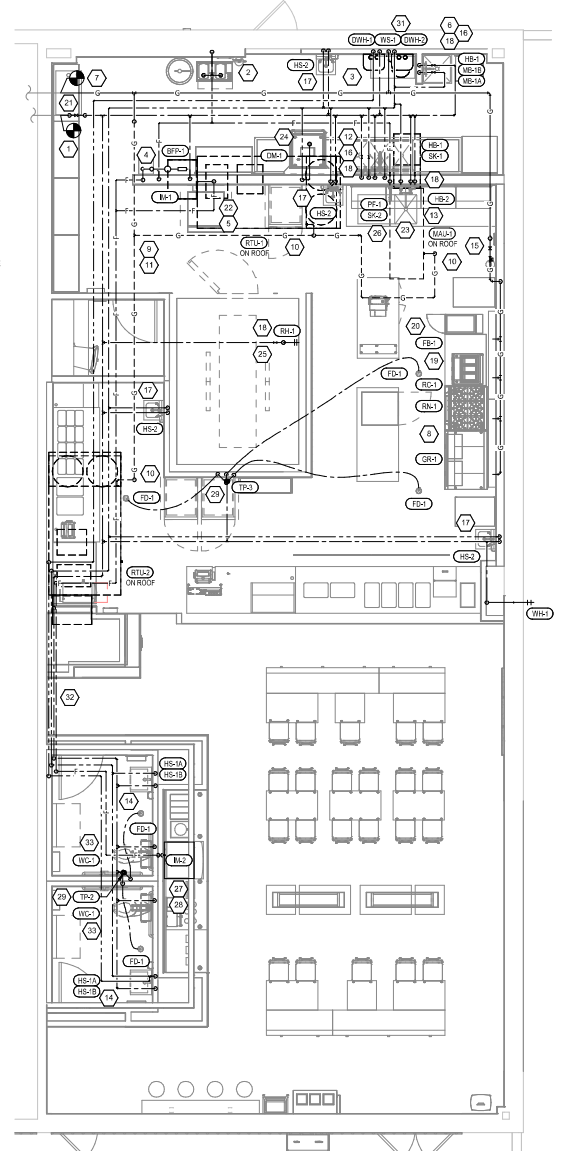
**GAS DISTRIBUTION DIAGRAM**



**PLUMBING SUPPLY DIAGRAM**

**PLUMBING SUPPLY PLAN NOTES**

- CONNECT TO THE EXISTING 1-1/2" DOMESTIC WATER SERVICE.
- PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 102-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
- PROVIDE WATER HEATERS DWH-1 AND DWH-2 PER DETAIL 1/P700.
- PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
- PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 58" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASS/SCRAFT 512-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- CONNECT TO THE EXISTING GAS METER.
- PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 1/P700.
- SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 1/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HS-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE RESTROOM HAND SINK CARRIER IN WALL PER PLUMBING SCHEDULE. INSTALL THERMOSTATIC MIXING VALVE FURNISHED WITH HAND SINK FAUCET SECURED TO WALL BELOW HAND SINK. ALL HAND SINK PIPING AND ACCESSORIES SHALL BE FULLY CONTAINED DIRECTLY BELOW HAND SINK.
- PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
- CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
- PROVIDE ASSE 1016 100# POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS FLUSH-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK. FACTOR MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP TO MIXING VALVE AND FROM MIXING VALVE TO FLOOR USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
- PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
- PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
- PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
- PROVIDE AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING AS SHOWN. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.
- INSTALL REF IMB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
- PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN. MAKE FINAL CONNECTION TO PREP SINK FAUCET USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
- PROVIDE 1/2" HOT WATER TO THE DISH MACHINE AT 66" AFF ABOVE LEFT SIDE OF DISH MACHINE. MAKING FINAL CONNECTION USING HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE.
- PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATED VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE FILTERED DOMESTIC WATER ROUGH-INS FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 42" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASS/SCRAFT 512-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- INSTALL REF IMB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
- PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPING TO FLOOR DRAIN (TRAP PRIMER CONNECTIONS) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAINS.
- PROVIDE WATER SOFTENER AS SHOWN IN DETAIL 16/P700.
- HOLD EXPOSED DOMESTIC WATER PIPES TIGHT TO THE DECK AND TIGHT TO THE DEMISING WALL AS SHOWN. PAINT THE PIPE INSULATION TO MATCH THE ROOF DECK.
- REPLACE STOCK WATER CLOSET HANDLE WITH UNIVERSAL CABLE OPERATED HANDLE (FLUSHMATE AP300503 OR AP300504 - FIELD VERIFY COMPATIBILITY WITH FLUSHMATE SYSTEM IN WATER CLOSET).



**PLUMBING SUPPLY PLAN**

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 PERRING, MD  
 1991 E JOPPA RD  
 BALTIMORE, MD 21234

Issue Record:	01/24/2025	ISSUE FOR PERMIT
	04/23/2025	ISSUE FOR CONSTRUCTION
Drawn:	Check:	
AJJ	MPC	
Project No:	2401198	
Consult:		

**PLUMBING PLAN WATER & GAS**

FOR CONSTRUCTION

PROFESSIONAL SEAL BEARING:  
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 BALTIMORE, MD 21234

Issue Record	Date	Issue For
01/24/2025	ISSUE FOR PERMIT	
04/23/2025	ISSUE FOR CONSTRUCTION	

Revisions	City Comments
1 03.14.25	CITY COMMENTS

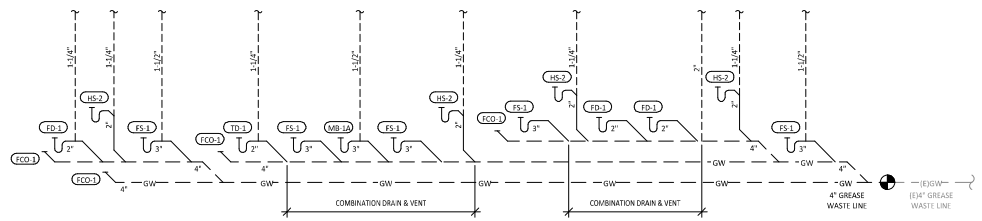
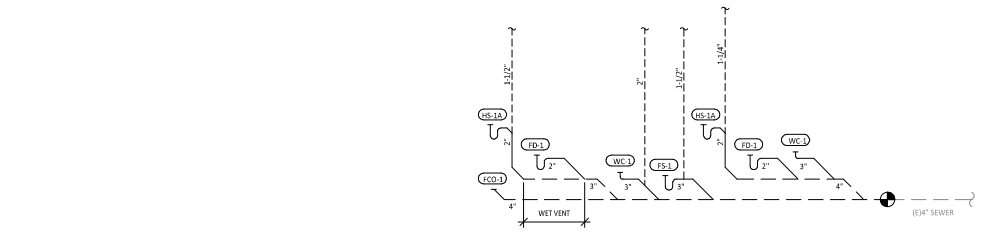
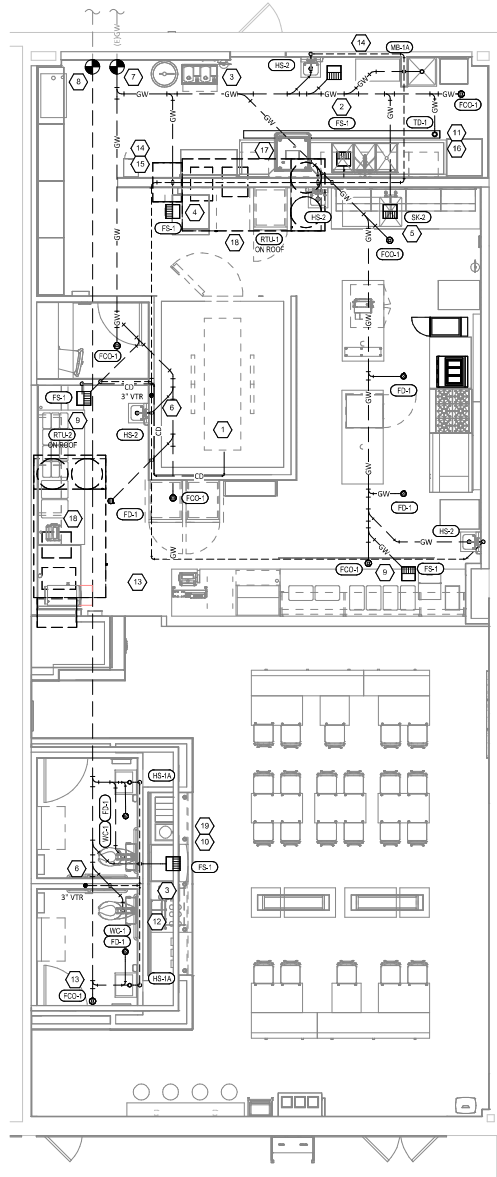
Drawn: Check: AJJ MPC  
 Project No: 2401198  
 Contents:

PLUMBING PLAN  
 WASTE & VENT

P110

**PLUMBING WASTE AND VENT PLAN NOTES**

- PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW THE SML AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" 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 UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL BEHIND SML AT 8" AFF AND BE SECURED TO FLOOR UNDER THE SML.
- PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 12/P700.
- 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.
- 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.
- PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
- CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING DEDICATED 1,000 GALLON GREASE INTERCEPTOR.
- CONNECT TO EXISTING 4" SANITARY SEWER.
- PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
- 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 COOLER.
- 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.
- HOLD HORIZONTAL VENT PIPES ABOVE THE RESTROOM BELOW THE TOP OF THE PLYWOOD BOX ELEMENT. PAINT EXPOSED VERTICAL VENT PIPES TO MATCH THE ROOF DECK.
- 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.
- PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
- PROVIDE DRAIN FROM WATER FILTER BFF TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
- PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.
- INSTALL DRAIN HOSE FURNISHED 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.
- PROVIDE CONDENSATE TRAP ON RTUJ PER DETAIL 13/P700.
- 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.



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

**SANITARY WASTE & VENT PLAN**  
 1/4" = 1'-0"

**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	RPC BACKFLOW PREVENTER	GC	GC	CONBRACO	HAIF-203-72F	LEAD FREE REDUCES PRESSURE MINIMIZES 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		1/2"	3/4"	0	1	1	0	0	1	1	0
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0	0	0	0	0	0	0	0
FCO-1	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	7			4"			0	0	0	0	0	0
FCO-2	FLOOR CLEANOUT (3")	GC	GC	SIOUX CHIEF	852-3PNR	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-J-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	6			2"			0	2	0	0	0	12
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	961-3PLU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	8			3"			0	5	0	0	0	40
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	SILL 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	BREASTROOM HAND SINK	GC	GC	AMERICAN STANDARD	902A.01EC	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1233-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2	0"	0"	2"	0	0	0	1	0	0	0	2
HS-1B	BREASTROOM HAND SINK FAUCET	KES	GC	FURNISHED BY KES	--	METERED FAUCET WITH 0.5 GPM AERATOR AND FURNISHED WITH THERMOSTATIC MIXING VALVE. ADJUST FAUCET FOR 30 SECOND RUN TIME.	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 (STANDARD CAPACITY REMOTE AIR COOLED)	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 (INTEGRAL AIR COOLED)	1	1/2"			1		1		1	0	1	0
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED 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 BRACE.	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	0	1.5	0	1.5	0
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	Z131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"			1	0	1	0	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	rvanes	rvanes	2			2"	0	0	0	2	0	0	0	4
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
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 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
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 GPF, 17 1/8" 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	0	1	0	1	0
WS-1	WATER SOFTENER	KES	GC	CLNO	CFSM1254E	POINT OF ENTRY HIGH CAPACITY WATER TREATMENT SYSTEM	1	1"			0	0	0	0	0	0	0	0
							52				89.25			22.25			46	78

**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	NAVIENT	NPE-240A2	199	354 GPH @ 65° RISE	RATED FLOW RATE: 5.6 GPM @ 67° RISE THERMAL EFFICIENCY: 96%
DWH-2	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVIENT	NPE-240A2	199	354 GPH @ 65° RISE	PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIENT AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIENT.COM TO LOCATE AUTHORIZED DISTRIBUTOR). RATED FLOW RATE: 5.6 GPM @ 67° RISE THERMAL EFFICIENCY: 96%
								PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIENT AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIENT.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

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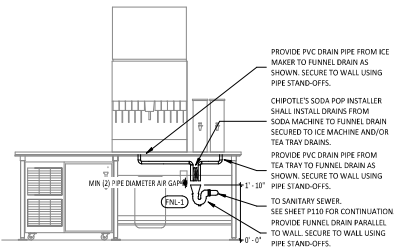
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02/24/2025 ISSUE FOR PERMIT  
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Revisions	Drawn	Checked
	AJ	MPC

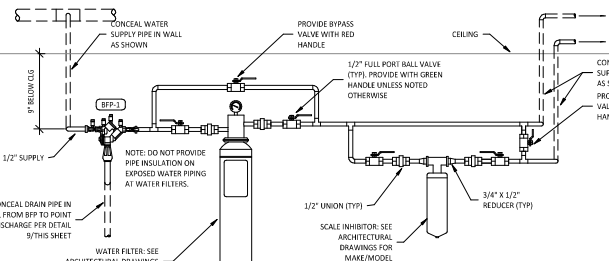
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PLUMBING SCHEDULES

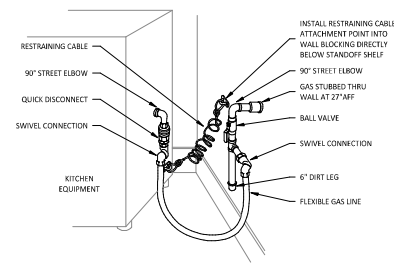
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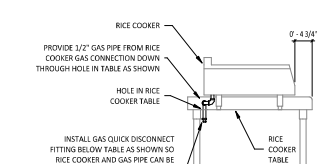
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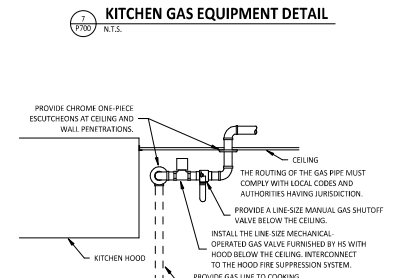
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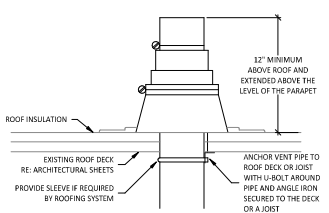
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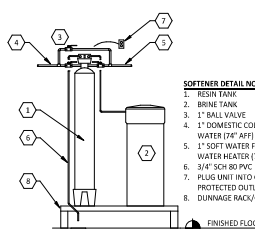
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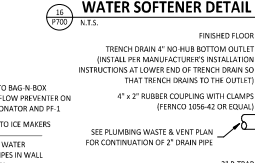
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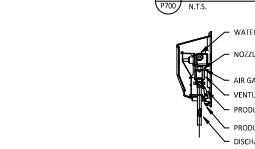
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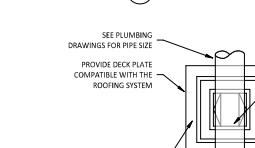
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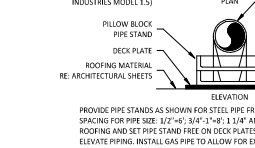
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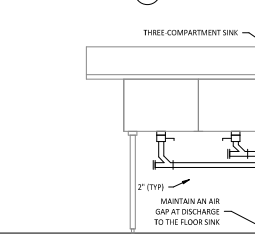
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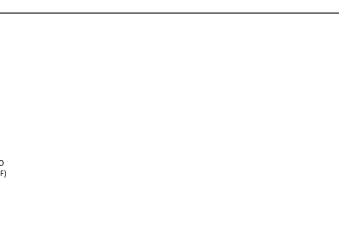
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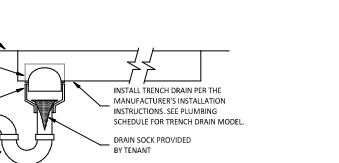
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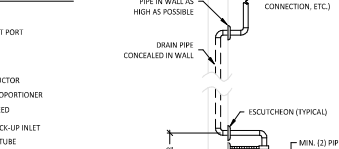
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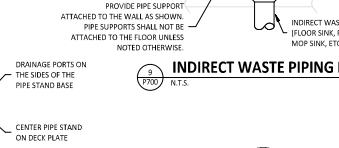
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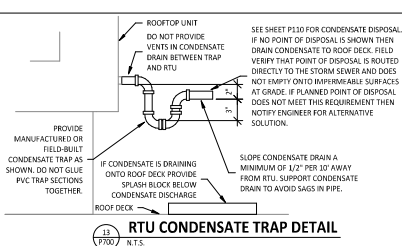
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**PIPE INSULATION DETAIL**  
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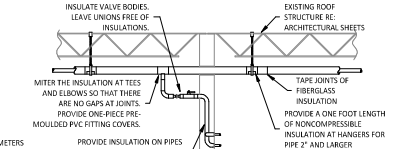
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**WATER HEATER DETAIL**  
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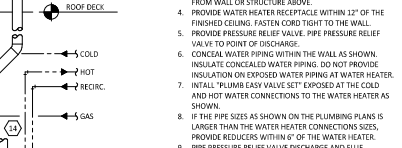
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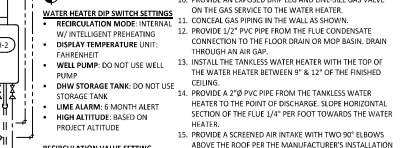
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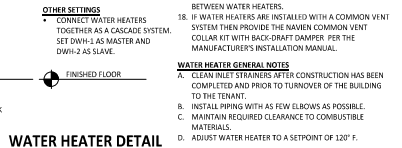
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PLUMBING DETAILS

P700

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE  
PART 1 - GENERAL  
1.1 DEFINITIONS  
A. GFCI: Ground fault current interrupter.  
B. RMS: Root Mean Square  
C. SPT: Single Pole, Double Throw  
1.2 USE GENERAL  
A. General: Cost or use charges for temporary facilities are not chargeable to Tenant, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:  
1. Tenant's construction forces.  
2. Occupants of Project.  
3. Architects.  
4. Engineer.  
5. Testing agencies.  
6. Personnel of authorities having jurisdiction.  
B. Permanent Service: Coordinate with building Tenant and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.

1.3 NOTIFICATION  
A. Coordinate with Tenant to provide 72 hour written notification to other tenants of any temporary interruptions. Notification shall state the estimated time and duration of the electrical outage.  
1.4 QUALITY ASSURANCE  
A. Standards: Comply with ANSI A5D16, NECA's "Temporary Electrical Facilities," and NFPA 70A.  
1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.  
2. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electrical service. Install electric service to comply with NFPA 70.  
3. Comply with OSHA standards and regulations.

PART 2 - PRODUCTS  
2.1 MATERIALS  
A. Electrical Outlets: Properly grounded, NEMA polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets equipped with ground-fault circuit interrupters, reset button, and pilot light.  
B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 120V ac, 20-A amp, and 150-foot (15-m) extension cord may be nonmetallic sheathed cable.  
C. Main panelboard with disconnect.  
D. Temporary lighting.  
E. 120-volt receptacles with overcurrent protection.  
F. Enclosures: NEMA AB 1 and NEMA 1X 1 and NEMA 1X 2 most environmental conditions of installed location.  
1. Outdoor Locations: NEMA 250, Type 3R.

PART 3 - EXECUTION  
3.1 INSTALLATION  
A. Electric Power Services: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period, include meters, transformers, and overload-protected disconnecting means.  
1. Install power distribution wiring overhead and rise vertically where least exposed to damage.  
2. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.  
B. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-to-voltage ratio.  
3. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.  
4. Provide metal conduit enclosures or boxes for wiring devices.  
5. Provide 4-pair outlets, including a 100-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-vac, 20-A circuit for each outlet.  
6. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.  
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.  
2. Provide one 100-watt incandescent lamp (or equivalent) every 50 (15 m) in traffic areas.  
3. Install exterior-vent site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage-visibility when the Work is being performed.  
END OF SECTION 16011

SECTION 16050 - GROUNDING AND BONDING  
PART 1 - GENERAL  
1.1 SUMMARY  
A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.  
1.2 QUALITY ASSURANCE  
A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.  
1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 1.  
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.  
1. Comply with UL 467.

PART 2 - PRODUCTS  
2.1 GROUNDING CONDUCTORS  
A. For insulated conductors, comply with Division 16 Section "Wiring Methods."  
B. Material: Copper.  
C. Equipment Grounding Conductors: Insulated with green-colored insulation.  
D. Grounding Electrode Conductors: Stranded cable.  
E. Bare Copper Conductors: Comply with the following:  
1. Solid Conductors: ASTM B 8.  
2. Assembly of Stranded Conductors: ASTM B 8.  
2.2 CONNECTOR PRODUCTS  
A. Comply with IEEE B37 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected lines.  
PART 3 - EXECUTION  
3.1 APPLICATION  
A. Use only copper conductors.  
B. In airways, use insulated equipment grounding conductors.  
C. Equipment Grounding Conductor Terminations: Use bolted pressure caps.  
D. Grounding bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.  
1. Use insulated spacer (space) 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.  
2. At doors, route the bus up to the top of door frame, across the top of the doorway, and down to the specified height above the floor.  
3.2 EQUIPMENT GROUNDING CONDUCTORS  
A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.  
3.3 INSTALLATION  
A. Grounding conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.  
3.4 CONNECTIONS  
A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.  
B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with single pressure-type connectors.  
C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.  
D. Compression-type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embedding or other standard method to make a visible indication that a connector has been adequately compressing on conductors.  
END OF SECTION 16050

SECTION 16100 - WIRING METHODS  
PART 1 - GENERAL  
1.1 SECTION REQUIREMENTS  
A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V.  
1. V and less, and twisted-pair cable; and associated boxes.  
PART 2 - PRODUCTS  
2.1 WIRES AND CABLES  
A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.  
2.2 BACKWAYS  
A. Wiresways: Screwed cover type, with manufacturers standard finish.  
B. Outlets and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.  
C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.  
2.3 ENCLOSURES  
A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.  
B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.

2.4 INSTALLATION  
A. Install wires and cables according to the NECA's "Standard of Installation."  
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.  
C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.  
D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.  
E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.  
F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1-inch concrete cover.  
G. Install exposed raceways parallel to or at right angles to exterior walls or structural members, and follow the surface contours as much as practical.  
H. Join raceways with fittings approved and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight using bushings to protect conductors.  
I. Join empty raceways. Use No. 14 AWG zinc-coated steel or nonmetallic plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.  
J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.  
K. Sub-panel Connections for Equipment: Extend conductors to equipment with rigid metal conduit, flexible metal conduit may be used 3 inches above the floor.  
L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacles and fixture ground terminals.

3.2 IDENTIFICATION MATERIALS AND DEVICES  
A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.  
B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.  
C. Identify raceways and cables with color banding as follows:  
1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encasing conduit, and place adjacent to bands of two-color markings in contact, side by side.  
2. Band Locations: At changes in direction, at entrances of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.  
3. Colors: As follows:  
a. Telecommunication System: Green and yellow.  
D. Color-code system secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:  
1. 120/208V 277/480V  
1. Phase A: Black  
2. Phase B: Red  
3. Phase C: Blue  
4. Neutral: White  
5. Ground: Green  
END OF SECTION 16100

SECTION 16140 - WIRING DEVICES  
PART 1 - GENERAL  
1.1 SECTION REQUIREMENTS  
A. Submittals: None.  
B. Comply with NEMA WD 1.  
C. Comply with NFPA 70.  
PART 2 - PRODUCTS  
2.1 DEVICES  
A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.  
B. Color: Per Material Schedule on sheet 0103.  
C. Receptacles: Heavy Duty grade, NEMA UD6, Configuration 5 20R unless otherwise indicated.  
D. Ground-Fault Circuit Interrupter Receptacles: Integral duplex receptacle; for installation in box without an adapter.  
E. Feed-through types, with 2 3/4-inch deep outlet.  
F. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.  
G. Gasp Switches: Heavy-duty, reset type.  
H. Wall Plate: Per Material Schedule on sheet 0103.  
I. Floor Service Fittings: Modular, above floor, dual-service units suitable for wiring method used.  
PART 3 - EXECUTION  
3.1 INSTALLATION  
A. Install devices and assemblies plumb and square.  
B. Mount device flush with long dimension vertical unless otherwise indicated.  
C. Protect devices and assemblies during painting.  
D. Install wall plates when painting is complete and paint is cured.  
END OF SECTION 16140

### ELECTRICAL GENERAL NOTES

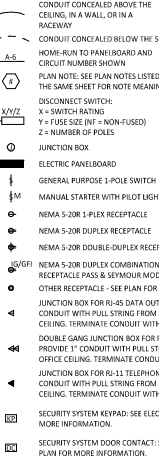
A. GENERAL NOTES APPLY TO ELECTRICAL SYSTEMS.  
B. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE RELEVANT CODES.  
C. WIRING SHALL BE (2#12, #12 IN 3/4" UNLESS NOTED OTHERWISE).  
D. INDIVIDUAL CONDUIT HOME RUNS UNLESS SHOWN OTHERWISE.  
E. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.  
F. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTABLES AT 18" AFF TO CENTER OF RECEPTABLE UNLESS NOTED OTHERWISE.  
G. INSTALL ALL CONDUIT AND LOW VOLTAGE WIRING CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.  
H. PROVIDE 1" CONDUIT WITH FULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBONS AND TERMINATE CONDUITS WITH OFFICE CEILING WITH CONDUIT BUSHING.  
I. THE TERM "TURN-IN" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, 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.  
J. DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.  
K. INSTALL LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES FURNISHED BY TSV ON WALL IMMEDIATELY ABOVE RECEPTABLES.  
L. IF THERE ARE BAYED ASSEMBLIES WITHIN CHIPPOTLE'S SPACE, COORDINATE ANY REQUIRED CONDUIT RUNS WITH SECURITY VENDOR.

SECTION 16440 - PANELBOARDS  
PART 1 - GENERAL  
1.1 SECTION REQUIREMENTS  
A. Submittals: None.  
B. Comply with NFPA 70.  
C. Comply with NEMA PB 1.  
PART 2 - PRODUCTS  
2.1 PANELBOARDS AND LOAD CENTERS  
A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:  
1. Panelboards: Overcurrent Protective Devices, Circuitbreakers, Connectors, and Accessories:  
a. Square D Co.  
b. Eaton Corp./Cutler-Hammer Products.  
c. General Electric Co./Electrical Distribution & Control Div.  
d. Siemens Energy & Automation.  
B. Raceway: NEMA PB 1, Type 1.  
1. Load Center Capacity: as shown on drawings.  
2. Front: Secured to box with concealed trim clamps.  
3. Doors: With concealed hinges, flush catches, and lumber locks, all keyed alike.  
4. Bus: Hard drawn copper of 98 percent conductivity.  
C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, single-handle for multiple circuit breakers. Appropriate for application, including Type SHD for repetitive switching lightning loads and Type HACR for heating, air conditioning, and refrigerating equipment.  
D. Connectors: NEMA ICS 2, Class A combination connectors.  
PART 3 - EXECUTION  
3.1 INSTALLATION  
A. Install panelboards and accessory items according to NEMA PB 11. Provide typed, permanently-mounted English and Spanish circuit directories showing the panel schedule as installed in each panelboard.  
B. Mounting heights: Top of trim 74 inches above finished floor, unless otherwise indicated.  
C. Future Circuit Provision at Flush Panel boards: Stud four empty 3/4-inch conduits from panelboard into accessible or designated pull space.  
D. Wiring in Panelboard Girders: Arrange conductors in groups, bundle and wrap with wire ties according to NEC guidelines.  
E. Tie electrical connectors and terminals, including grounding connectors, using manufacturer's published torque tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.  
F. Label and mechanically insulate electrical and electrical tests rated to NETA IAS.  
END OF SECTION 16440

SECTION 16460 - DRY-TYPE TRANSFORMERS  
PART 1 - GENERAL  
1.1 SECTION REQUIREMENTS  
A. SUBMITTALS: Submit outline and support point dimensions of enclosures and accessories, unit weight, voltage, kVA, and impedance ratings and characteristics, tap configurations, insulation system type, and rated temperature rise.  
PART 2 - PRODUCTS  
2.1 TWO-WINDING TRANSFORMERS  
A. Manufacturers:  
1. Square D.  
2. Acme Power Distribution  
B. Unit Description: NEMA ST 20, factory-assembled, air-cooled, dry type transformers  
C. Primary Voltage: 480V, 3 phase.  
D. Secondary Voltage: 208/120 volts, 3 phase.  
E. Efficiency: Efficient system and average winding temperature rise for rated kVA as follows:  
1. 16-500 kVA: Class 220 with 115 degrees rise  
F. Winding Taps:  
1. NEMA ST 20  
G. Sound Levels: NEMA ST 20. Maximum sound levels are as follows:  
1. 15-74 kVA: 55dB.  
2. Larger 75 kVA and larger kVA: 50 dB  
H. Energy Efficiency:  
1. 15-74 kVA: 97%  
2. 75 and larger kVA: 98%  
I. Mounting:  
1. Suitable for wall, floor, or top mounting.  
J. Coil Conductors: Continuous aluminum windings.  
K. Enclosure: NEMA ST 20, Type 1 ventilated. Furnish latching eyes or brackets.  
L. Insulate core and coil from enclosure using vibration dampers.  
M. Nameplate: Include transformer connection data and overload capacity based on rated allowable temperature rise.  
PART 3 - EXECUTION  
3.1 INSTALLATION  
A. Set transformer plumb and level.  
B. Use flexible conduit, in accordance with Section 16128; 2 feet minimum length, for connections to transformer case.  
C. Make conduit connections to side panel of enclosure.  
D. Support transformers in accordance structural details.  
D. Install grounding and bonding in accordance with Section 16060.  
3.2 ADJUSTING  
A. Measure primary and secondary voltages and make appropriate tap adjustments.  
END OF SECTION 16460

SECTION 16500 - LIGHTING  
PART 1 - GENERAL  
1.1 SECTION REQUIREMENTS  
A. Submittals: None.  
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.  
C. Coordinate ceiling-mount luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted in ceiling space and on ceiling.  
PART 2 - PRODUCTS  
2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL  
A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.  
B. Doors, Frames, and Other Internal Access: Smooth opening, free from oil-lead under operating conditions, and equipped with permit releasing without use of tool. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.  
C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.  
PART 3 - EXECUTION  
3.1 INSTALLATION  
A. Set units level, plumb, and square with ceiling and walls, and secure.  
B. Support for Replacement and Semi-recessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture; located not more than 6 inches from fixture corners.  
C. Support for Suspended Fixtures: Support according to manufacturer's recommendations.  
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.  
END OF SECTION 16500

### ELECTRICAL SYMBOLS



### ELECTRICAL MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	FIELD MADE COB (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SJO SERVICE CONDUIT WITH CU CONDUCTORS
	INDOOR, EXPOSED	FIBROPLASTIC METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2' OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CABLE
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED W/ OR DM/IMP LOCATIONS)	LIGHTWIGHT FIBROPLASTIC CONDUIT
CONDUITS	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DIRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCH40/D 40 PVC)
	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	W/BN STAINLESS STEEL COVER
	IG OR GFI/RECEPTABLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
WIRING DEVICES	DN DRUMMILL AND DIMMING	WHITE DEVICE WITH WHITE COVER/PLATE
	ON HOT ROLLED STEEL, RHICUTE, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

Consultant:

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FOR CONSTRUCTION  
PROFESSIONAL EXPRESSION  
THIS SET OF CONTRACT DOCUMENTS HAS BEEN PREPARED IN ACCORDANCE WITH THE PROFESSIONAL ENGINEERING STATUTE AND REGULATIONS OF THE STATE OF OHIO, EFFECTIVE AS OF JANUARY 1, 2012.  
CONTRACT NO. 2015-0037

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### ELECTRICAL ABBREVIATIONS

AF#	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
EX	EXISTING
EXTG	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
WP	WETPROOF
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HE	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KS	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
NCS	TENANT'S MUSIC SYSTEMS CONTRACTOR
MS	TENANT'S MEN'S ROOM SUPPLIER
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TDES	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TL	TENANT'S LIGHT/AI SUPPLIER
TMB	TENANT'S PHONE BOARD SUPPLIER
TS	TENANT'S MILL WORK SUPPLIER
TP	TENANT'S SIGN SUPPLIER
TAB	TENANT'S PANEL BOARD SUPPLIER
TR	TENANT'S TRAILER SUPPLIER
TSV	TENANT'S SIGN VENDOR
TSC	TENANT'S SIGN CONTRACTOR
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WVS	TENANT'S WATER HEATER SUPPLIER

Drawn: MCD  
AJJ: checked  
Project No.: 240198  
C/168

### ELECTRICAL SPECIFICATIONS

E010

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	NOTES
R1	A	32	KITCHEN A	TIMELOCK	7:00:00 AM	12:00:00 AM	SINGLE POLE (INC)
R2	A	32	KITCHEN B	TIMELOCK	7:00:00 AM	12:00:00 AM	SINGLE POLE (INC)
R3			SPARE				SINGLE POLE (INC)
R4	A	30	DINING ROOM A	TIMELOCK	10:00:00 AM	12:00:00 AM	SINGLE POLE (INC)
R5	A	30	DINING ROOM B	TIMELOCK	10:00:00 AM	12:00:00 AM	SINGLE POLE (INC)
R6			SPARE				SINGLE POLE (INC)
R7	A	28	RESTROOM EXHAUST FAN	TIMELOCK	7:00:00 AM	12:00:00 AM	SINGLE POLE (INC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMELOCK	SUNSET - 1 HR	12:00:00 AM	SINGLE POLE (INC)

DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP LIGHTING CONTROL PANEL	1	TLS	GC	ACUTY	ARP INTENCOB NLT BFCR BVCLET NLR FRM BTC CPFLC	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
WALL-MOUNTED OVER-RIDE SWITCH (4 CHANNEL)	1	TLS	GC	ACUTY	IP0SDMA 4P WH	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
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 TUCKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DUAL-25SP DIMMER AS REPLACEMENT
WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	HMATS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

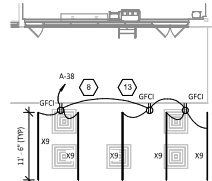
TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	10	2x2 LED LENSED TROFFER	LAY-IN	TLS	GC	NORA LIGHTING	NPOBL E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0.10V DIMMING, FACTORY LOCKED TO 3000K
B1	12	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NMC-6G2AATFL WITH NTM-57W/NL Trm	(1) 17W ECONOMY ECO-P46B8C-17-GU24-27K-25D LED (25-2700K) W/ GU 24 BASE	120	17	
B2	28	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NMC-6G2AATFL WITH NLCBRC-65130W 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	NMC-6G2AATFL WITH NLCBRC-651278B 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/W/W	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
C2	2	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/34/W/W	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
C3	10	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/W/W	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
C4	8	LOW PROFILE LED - 5 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/59/W/W	INTEGRAL 3000K LED	120	18	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION
E1	3	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXTRONIX	LED-90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	TLS	GC	EXTRONIX	MLED1-B-WP	(1) SPECIAL LED	4	1	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE CARBIDE EXT SIGN WITH MOUNTING PLATE
E4	3	WHITE EXIT SIGN WITH 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	10	EMERGENCY LIGHT	VARIOUS	TLS	GC	DUAL-LITE	LV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
H1	8	HOOD LIGHT	SURFACE	THS/TLS	THS	FURNISHED WITH HOOD		(1) TCP L86A19N1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	SURFACE	TLS	GC	BARN LIGHT	BLE-C-3RN-100-ASH-SB-K-1	GREEN CREATIVE 90 MA-9124	120	9	WITH BLACK LAMPshade, BLACK CORD, AND ONE LAMPHOLDER
P5	3	PENDANT	SURFACE	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W-LBL	TOP IQ25S40027CCQ	120	5	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	2	DECORATIVE DINING ROOM PENDANT	SURFACE	TLS	GC	BARN LIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	120	30	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
T1	25	TRACK HEAD	TRACK	TLS	GC	JUNO	R60SL 30K 90CRI PDIM WFL BL	INTEGRAL LED	120	10	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-4	3	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	3	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	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED BLOCK
TCL-3	1	CURRENT LIMITER (360W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 3A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED BLOCK
X9	4	MK LED FIXTURE	SURFACE	WCS	GC	FURNISHED WITH MK		INTEGRAL LED	120	29	MET-RATED COOLER FIXTURE
X9	5	FLEXIBLE LED TAPE LIGHT	SURFACE	TLS	GC	GM LIGHTING	WSDN120	V120-40-30-11-6	120	52	FURNISHED W/ V120-PC-4 POWER CONNECTOR, TWO V120-CHL-6 MOUNTING CHANNELS, TWO V120-CHL-6 LENS PROTECT LENSES, AND V120-ECC END CAP COVERS FOR EACH FIXTURE

**LIGHTING FIXTURE SCHEDULE NOTES**

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

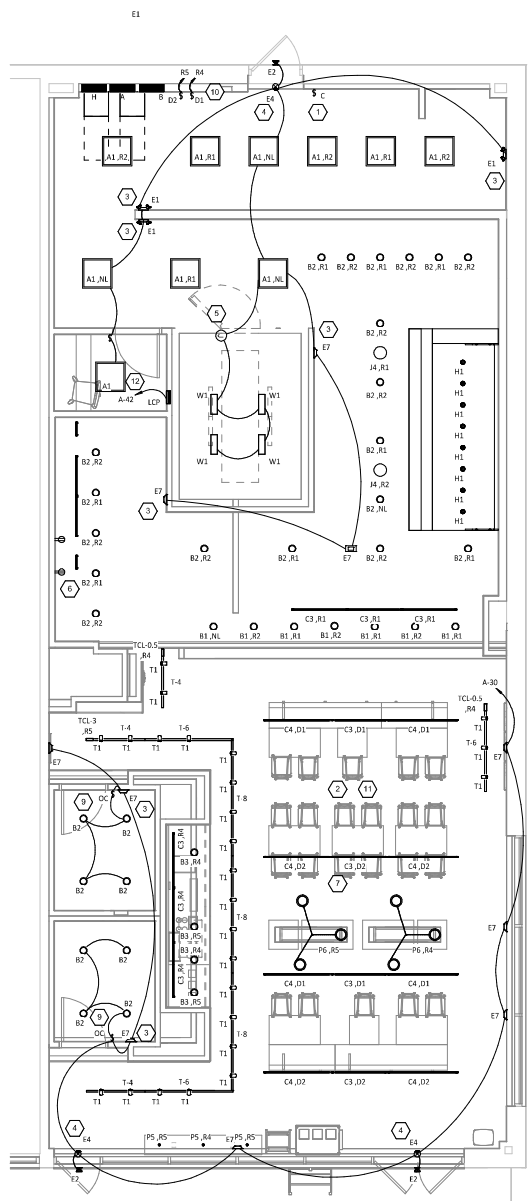
**ELECTRICAL LIGHTING PLAN NOTES**

- 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 EXT SIGN PRIOR TO ROUGH-IN. EXT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
- WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
- VERIFY MOUNTING HEIGHT OF EXT SIGN PRIOR TO ROUGH-IN. EXT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
- PROVIDE (1) (2) RECEPTACLES FOR UNDER-SHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E700 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.
- CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL 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 FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
- INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS IF 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, AND R6) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
- INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
- INSTALL WALL-MOUNTED (2) RECEPTACLES FOR PATIO LIGHTS AT CEILING UNDER CANOPY. CONNECT LED LIGHT STRIP TO RECEPTACLE.



**PATIO LIGHTING FLOOR PLAN**

1" = 10'-0"



**LIGHTING FLOOR PLAN**

1/4" = 1'-0"

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	04/23/2025	ISSUE FOR CONSTRUCTION

Drawn: \_\_\_\_\_ Check: \_\_\_\_\_  
 AJJ MPC

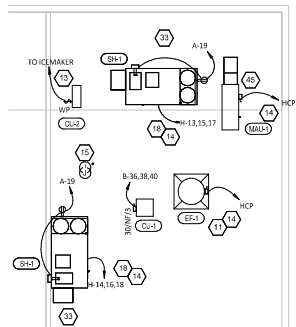
Project No: 2401198

**ELECTRICAL LIGHTING PLAN**

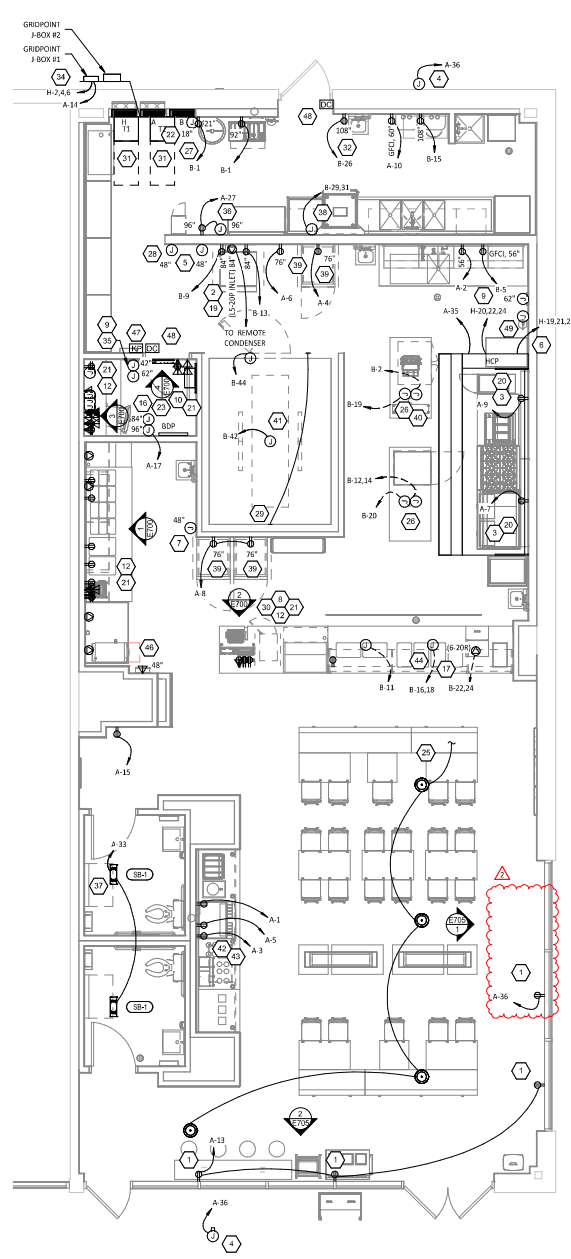
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**ELECTRICAL POWER PLAN NOTES**

- 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 E710.
- 2 ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE 15-20P PLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH 15-20R END. FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
- 3 CONNECT RECEPTACLES 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 RECEPTACLES 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 6/710.
- 5 PROVIDE A SINGLE GANG VERTICAL JUNCTION BOX 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. 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.
- 6 PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MESS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
- 7 COORDINATE DATA/PAPER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.
- 8 PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2" DEEP OCTAGON J-BOX WITH 1.5" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.
- 9 PROVIDE (2) EMPTY 2" CONDUITS WITH PULL STRINGS FROM THE EAST BUILDING'S TELEPHONE AND DATA SERVICE ENTRANCE LOCATIONS TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.
- 10 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 VIBROGUARD SYSTEM IS INSTALLED.
- 11 AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED ICS RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.
- 12 PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.
- 13 UNIT SHALL HAVE AN INTEGRAL NON-USED DISCONNECT SWITCH.
- 14 PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD EVEN WITH TOP OF PARAPET FOR FUTURE CELL BOOSTER. SECURE CONDUIT TO STRUCTURE TO SUPPORT FUTURE ANTENNA INSTALLATION. PROVIDE 1/4" X 2" X 10" 16-HOLE GROUNDING BUSBAR (BURNEDY BBS42-20R OR EQUAL) MOUNTED TO CONDUIT ABOVE ROOF FOR FUTURE CONNECTION OF LIGHTNING ARRESTORS. PROVIDE #6 CU GROUND FROM BUSBAR TO MAIN ELECTRODE GROUNDING CONDUCTOR.
- 15 INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) CONSISTING OF THE NEXT POWER-HUB AND UPS FURNISHED BY THE TENANT ON WALL 12" BELOW CEILING. INSTALL POWER-HUB AND UPS AND CONNECT POWER-HUB TO INLET AND OUTPUT J-BOXES PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 16 ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 17 ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
- 18 ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
- 19 PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXXD FOR SINGLE GANG BOXES AND WP1030MXXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
- 20 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED; DISCONNECT AT PANEL BDP."
- 21 LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
- 22 PROVIDE TWO J-BOXES ALIGNED VERTICALLY ON WALL AS SHOWN FOR CONNECTION TO NEXT POWER-HUB. CONNECT UPPER J-BOX TO CIRCUIT SHOWN FOR CONNECTION TO POWER-HUB. TERMINATE WIRING FOR DEVICES SHOWN TO BE CIRCUITED TO "BDP-1" WITHIN LOWER J-BOX FOR CONNECTION TO POWER-HUB.
- 23 CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).
- 24 INSTALL 16/2 SPEAKER WIRE FURNISHED BY MESS. 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 70V TAP SETTING TO BE 15 WATTS.
- 25 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/710. PROVIDE GFCI DUPLEX RECEPTACLES IN THREE J-BOXES INTEGRAL TO PREP TABLES (FOR UNDERCOUNTER REFRIGERATOR, HOT HOLDING CABINET, AND GENERAL RECEPTACLE).
- 26 PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY COZAS AS SHOWN IN DETAIL 4/710.
- 27 PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY COZAS AS SHOWN IN DETAIL 4/710.
- 28 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.
- 29 PROVIDE 1" 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.
- 30 MAINTAIN 30" WIDE X 42" DEEP CLEAR WORKING SPACE IN FRONT OF TRANSFORMER. COORDINATE CLEAR SPACE WITH WORK OF OTHER TRADES.
- 31 LABEL RECEPTACLE "IN INSECT TRAP".
- 32 INSTALL TRANSFORMER FURNISHED BY TLV WITH THE REME HALD AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/1700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALD RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALD USING THE INCLUDED BARREL PLUG.
- 33 PROVIDE (2) 10"x10"x4" JUNCTION BOXES (J-BOX #1)-J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/710. TEMS SHALL PROVIDE GROUNDING PHASE METERS AND TRANSFORMER WITHIN J-BOX #1 AND GROUNDPOINT JUNCTION WITHIN J-BOX #2. SEE GROUNDPOINT INSTALLATION SHEET FOR DETAILS.
- 34 PROVIDE HORIZONTAL SINGLE GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/710.
- 35 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.
- 36 CONNECT BACKHOOD SANKETS TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
- 37 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/710. CONNECT THE DISH WIRE TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 38 PROVIDE RECEPTACLE FOR 2-DOOR AND/OR 1-DOOR REFRIGERATOR WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.
- 39 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.
- 40 PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
- 41 LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/MBB", AND "SOBA FOUNTAIN".
- 42 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
- 43 PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. (4) #12, #12 N, #12 G. IN 1" C. FROM MALU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 44 PROVIDE A HORIZONTAL SINGLE GANG J-BOX FOR DATA JACK AS SHOWN FOR SINKS/TIME CLOCK.
- 45 PROVIDE A RECESSED J-BOX AT 36" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
- 46 PROVIDE A RECESSED SINGLE GANG J-BOX ABOVE DOOR AND 3" IN FROM LATCH SIDE OF DOOR FOR THE INSTALLATION OF THE SECURITY SYSTEM DOOR CONTACT WITH A 1/2" CONDUIT TO ABOVE THE LAY-IN CEILING. TERMINATE CONDUIT WITH A CONDUIT BUSHING.
- 47 PROVIDE A J-BOX 6" BELOW THE LAY-IN CEILING WITH A 1/2" CONDUIT ROUTED TO THE HCP. PROVIDE 16 GA 3 CONDUCTOR LOW VOLTAGE WIRE FROM THE HOOD SUPPRESSION SYSTEM GAS VALVE BACK TO THE HCP WITH FINAL CONNECTION IN THE HCP BY THE FS INSTALLER. LOW VOLTAGE WIRING FROM THE J-BOX TO THE GAS VALVE SHALL BE CONCEALED WITHIN FLEXIBLE METAL CONDUIT OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT. COORDINATE J-BOX LOCATION WITH GAS VALVE SO THAT CONDUIT IS 12" OR LESS.



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



**POWER FLOOR PLAN**  
3/4" = 1'-0"

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AJL MPC

Project No: 2401198

Comments:

**ELECTRICAL POWER PLAN**

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ELECTRICAL
SCHEDULES

E600

Table for Panel B: VOLTS: 208/120V Wye, PHASES: 3, WIRES: 4, MOUNTING: Recessed, ENCLOSURE: Type 1, MCB RATING: 175 A. Includes columns for C/B #, LOAD [A], LOAD [VA], and descriptions for items like 1 RECEPTACLES, 2 FOOD PREP TABLE, etc.

Table for Panel A: VOLTS: 208/120V Wye, PHASES: 3, WIRES: 4, MOUNTING: Recessed, ENCLOSURE: Type 1, MCB RATING: 175 A. Includes columns for C/B #, LOAD [A], LOAD [VA], and descriptions for items like 1 RECEPTACLES, 2 FOOD PREP TABLE, etc.

Table for Panel H: VOLTS: 480/277V Wye, PHASES: 3, WIRES: 4, MOUNTING: Recessed, ENCLOSURE: Type 1, MCB RATING: 200 A. Includes columns for C/B #, LOAD [A], LOAD [VA], and descriptions for items like 1 RECEPTACLES, 2 FOOD PREP TABLE, etc.

Summary table for Panel B: PHASE TOTAL [kVA], PHASE TOTAL [AMPS].

Summary table for Panel A: PHASE TOTAL [kVA], PHASE TOTAL [AMPS].

Summary table for Panel H: PHASE TOTAL [kVA], PHASE TOTAL [AMPS].

Table with columns: TYPE, DESCRIPTION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS.

Table with columns: TYPE, DESCRIPTION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS.

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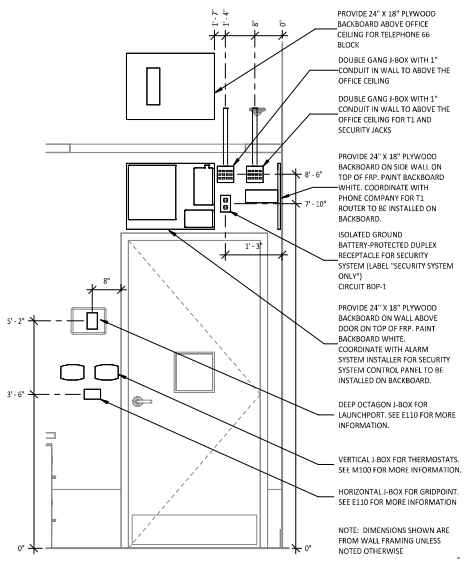
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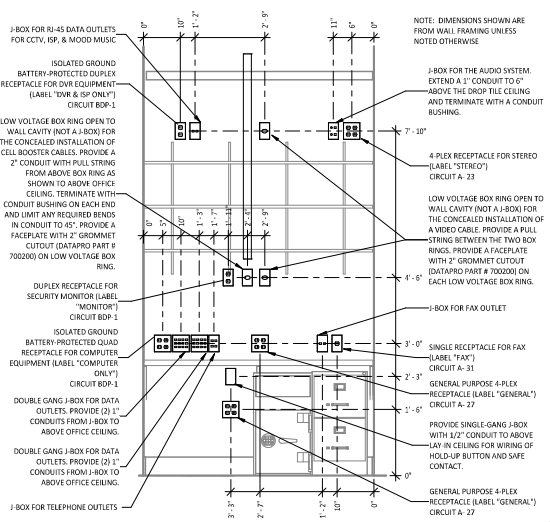
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 PROJECT: ELECTRICAL INTERIOR ELEVATIONS

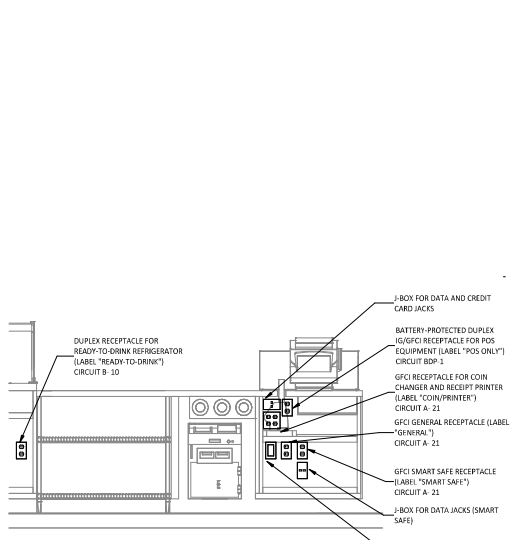
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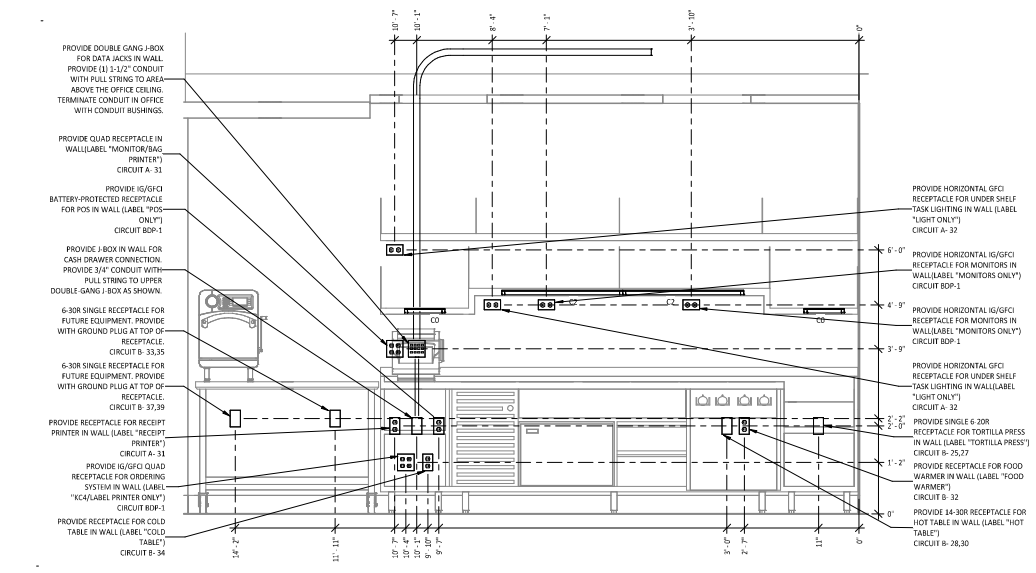
OFFICE DOOR ELECTRICAL ELEVATION  
 3/4" = 1'-0"



OFFICE DESK ELECTRICAL ELEVATION  
 3/4" = 1'-0"



POS COUNTER ELECTRICAL ELEVATION  
 3/4" = 1'-0"



SML ELECTRICAL ELEVATION  
 3/4" = 1'-0"

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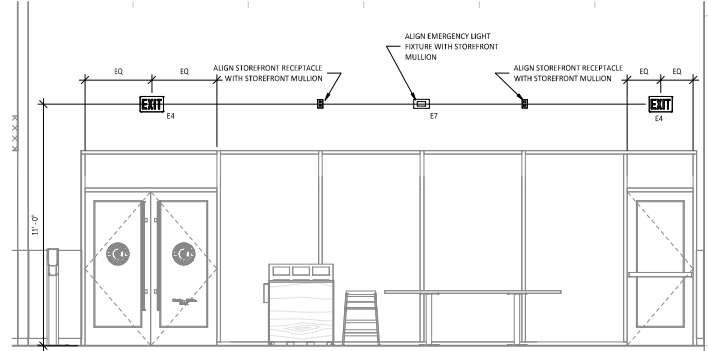
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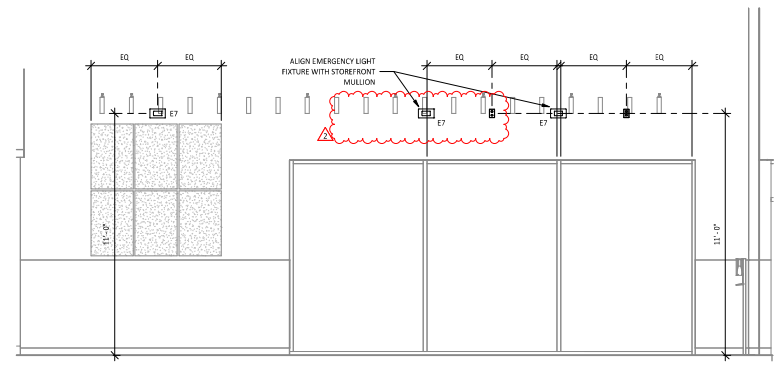
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ELECTRICAL INTERIOR  
ELEVATIONS

E705



**DINING ROOM ELECTRICAL ELEVATION**  
2  
E705  
3/8" = 1'-0"



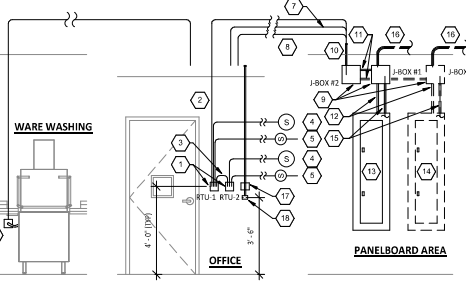
**DINING ROOM ELECTRICAL ELEVATION**  
1  
E705  
3/8" = 1'-0"

**GRIDPOINT DIAGRAM NOTES**

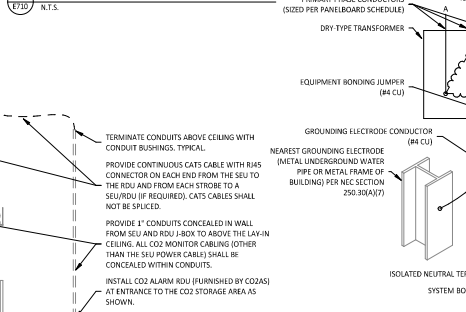
1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAISE CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX AND 18" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "STATS".
3. PROVIDE CAISE CABLES BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "STATS JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZONE TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX ON TILING FLUSH MOUNTED TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITH THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE #12-3 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISH-WASHER".
7. PROVIDE CATS CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "60-48 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 30" OF SLACK CABLE ABOVE OFFICE CEILING AND 10' OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24MM SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 30" OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 30" X 30" X 1/2" NEMA-1 ENCLOSURES ABOVE PANELBOARDS AND 0" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHINGS ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUITS FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUITS FROM PANELBOARDS TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD #12 FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 200A 2-PHASE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METERS). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 200A 1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF (4) #12, #12 G, #12 G FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF (2) #12, #12 G, #12 G FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF (2) #12, #12 G, #12 G FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS.
18. PROVIDE HORIZONTAL SINGLE GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX #2 TO 6" ABOVE OFFICE LAY-IN CEILING.

**NOTE:**

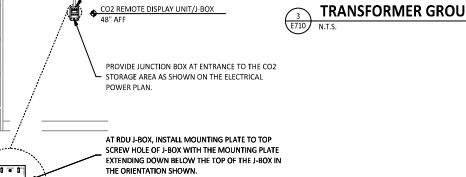
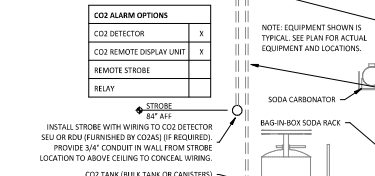
EQUIPMENT SHOWN IS TYPICAL. SEE PLAN FOR ACTUAL DEVICE LOCATIONS.



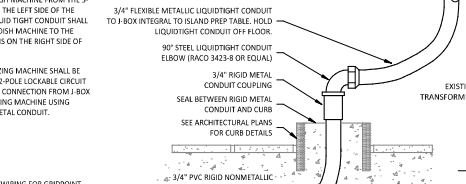
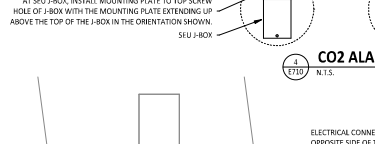
**GRIDPOINT WIRING DIAGRAM**



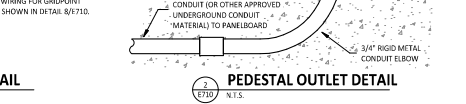
**TRANSFORMER GROUNDING AND BONDING DETAIL**



**CO2 ALARM DETAIL**



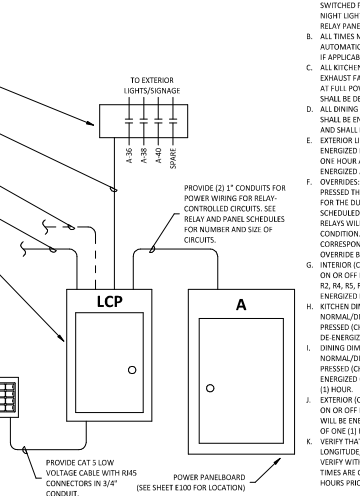
**PEDESTAL OUTLET DETAIL**



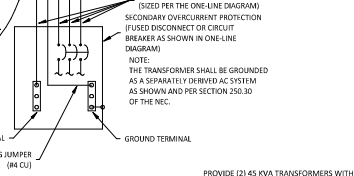
**DISH SANITIZING MACHINE ELECTRICAL DETAIL**

**SEQUENCE OF OPERATIONS**

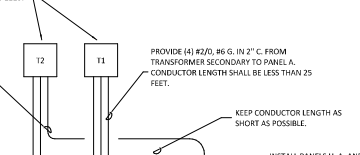
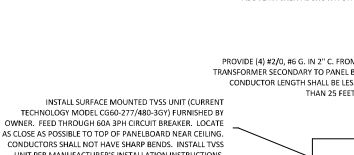
- A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
- B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYSAVET SAVINGS TIME, IF APPLICABLE.
- C. ALL KITCHEN LIGHTING CIRCUITS AND BEDROOM CHANSELT FAN CIRCUIT (RL, RL, RL) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE ENERGIZED AT OTHER TIMES.
- D. ALL DINING ROOM LIGHTING CIRCUITS (RL, RL, RL) SHALL BE ENERGIZED FROM 8:00AM UNTIL MIDNIGHT AND SHALL BE ENERGIZED AT OTHER TIMES.
- E. EXTERIOR LIGHTING/SIGNAL RELAY (RS) SHALL BE ENERGIZED FROM ONE HOUR BEFORE SUNSET UNTIL ONE HOUR AFTER CLOSING AND SHALL BE ENERGIZED AT OTHER TIMES.
- F. OVERIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE. FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITION. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
- G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE OR ON OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS #1, #2, #4, #5, #6, AND #7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE OR ON OFF BUTTON IS PRESSED (CHANNEL 2) RELAY #2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE OR ON OFF BUTTON IS PRESSED (CHANNEL 3) RELAYS #3 AND #6 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- J. INTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE OR ON OFF BUTTON IS PRESSED (CHANNEL 4) RELAY #4 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
- K. VERIFY THAT TIME, TIME ZONE, AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TUNOINER.



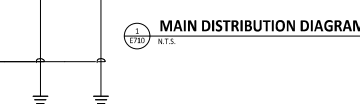
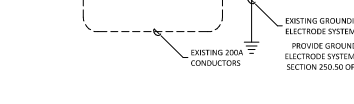
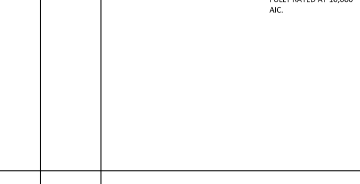
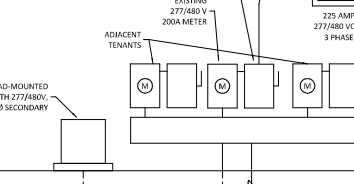
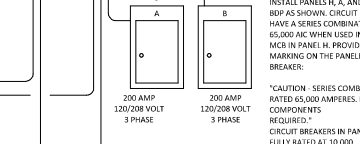
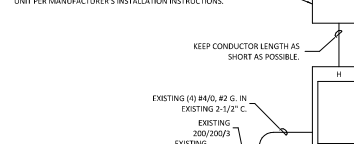
**INTERIOR LIGHTING CONTROL DIAGRAM**



**TRANSFORMER GROUNDING AND BONDING DETAIL**



**MAIN DISTRIBUTION DIAGRAM**



**MAIN DISTRIBUTION DIAGRAM**

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Issue Record	DATE	ISSUE FOR PERMIT
	02/24/2025	
	04/23/2025	ISSUE FOR CONSTRUCTION

Drawn:	Checked:
AJI	MPC

Project No:  
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