

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Shop Drawings.
B. Comply with KARMAE 15.
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 3 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 Heating/Cooling Unit Schedule on drawing M000 for capacities, and manufacturers.
2. Evaporator Fans: Belt or direct drive, forward curved centrifugal.
3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
4. Condenser Fans: Direct drive propeller.
5. Refrigerant Coils: Aluminum fins and copper coil.
6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutoff, and forced draft proving switch.
8. Evaporator controls (Compassitive-Enthalpy, 100% capacity).
9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
11. Roof curb.
12. Control Wiring from 1 stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
13. Control Wiring from 1 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. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - 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 I, 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-663/924
1. Back of Design Manufacturers: Lindsay-SPIROtube, 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 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1/2 inch. Qualifier: #:
1. Adhesive: ASTM C 516, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
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 Standard" 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 resistant 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. R-value: R-0, around a continuous inner 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 M000.

6. 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 be balanced and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The A/C's 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 +/-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 15810

SECTION 15850 - 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 Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturers: As scheduled (NO SUBSTITUTIONS)
B. Material: As scheduled.
C. Finish: As scheduled.
D. Mounting: As scheduled.

PART 3 - 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 15850

HVAC GENERAL NOTES

- A. GENERAL NOTES APPLY TO HVAC SHEETS.
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 TO THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING 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 ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIOUS 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 "SHIRMS" 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. WITH BACK LETTERING).
L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).
M. PROVIDE #300 12 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.

HVAC MATERIAL SCHEDULE

DUCT	APPLICATION	ALLOWABLE MATERIAL
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	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)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT SEALING MASTIC

HVAC ABBREVIATIONS

- (E) EXISTING
ABV ABOVE
ADA AMERICANS WITH DISABILITIES ACT
AFF ABOVE FINISHED FLOOR
ARG ABOVE FINISHED GRADE
AHJ AUTHORITY HAVING JURISDICTION
BFF BELOW FINISHED FLOOR
BFG BELOW FINISHED GRADE
BOH BACK OF HOUSE
CEG CEILING
CCE CONNECT TO EXISTING
DN DOWN
EXT'G EXISTING
FLR FLOOR
FOH FRONT OF HOUSE
GYP GYPSUM BOARD
NTS NOT TO SCALE
O/H OVERHEAD
OBD OPPOSED BLADE DAMPER
TYP TYPICAL
UG UNDERGROUND
UNO UNLESS NOTED OTHERWISE
VFD VARIABLE FREQUENCY DRIVE
VSC VARIABLE SPEED CONTROLLER
W/ WITH
WIC WALK-IN COOLER
CD2AS TENANT'S CO2 ALARM SUPPLIER
GC GENERAL CONTRACTOR
HES TENANT'S HVAC EQUIPMENT SUPPLIER
HS TENANT'S HOOD SUPPLIER
KES TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL LANDLORD
MSS TENANT'S MUSIC SYSTEMS SUPPLIER
SPS TENANT'S SODA POP SUPPLIER
TAB TENANT'S TEST AND BALANCE VENDOR
TCC TENANT'S CABLING CONTRACTOR
TDC TENANT'S DUCT CLEANER
TEMS TENANT'S EMERGENCY MANAGEMENT SYSTEM SUPPLIER
TSL TENANT'S LIGHTING SUPPLIER
TMB TENANT'S MENU BOARD SUPPLIER
TMS TENANT'S MILLWORK SUPPLIER
TP TENANT'S PHONE SUPPLIER
TPS TENANT'S PANELBOARD SUPPLIER
TRS TENANT'S RAILING SUPPLIER
TSV TENANT'S SIGN VENDOR
TLV TENANT'S UV SHAITZER SUPPLIER
WCS 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
 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 M000 FOR EQUIPMENT INFORMATION
 AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
 GRILL, REGISTER, OR DIFFUSER TAG:
- TAG
- NECK SIZE
- AIRFLOW (CFM)



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STORE NO. : 5235
CANE ISLAND
CANE ISLAND PARKWAY
KATY, TX 77494

Issue/Revised:	DATE	PERMIT SET
	08/26/2024	
	09/06/2024	BID SET

Revisions:	Date	Description

Drawn:	Checked:
HEW	DIR

GPD Project No.:	CMS Store No.:
20230107	5235

Contract:

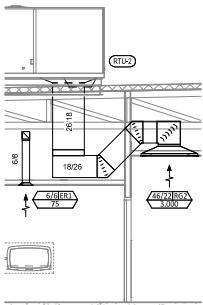
HVAC SPECIFICATIONS

M010

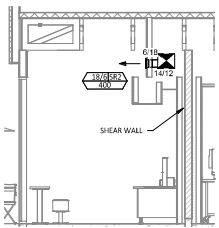
HVAC PLAN NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PANTRY DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED, COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- 26/16 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 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.
- 26/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 30/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUS ED BOWNS WITH AN INSIDE RADIUS OF 6SW AT BOWNS IN GREASE DUCT.
- 26/16 DUCT UP THROUGH ROOF TO EF-1.
- 28/12 DUCT DOWN TO MAKEUP AIR PSF DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- 18" DIA. DUCT DOWN TO AC PSF DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL SINGLE-GANG VERTICAL J-BOX FOR GRIDPOINT THERMOSTATS FURNISHED BY TENS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7/20.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TENS 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/E/7/10.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TENS 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/E/7/10.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TENS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7/10.
- INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TENS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E/7/10.
- 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.
- 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 THE LISTING, IN COMPLIANCE WITH NFPA-96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M/200. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.

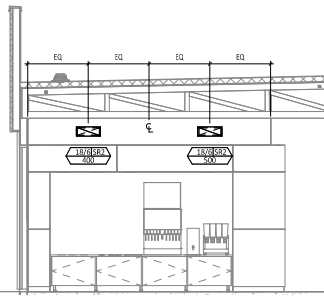
HVAC DINING ROOM RETURN SECTION
1/4" = 1'-0"



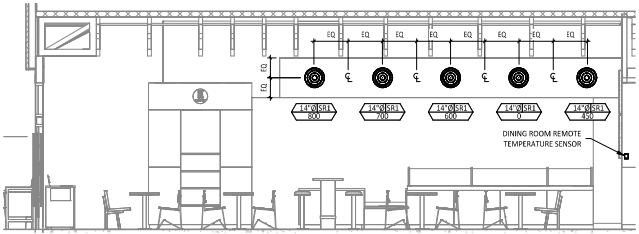
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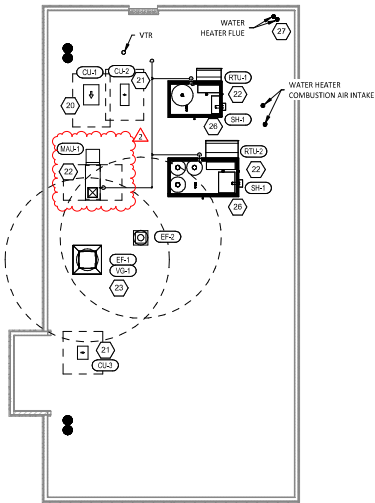
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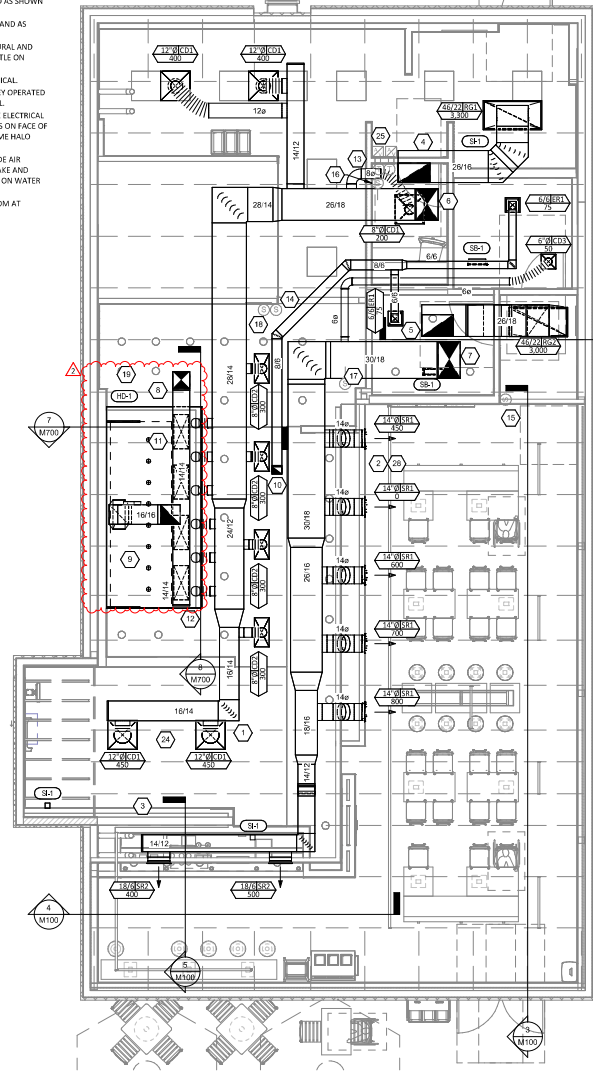
HVAC PLAN NOTES

- 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.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M/700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE WREGGARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M/700. TYPICAL.
- 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.
- INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M/700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL LVW WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOORS THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
- MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER FLE TERMINATION AND OUTSIDE AIR INTAKE. MAINTAIN 10" CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLE AND COMBUSTION AIR TERMINATIONS.
- 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 ROOF PLAN
1/8" = 1'-0"



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



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STORE NO.: 5235
CANE ISLAND PARKWAY
KATY, TX 77494

Revision	Date	Description
1	05/09/2025	CONST. BULLETIN 1

Drawn: Checked:
HEW DIR
GPD Project No: CMA Store No:
20230117 5235

HVAC PLAN

M100



CHPTOLE MEXCAN GRILL, INC.
 5105 South Fossil Road, Suite 200, #101
 Houston, TX 77056
 281.484.4311
 281.484.4312
 281.484.4313

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
SP-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-HALD	SEE DETAIL 61000 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL MOTOR POWER	V/PH	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
EF-1	UPBLAST UL762 EXHAUST FAN	2,550 CFM	1.20 in-wg	250 lb	2 hp	208/3/60	HS	GC	ACCUREX	XCLU-160-VG	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB.
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.25 hp	120/1/60	HS	GC	ACCUREX	XRED-097-VG	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB.

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN
VG-1	1	HURRICANE RATED VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	12" X 12"	ACCUREX XCLU-160-VG	GC	GC	ENVIRONMENTAL

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF COMPRESSORS	REFRIGERANT	WEIGHT	MOCF	FLA	V/PH	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN	REMARKS	
CU-1	CONDENSING UNIT - WALK-IN COOLER	1	1	R-404A	10.4 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPL09ANZCP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER	0	1	R-404A	11.46 lb	100 lb		120/1/60	KES	GC	HOSHIZAKI	URC-3FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER	0	1	R-404A	3.86 lb	100 lb		120/1/60	KES	GC	HOSHIZAKI	URC-3FZ	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	INPUT	OUTPUT	EAT	WEIGHT	ELECTRICAL MOTOR POWER	V/PH	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN	REMARKS	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	31,600 Btu/h	84,200 Btu/h	21 °F	950 lb	1 hp	208/3/60	HS	GC	ACCUREX	KOGR-P115-H05-VG	12.3.5 MAX TURNDOWN, FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS.

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMPERATURE	AIRFLOW	E.S.P.	NO.	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS						
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	2,550 CFM	0.48 in-wg	1	10'	2'-0"	12'-9"	4'-3"	13'-9"	2'-0"	1,300 CFM	4	3'-0"	2'-4"	700 CFM	4	8'	1,150 lb	HS	GC	ACCUREX	XKEW-153-S	NATL. 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, 120V GAS VALVE W/ INTEGRAL MANUAL RESET, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 20" TALL-TRACTOR FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, SPARK FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR.

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW	E.S.P.	NET COOLING CAPACITY	COND. EAT	HEATING CAPACITY	NUMBER OF COMPRESSORS	REFRIGERANT	WEIGHT	ELECTRICAL	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS		
RTU-1	KITCHEN ROOFTOP UNIT	10 ton	11	3,800 CFM	500 CFM	0.80 in-wg	119,700 Btu/h	83,700 Btu/h	2	R-410A	1,531 lb	60 A	47 A	208/3/60	HES	GC	CARRIER	48CFN13C2M5	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYS ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT MOUNTED CONVENIENCE RECEPTACLE, REHEAT, PROVIDE WITH HUMID-MIZER.
RTU-2	DINING ROOM ROOFTOP UNIT	12.5 ton	11	4,000 CFM	1,000 CFM	0.80 in-wg	135,100 Btu/h	84,700 Btu/h	2	R-410A	2,231 lb	80 A	65 A	208/3/60	HES	GC	CARRIER	48CFN14C2M5	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYS ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT MOUNTED CONVENIENCE RECEPTACLE, REHEAT, PROVIDE WITH HUMID-MIZER.

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	2,550 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,300 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	3,800 CFM	3,800 CFM	0 CFM	500 CFM
RTU-2	4,000 CFM	3,000 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION DIVERSION.

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 DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	NOTES
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD.
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD. REMOVE 4-WAY DEFLECTORS
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	PROVIDE WITH INTEGRAL OBD.
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD.
RS1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RS2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE WITH CONCEALED MOUNTING AND FACE ACCESSIBLE OBD.
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	510H	PROVIDE WITH INTEGRAL OBD.

CHPTOLE MEXCAN GRILL, INC.
 PO BOX 16246
 COLUMBUS, OH 43216-2460
 TEL: (614) 318-3500
 INTERNET: WWW.CHPTOLE.COM

STORE NO.: 5235
 CANE ISLAND PARKWAY
 KATY, TX 77494

Issue Reason:

08/26/2024	PERMIT SET
09/06/2024	BID SET

Revisions:

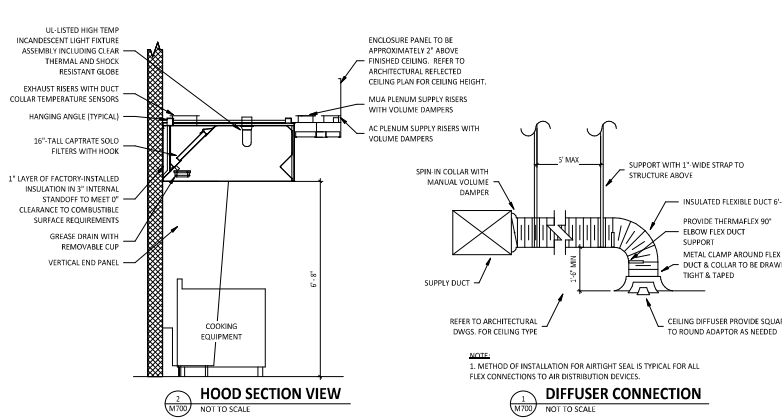
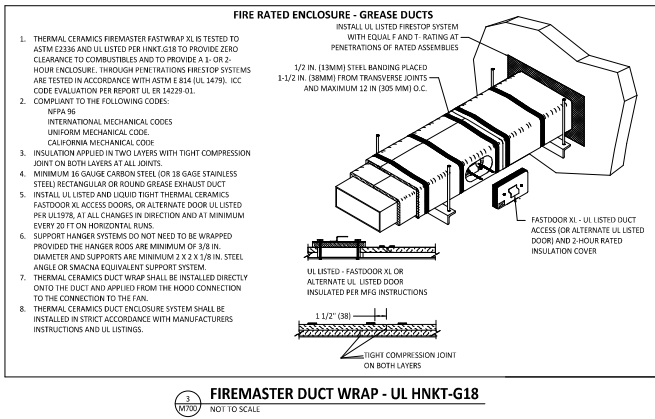
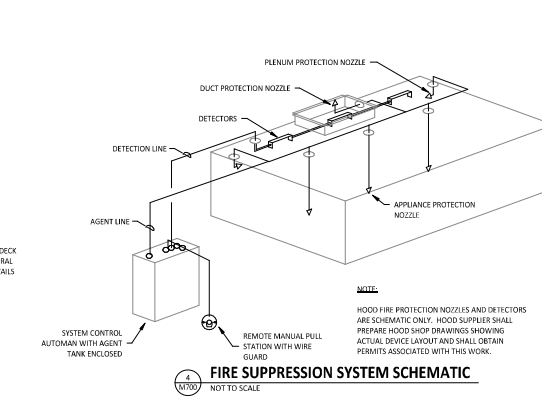
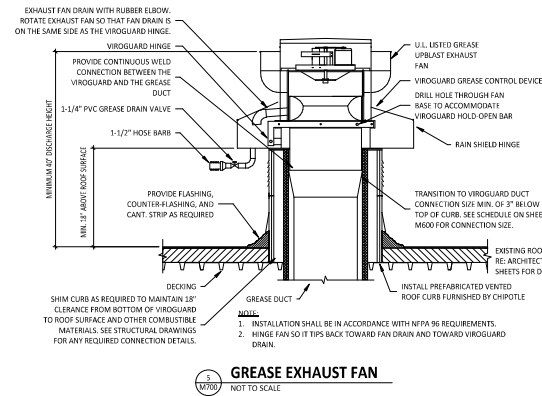
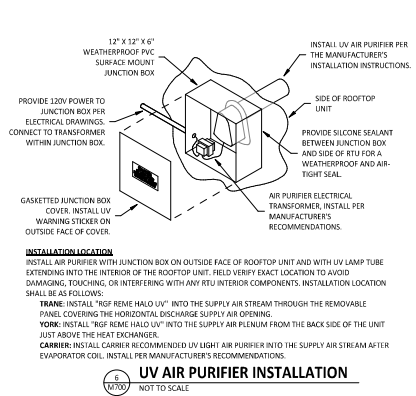
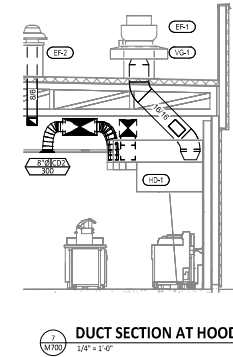
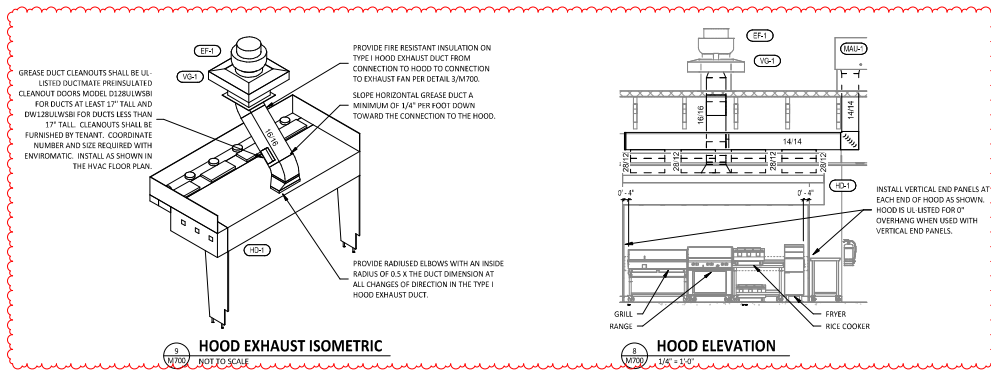
Date	Description
05/09/2025	CONST. BULLETIN 1

Drawn: _____
 HEW
 D/R

GPD Project No.: 20230157
 CWS Store No.: 5235

HVAC SCHEDULES

M600



Issue Reason:	08/26/2024	PERMIT SET
	09/06/2024	BID SET

Date	Description
05/09/2025	CONST. BULLETIN 1

Drawn:	Checked:
HEW	DJR

GIS Project No.:	CMS Store No.:
202300157	5235

HVAC DETAILS

M700

SECTION 15055 - COMMON PIPING REQUIREMENTS

- PART 1 - GENERAL**
1. SECTION REQUIREMENTS
 A. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
 A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
 B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approved for fire protection systems.
 C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approved for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
 A. Install 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 unions 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 insulate fittings to connect piping materials of dissimilar metals in water piping.
 I. Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons 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 at 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 systems piping independent of other piping.
 E. Load Distribution: Install hangers and supports to piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION

- PART 1 - GENERAL**
1. SECTION REQUIREMENTS
 A. Submittals: None.
 B. Quality Assurance: Label with maximum flame-spread rating of 25 and maximum smoke developing 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: Unidirectional polyethylene, preformed pipe insulation. Comply with ASTM C 334, Type 1, 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 glass 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 connections.
 2. Fire protection piping systems.
 3. Sanitary drainages and vent piping.
 4. Chrome plated pipes and strainers, except for plumbing fixtures for the disabled.
 5. Piping specialties, including air chambers, unions, strainers, check valves, plug 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. P-Trap and Toilet Supplies for public hand sinks: Non-compliant pre-formed insulation.
END OF SECTION 15080

SECTION 15110 - VALVES

- PART 1 - GENERAL (Not Applicable)**
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
 A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.4 for bronze valves. Solder joint connections shall comply with ANSI B16.18.
 B. Ball Valves: Rated for 150 psig working steam pressure, 400 psig WOG pressure, 2 piece construction, with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TPE" seats and seals, blowout proof stem, and vinyl covered steel handle.
 C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.
 D. Swing Check Valves: Class 125, cast bronze body and cap, with horizontal swing, Y pattern, and bronze disc.
 E. Valves for Copper Tube: Threaded 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 shutoff duty and ball for throttling duty.
 B. Locate valves for easy access and operation; provide 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 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 15110

SECTION 15140 - DOMESTIC WATER PIPING

- PART 1 - GENERAL**
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 R100 for where those materials are to be used)
 A. Hard Copper Tubes: ASTM B 88, Types 1 and 4, water tube, drawn temper.
 B. PVC Plastic Water Pipe: ASTM D 1785, Schedule 40, plain ends.
2.2 FITTINGS
 A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
 B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
 C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.
 D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal slots, with ball and socket joint, metal to metal sealing surfaces, and solder joint, threaded, and solder joint and threaded ends. Threading complying with ASME B 1.20.1.
 E. PVC Plastic, Schedule 80, Socket Type Pipe Fittings: ASTM D 2467.
2.3 JOINING MATERIALS
 A. Solder: Filter Metal: ASTM B 32, lead free.
 B. Braze: Filter Metal: AWS-B5.8, alloy to suit system requirements.
 C. Solvent Cements: As recommended by manufacturer.
 D. Plastic Pipe Seals: ASTM J 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 on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having traps indicated, and elsewhere as indicated.
 C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
 D. Install swing check valves at discharge side of each pump and elsewhere as indicated.
 E. Install ball valves in each hot water circulating loop 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 inspect water distribution piping following procedures of authorities having jurisdiction.
END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING

- PART 1 - GENERAL**
1. SECTION REQUIREMENTS
 A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.
 B. Comply with NSF 14 "Plastic Piping Components and Related Materials."
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
 A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2.2 FITTINGS
 A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, make to ASTM D 3331; socket type; drain, waste, and vent pipe fittings.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
 A. Install cleavage and extension to grade at connection of building sanitary drain and building sanitary sewer.
 B. Locate drainage piping runs as close as possible to bottom of floor slabs supporting fixtures or drains.
3.2 INSPECTION
 A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15198 - NATURAL GAS PIPING

- PART 1 - GENERAL**
1. SECTION REQUIREMENTS
 A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIALTIES
 A. Steel Pipe: ASTM A 53, Type 1 (Elasticity), Grade B, Schedule 40, plain ends.
 B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
 C. Manual Valves: Comply with standards listed or, as appropriate, to ANSI Z21.15.
 D. Gas Stops: AGA certified, bronze body, plug type with bronze plug, for 2-psig or less natural gas. Include AGA 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-grip type.
 F. Gas Pressure Regulators: ANSI Z21.18, angle stage, steel jacketed, corrosion resistant pressure regulators. Include atmospheric vent, elevation compensator, regulator pressure ratings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity are as indicated.
 G. Line Gas Pressure Regulators: Inlet pressure rating not less than system pressure.
 H. Flexible Connectors: ANSI Z21.24, copper alloy.
 I. Strainers: Bronze body, Y pattern, full size of connecting piping. Include stainless steel screens with 3/64 inch perforations and a pressure rating of 125-psig, minimum. WOG working pressure.
PART 3 - EXECUTION
3.1 INSTALLATION
 A. Close equipment shutoff valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.
 B. Install shutoff valve, downstream from gas meter, outside building at gas service entrance.
 C. Install gas stops for shutoff to appliances with NPS 2" or smaller low pressure gas supply.
 D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas meters. 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 or side 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 shutoff 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 Installation, Testing, and Purging", and requirements of authorities having jurisdiction.
END OF SECTION 15198

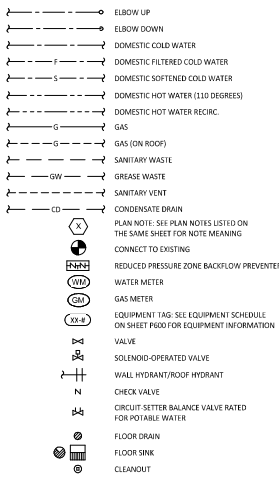
SECTION 15410 - PLUMBING FIXTURES

- PART 1 - GENERAL**
1. SECTION REQUIREMENTS
 Submittals: None.
 A. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
 B. Comply with applicable standards below:
 1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
 2. National Sanitation Foundation Construction: NSF2.
PART 2 - PRODUCTS
2.1 PIPES AND TUBES (See Material Schedule on sheet R100 for where those materials are to be used)
 A. Hard Copper Tubes: ASTM B 88, Types 1 and 4, water tube, drawn temper.
 B. Vitreous Enamelled Fixtures: ASME A112.19.2M.
 C. Slip Resistant Bathing Surfaces: ASTM F 462.
 D. Brass Copper Tubes: ASME A112.19.3M.
 E. Vitreous Plastic Water Pipe: ASME A112.19.2M.
2.2 FITTINGS
2.1 REFER TO THE FIXTURE SCHEDULE ON DRAWING P600
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 casework.
 G. Treat the trap or substrate within pipe space behind fixture.
 H. Set stop basins in leveling bed of cement grout.
 I. Install individual supply inlets, supply stops, supply hangers, 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 escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
 M. Install piping connections between plumbing fixtures and pipe systems and plumbing equipment. Install insulation on supplies and drains at fixtures for the disabled.
 N. Ground equipment. Tighten electrical connections and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15554 - FLUES AND VENTS

- PART 1 - GENERAL**
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 material.
 B. Accessories: Tees, elbows, increasers, drop hoods, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, chimneys, firestopping spacers, and fasteners; fabricated of similar materials and design as wall-mount 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 15554

PLUMBING SYMBOLS



PLUMBING ABBREVIATIONS

- EQ: EXISTING
- ABV: ABOVE
- ADA: AMERICANS WITH DISABILITIES ACT
- AFG: ABOVE FINISHED FLOOR
- ARG: ABOVE FINISHED GRADE
- AH: AUTHORITY HAVING JURISDICTION
- BFF: BELOW FINISHED FLOOR
- BFG: BELOW FINISHED GRADE
- BHM: BACK OF HOUSE
- CTC: CONNECT TO EXISTING
- CW: DOMESTIC COLD WATER
- DN: DOWN
- EXTS: EXISTING
- FCO: FLOOR CLEANOUT
- FD: FLOOR DRAIN
- FLR: FLOOR
- FHM: FRONT OF HOUSE
- FS: FLOOR SLIP
- FW: DOMESTIC FILTERED COLD WATER
- GFCO: GREEN CLEANOUT
- GT: GREASE TRAP
- GI: GREASE INTERCEPTOR
- GT: GREASE TRAP
- GW: GREASE WASTE
- GYP: GYPSUM BOARD
- HW: DOMESTIC HOT WATER
- HTS: HOT TO SCALD
- LN: OVERHEAD
- DAN: SANITARY WASTE

PLUMBING ABBREVIATIONS

- ST: STEAM DRAIN
- SW: DOMESTIC SOFTENED COLD WATER
- TP: TYPICAL
- UND: UNDERGROUND
- UNO: UNLESS NOTED OTHERWISE
- WT: WITH
- WC: WALK-IN COOLER
- COZAS: TENANTS CO2 ALARM SUPPLIER
- GEN: GENERAL CONTRACTOR
- HTS: TENANTS HVAC EQUIPMENT SUPPLIER
- HS: TENANTS HOOD SUPPLIER
- KES: TENANTS KITCHEN EQUIPMENT SUPPLIER
- LAMBLO: GENERAL CONTRACTOR
- MSS: TENANTS MUSIC SYSTEMS SUPPLIER
- SFS: TENANTS SODA POP SUPPLIER
- TBS: TENANTS TEST AND BALANCE VENDOR
- TCC: TENANTS CABLING CONTRACTOR
- TDC: TENANTS DUCT CLEANER
- TMS: TENANTS ELEVATOR SYSTEM SUPPLIER
- TELS: TENANTS LIGHT/AMP SUPPLIER
- TMB: TENANTS MENU BOARD SUPPLIER
- TMS: TENANTS MILLWORK SUPPLIER
- TP: TENANTS PHONE SUPPLIER
- TPS: TENANTS PANELBOARD SUPPLIER
- TYS: TENANTS RAILING SUPPLIER
- TBY: TENANTS SIGN VENDOR
- UNO: UNLESS NOTED OTHERWISE
- WVC: TENANTS VAV SVLWAZER SUPPLIER
- WUC: TENANTS WALK-IN COOLER SUPPLIER
- WHS: TENANTS WATER HEATER SUPPLIER



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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 PREVALENT 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 PIPES SHALL BE INSTALLED LEVEL.
- F. PROVIDE SHUT OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FITTING.
- F. PROVIDE STOP VALVES AT FIXTURES.
- G. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON SHEET P100.
- 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. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
- J. INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL R77000.
- K. PROVIDE GAS SHUT OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEE AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
- L. PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE BRASS FEP.
- M. 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, BELLES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
- N. THE TERM "TURNISH" 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, ADJUSTING, MOVING, TO DEMONSTRATE, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- O. PRIOR TO CONNECTION TO AN EXISTING SEWER SYSTEM PERFORM A DYE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
- P. PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
- Q. INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILING IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILING.

PLUMBING MATERIAL SCHEDULE

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

Drawn:	Checked:
HEW	DJR
GPD Project No.:	CMS Store No.:
202301157	5235

PLUMBING SPECIFICATIONS

P010

PLUMBING SUPPLY PLAN NOTES

- SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE, METER, AND PIPE.
- PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 100" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-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 1/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 36" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT S112-72WA 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.
- PROVIDE NEW GAS METER (BY LL). SEE CIVIL UTILITY PLAN FOR ON-SITE GAS ROUTING.
- PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
- SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/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 (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 4/P700.
- PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.

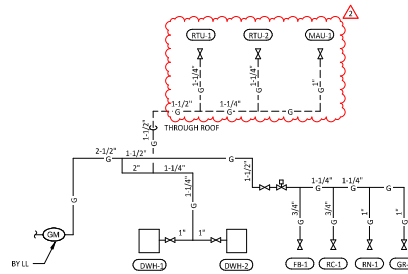
PLUMBING SUPPLY PLAN NOTES

- CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
- PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET 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 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 (BRASSCRAFT S112-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
- INSTALL RGF IM5B 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 ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- INSTALL RGF IM5B ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IM5B BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
- PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
- PROVIDE ACCESSIBLE TRAP PRIMER ABOVE 6'-6" CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPES TO FLOOR DRAIN TRAP PRIMER CONNECTIONS) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAINS.)
- REPLACE STOCK WATER CLOSET HANDLE WITH UNIVERSAL CABLE-OPERATED HANDLE (FLUSHMATE JF30050D OR AP303004 - FIELD VERIFY COMPATIBILITY WITH FLUSHMATE SYSTEM IN WATER CLOSET).

PLUMBING GAS CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE	EQUIVALENT LENGTH	INPUT	
DWH-1	WATER HEATER (GAS TANKLESS)	3/4"	65'	199,000 Btu/h	
DWH-2	WATER HEATER (GAS TANKLESS)	3/4"	65'	199,000 Btu/h	
FB-1	GAS FRYER	3/4"	65'	90,000 Btu/h	
GR-1	GAS GRIDDLE	3/4"	95'	110,000 Btu/h	
MAU-1	DIRECT FIRED MAKEUP AIR UNIT	3/4"	70'	91,600 Btu/h	
RC-1	RICE COOKER	3/4"	90'	33,000 Btu/h	
RH-1	BURNER RANGE	3/4"	95'	110,000 Btu/h	
RTU-1	KITCHEN ROOFTOP UNIT	3/4"	50'	180,000 Btu/h	
RTU-2	DINING ROOM ROOFTOP UNIT	3/4"	60'	140,000 Btu/h	
GRAND TOTAL				MAX 95'	1,244,600 Btu/h

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



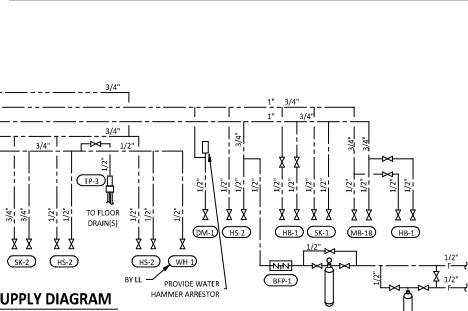
GAS DISTRIBUTION DIAGRAM

NOT TO SCALE

- NOTE:
 ITEMS SHOWN AS "BY LL" ARE PROVIDED AND INSTALLED BY GC PER LANDLORD CONTRACT.

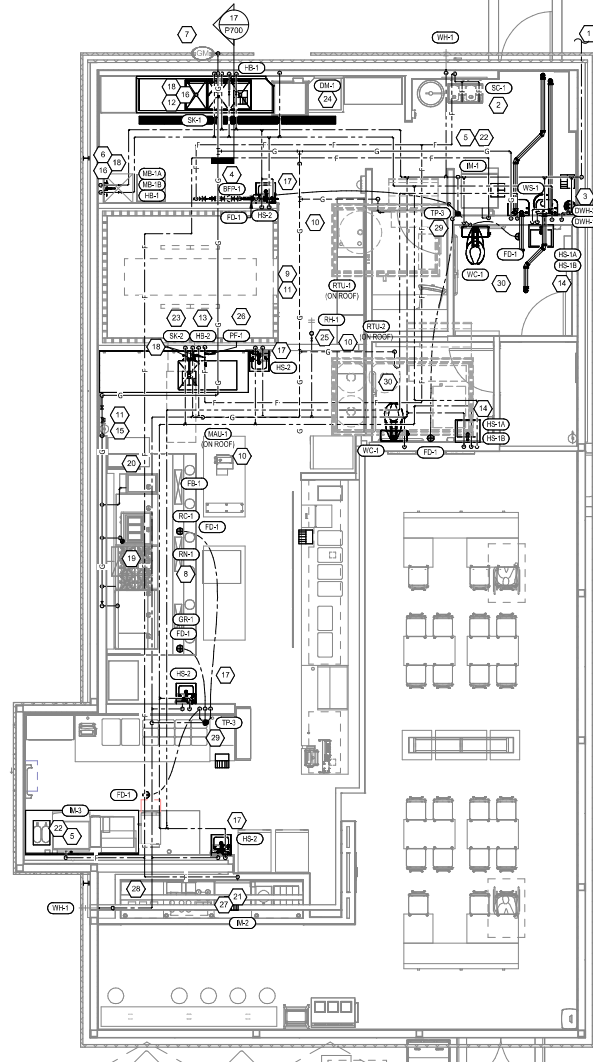
PLUMBING FIXTURE SUPPLY CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE		ROUGH-IN TYPE	WSPU		TOTAL COUNT	TOTAL WSPU	
		CW	HW		CW	HW			
BFP-1	RP2 BACKFLOW PREVENTER	1/2"	DIRECT	0	0	0	1	0	
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	0"	1/2"	HOSE 1/2"	0	3	3	1	3
ET-1	EXPANSION TANK	3/4"	DIRECT	0	0	0	1	0	
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"	MIP	2.25	2.25	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"	1/2"	MIP	1.5	1.5	1	1.5	1.5
HS-1B	RESTROOM HAND SINK FAUCET (OUTLET)	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	2	4
IM-1	ICE MAKER - BOH	1/2"	1/2"	HOSE 1/2"	1	1	1	1	1
IM-2	ICE MAKER - SODA	1/2"	1/2"	HOSE 1/2"	1	1	1	1	1
IM-3	ICE MAKER - SODA	1/2"	1/2"	HOSE 1/2"	1	1	1	1	1
IMB-1B	MOP SINK FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	3
PF-1	SPEED FILL FAUCET	3/8"	3/8"	MIP	1.5	1.5	1	1.5	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"	DIRECT	1	1	1	1	1	
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	1/2"	1/2"	ANGLE 3/8"	1	1	1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	4
TP-3	TRAP PRIMER (THREE-FLOOR FLOOR DRAINS)	1/2"	DIRECT	0	0	0	2	0	
WC-1	WATER CLOSET	1/2"	1/2"	ANGLE 3/8"	2	2	2	2	4
WH-1	FREEZE PROOF WALL HYDRANT	3/4"	DIRECT	1	1	1	2	2	
WS-1	WATER SOFTNER	1"	DIRECT	0	0	0	1	0	
GRAND TOTAL								46	



PLUMBING SUPPLY DIAGRAM

NOT TO SCALE



PLUMBING SUPPLY PLAN

1/8" = 1'-0"



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09/06/2024	BID SET	

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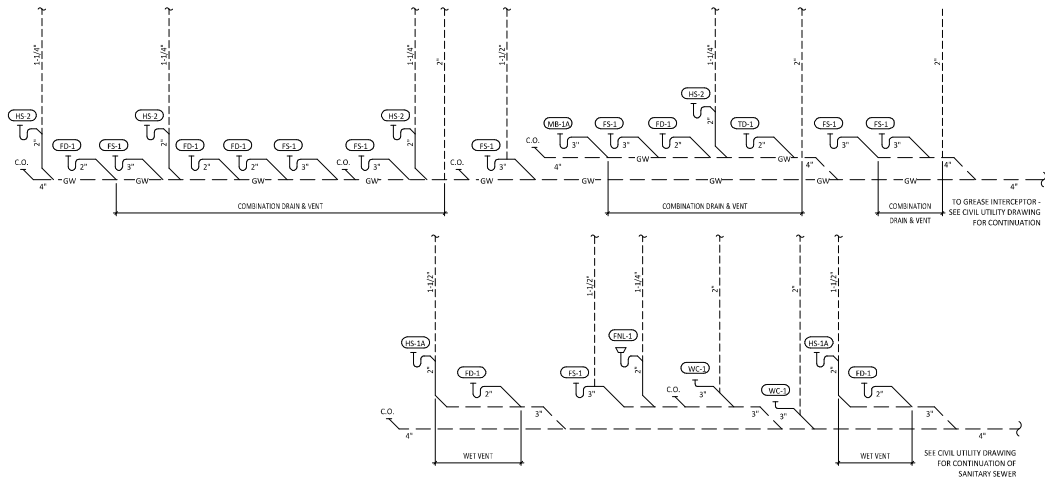
PLUMBING PLAN
 WATER & GAS
P100

PLUMBING WASTE AND VENT PLAN NOTES

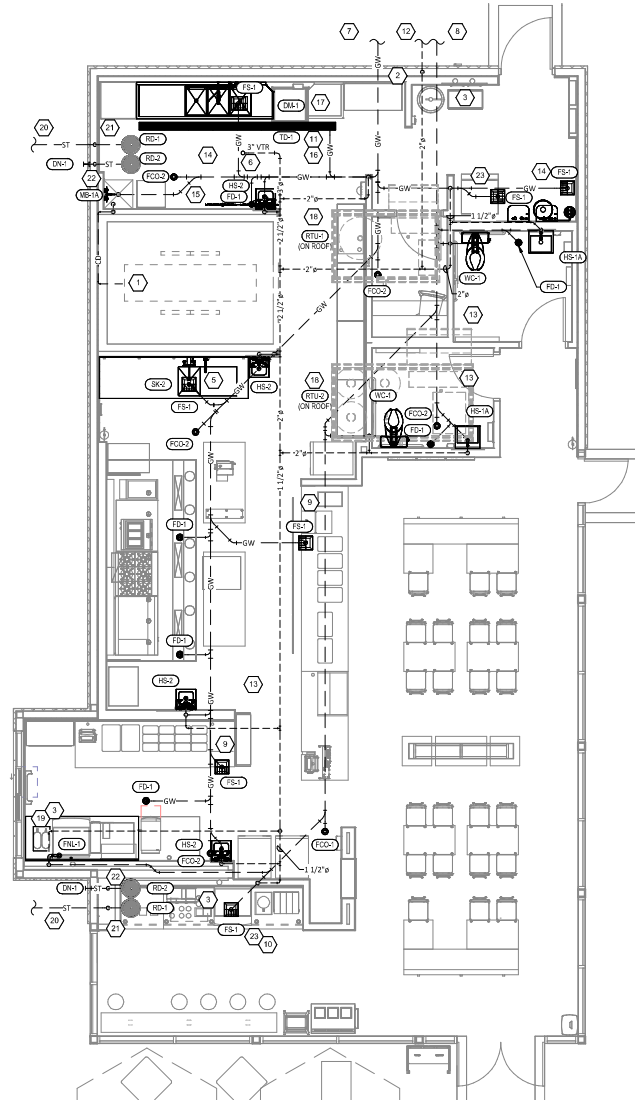
1. PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE SLOP SINK BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFF.
2. PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.
3. COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.
4. NOT USED.
5. PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
6. PROVIDE A 2" VENT THROUGH THE ROOF PER DETAIL 3/P700.
7. PROVIDE GREASE INTERCEPTOR GI-1 (BY UL). SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION AND FOR CONTINUATION OF 4" GREASE WASTE PIPE TO GI-1.
8. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER.
9. PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
10. PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.
11. TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.
12. PROVIDE 2" VENT TO GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION.
13. DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
14. PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
15. PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
16. PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.
17. 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.
18. PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.
19. SEE DETAIL 16/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.
20. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" STORM SEWER.
21. LL TO PROVIDE 3" STORM DRAIN CONDUCTOR FROM PRIMARY ROOF DRAIN RD-1 DOWN IN WALL TO 4" STORM DRAIN BELOW GRADE. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.
22. LL TO PROVIDE 3" STORM DRAIN CONDUCTOR FROM SECONDARY ROOF DRAIN RD-2 TO DOWNSPOUT NOZZLE ON 2" INSULATED AT 32" AIG. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.
23. PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE AN CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.

PLUMBING FIXTURE WASTE CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
DM-1	DISH SANITIZING MACHINE (PREPARED OUTLET)	5/8"	7	1	7
FCO-1	FLOOR CLEANOUT (3")	3"	0	1	0
FCO-2	FLOOR CLEANOUT (4")	4"	0	5	0
FD-1	FLOOR DRAIN	2"	2	6	12
FNL-3	FUNNEL DRAIN	2"	2	1	2
FS-1	FLOOR SINK	3"	5	7	35
GI-1	GREASE INTERCEPTOR	4"	0	1	0
HS-1A	RESTROOM HAND SINK	2"	1	2	2
HS-2	KITCHEN HAND SINK	2"	1	4	4
MB-3A	MOP BASKET	2"	2	1	2
SK-1	THREE COMPARTMENT SINK	2"	0	1	0
SK-2	PREP SINK	2"	0	1	0
TD-1	TRENCH DRAIN	2"	2	1	2
WC-1	WATER CLOSET	3"	4	2	8
GRAND TOTAL					74



SANITARY WASTE & VENT DIAGRAM
NOT TO SCALE



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



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Comments:	

PLUMBING PLAN WASTE & VENT

P110



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PLUMBING
SCHEDULES

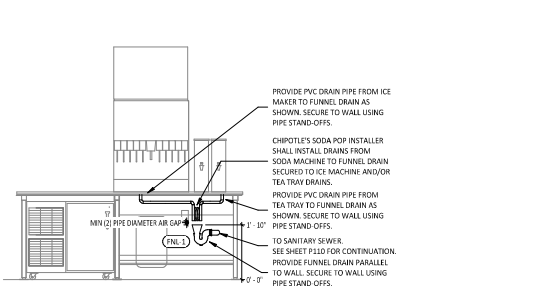
P600

PLUMBING FIXTURE SCHEDULE

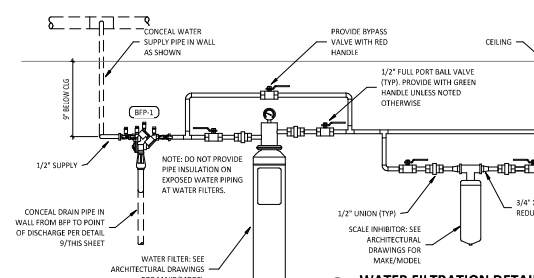
TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	COUNT	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE FIXTURE UNITS
				MANUFACTURER	MODEL			CW	HW	WASTE	CW	HW	TOTAL	
BFP-1	RPT BACKFLOW PREVENTER	GC	GC	CONBRACO	44LF-203-1ZF	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			0	0	0	
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1	0"	1/2"	5/8"	0	3	3	7
DN-1	DOWNSPOUT NOZZLE	GC	GC	WALTS	RD-950	STAINLESS STEEL DOWNSPOUT COVER WITH PERFORATED HINGED STRAINER	2			3"				
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0		0	
FB-1	GAS FEEDER	KES	GC	SEE ARCH	--		1							
FCO-1	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 (ON APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	1			3"				0
FCO-2	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 (ON APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	5			4"				0
FD-1	FLOOR DRAIN	GC	GC	SIoux CHIEF	842-2-PNR	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC TRAP PRIMER PORT	6	1/2"		2"				2
FDL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"				2
FS-1	FLOOR SINK	GC	GC	SIoux CHIEF	861-3PUZ	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	7			3"				5
GI-1	GREASE INTERCEPTOR	GC	GC	CUSTOM	--	1,500 GALLON PRECAST GREASE INTERCEPTOR	1			4"				0
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	1		1/2"	1/2"		2.25	2.25	3
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	ADA ACCESSIBLE, WALL MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-0 FOR BACK TO BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	2	1/2"	1/2"					
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	ADA ACCESSIBLE, WALL MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-0 FOR BACK TO BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	1	1/2"				1.5	1.5	
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024-001EC	ADA ACCESSIBLE, WALL MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-0 FOR BACK TO BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2			2"				1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	PLUG-IN AUTOMATIC FAUCET WITH 5 GPM AIRATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS TO 15 SECOND DELAY AND 30 SECOND TRIP-OUT DELAY.	2	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	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
IM-1	ICE MAKER - BOH	KES	KES	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1			1
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)	1	1/2"			1			1
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE MOUNTED ICE MACHINE (REMOTE AIR COOLED)	1	1/2"			1			1
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 VOIDES BETWEEN THE MOP BASIN AND THE SLAB.	1			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL MOUNTED POT FILLER W/ SELF CLOSING FILLER VALVE AND NPT FEMALE INLET	1	3/8"			1.5	1.5		
RC-1	RICE COOKER	KES	GC	SEE ARCH	--		1							
RD-1	ROOF DRAIN (PRIMARY)	GC	GC	WATTS	RD-103	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET	2			3"				
RD-2	ROOF DRAIN (OVERFLOW)	GC	GC	WATTS	RD-103-W	EPOXY COATED CAST IRON OVERFLOW ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL 4 IN. (101MM) HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET	2			3"				
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEFTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. HOEFTNER PRODUCTS (408) 847-7615	1	3/4"			1			1
RN-1	8 BURNER RANGE	KES	GC	SEE ARCH	--		1		1/2"					
SC-1	BACK-IN-BODY SODA RACK WITH CARBONATORS	SFS	SFS	SEE ARCH	--	SODA CARBONATOR(S) SHALL HAVE AN INTEGRAL ASSE 1022-8410 CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.	1	1/2"			1			1
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE COMPARTMENT WARE WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET.	1	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	2888-8601-8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P100 FOR REVISION TO 2" DRAIN CONNECTION.	1	3/4"	3/4"	2"				2
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.	2	1/2"			0	0		
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3510 W/ SEAT	WHITE PORCELAIN 3.0 GPF, 17-1/2" HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD .4A TO THE MODEL #FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	2			4
WH-1	FREEZE 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.	2	3/4"			1			1
WS-1	WATER SOFTENER	KES	GC	CUNO	CTSM1254E	POINT OF ENTRY HIGH CAPACITY WATER TREATMENT SYSTEM. PROVIDE STARTUP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	1	1"			0	0		

WATER HEATER SCHEDULE

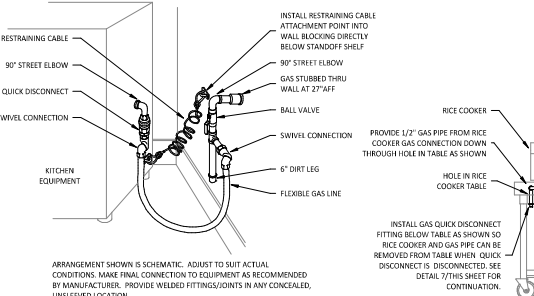
TAG	DESCRIPTION	NATURAL GAS		ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	CONNECTION SIZE	FLA	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"		120/1/60	GC	GC	NAVEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 90% PROVIDE WITH LEAD FREE "PLUMB EAST VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).
DWH-2	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"		120/1/60	GC	GC	NAVEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 90% PROVIDE WITH LEAD FREE "PLUMB EAST VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).



18 PUW FUNNEL DRAIN DETAIL
NOT TO SCALE

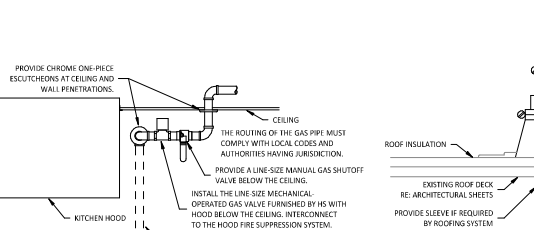


11 WATER FILTRATION DETAIL
NOT TO SCALE



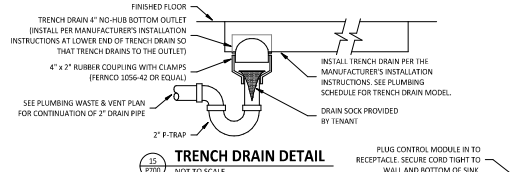
7 KITCHEN GAS EQUIPMENT DETAIL
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8 RICE COOKER GAS CONNECTION DETAIL
NOT TO SCALE

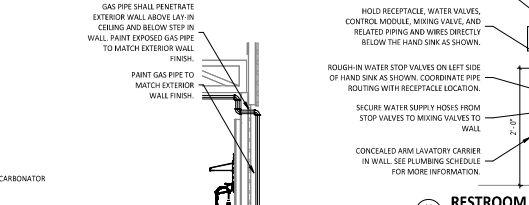


4 KITCHEN GAS SHUTOFF DETAIL
NOT TO SCALE

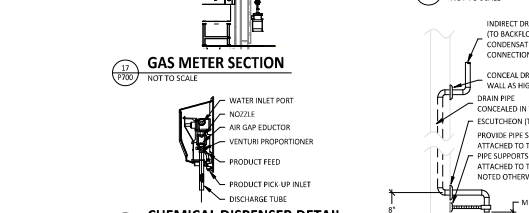
1 VENT THROUGH ROOF
NOT TO SCALE



TRENCH DRAIN DETAIL
NOT TO SCALE



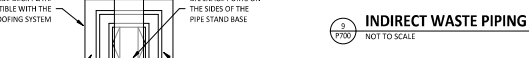
14 RESTROOM HAND SINK DETAIL
NOT TO SCALE



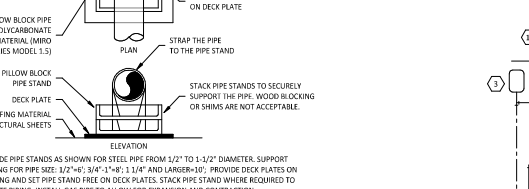
17 GAS METER SECTION
NOT TO SCALE



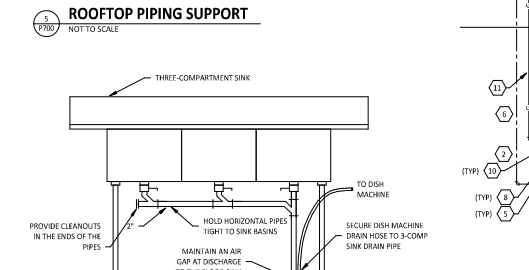
10 CHEMICAL DISPENSER DETAIL
NOT TO SCALE



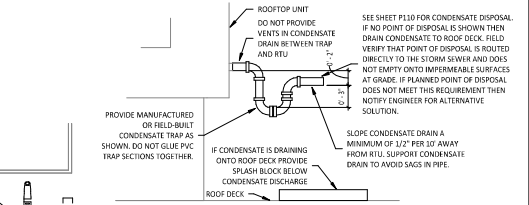
9 INDIRECT WASTE PIPING DETAIL
NOT TO SCALE



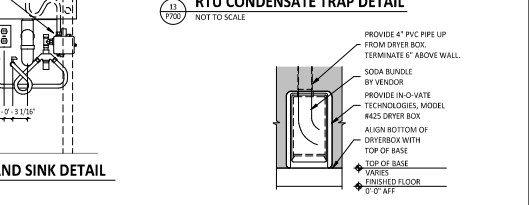
6 ROOFTOP PIPING SUPPORT
NOT TO SCALE



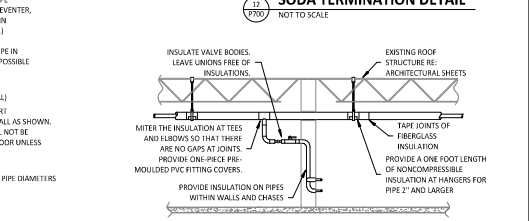
1 WARE-WASHING SINK DETAIL
NOT TO SCALE



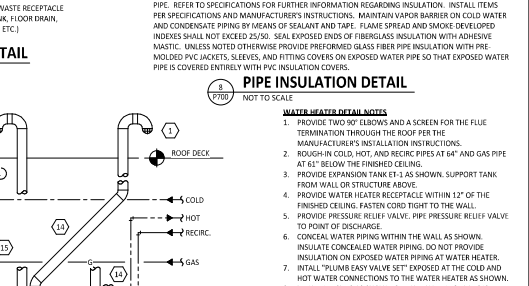
13 RTU CONDENSATE TRAP DETAIL
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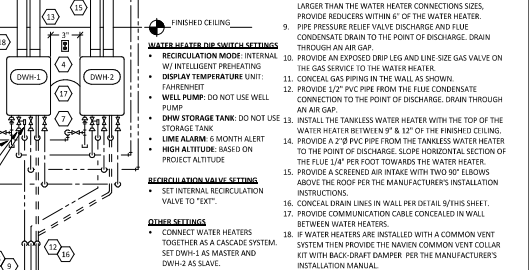
12 SODA TERMINATION DETAIL
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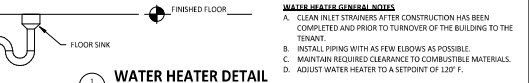
8 PIPE INSULATION DETAIL
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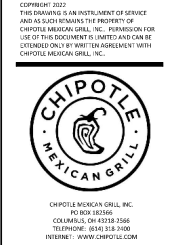
1 WATER HEATER DETAIL
NOT TO SCALE



1 WATER HEATER DETAIL
NOT TO SCALE



1 WATER HEATER DETAIL
NOT TO SCALE



STORE NO.: 5235
CANE ISLAND PARKWAY
KATY, TX 77494

Issue Reason:	08/26/2024	PERMIT SET
Revisions:	09/06/2024	BID SET
Date		Description

Drawn:	Checked:
HEW	DIR
GPD Project No.:	CMS Store No.:
20230157	5235

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. SPD: Single Pole, Double Throw
1.2 USE CHARGES
 A. General: Cost of use charges for temporary facilities are non 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. Architect.
 4. Engineer.
 5. Testing agencies.
 6. Personnel of authorities having jurisdiction.
1.3 NOTIFICATION
 A. Coordinate with Tenant to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.
1.4 QUALITY ASSURANCE
 A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 704.
 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 electric service. Install utility to comply with NFPA 70.
 3. Comply with OSHA standards and regulations.

- PART 2 - PRODUCTS**
2.1 MATERIALS
 A. Electrical Ducts: Properly configured, NEMA-plasticated conduits to prevent insertion of 100- 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 125 V ac, 20-A voltage and lighting circuits 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 KS 1 to meet environmental conditions of installed location.
 1. Outdoor locations: NEMA 250, Type 3R.

- PART 3 - EXECUTION**
3.1 INSTALLATION
 A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overvoltage protecting disconnecting means.
 1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
 B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
 1. 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-voltage ratio.
 2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduit for wiring exposed on grades, floors, decks, or other traffic areas.
 3. Provide metal conduit enclosures or boxes for wiring devices.
 4. Provide 4-gang outlets, spaced at 100-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
 C. 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 safety and protection requirements without operating in system.
 2. Provide 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
 3. Install exterior yard 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 16020 - 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 3.
 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 3.
 2. Assembly of Stranded Conductors: ASTM B 8.
2.2 CONNECTION PRODUCTS
 A. Comply with IEEE 802 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.
PART 3 - EXECUTION
3.1 APPLICATION
 A. Use only copper conductors.
 B. In raceways, use insulated equipment grounding conductors.
 C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
 D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
 1. Use insulated spacers: 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 the door frame, then, 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 tests, tests, or methods are specified that are more restrictive than that required by NFPA 70 are indicated.
3.3 INSTALLATION
 A. Grounding Conductors: Route along chases and straighten paths where 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 twisted pressure-type connectors.
 C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-lightening 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 compressing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
 END OF SECTION 16020

SECTION 16100 - WIRING METHODS

- PART 1 - GENERAL**
1.1 SECTION REQUIREMENTS
 A. Summary: Building wiring and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable and raceways and 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 RACEWAYS
 A. Wireways: Screwed cover type, with manufacturers standard finish.
 B. Outlet 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 hatch. Finish inside and out with manufacturer's standard enamel.
 B. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
 C. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
 D. 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.
 E. Raceway Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1-inch concrete cover.
PART 3 - EXECUTION
3.1 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. Raceway 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 nearby surfaces or structural members, and follow the surface contours as much as practical.
 H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or welds at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
 I. Install raceways in empty raceways. Use No. 14 NM-B non-coated steel or monomental 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 fit 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 that of adjacent plates or surfaces.
 K. Stub-up 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 each piece of equipment.
3.2 IDENTIFYING 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: Preinsulated, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contrast, side by side.
 2. Band Locations: At changes in direction, at penetrations 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. Phase A: 208V / 277/480V
 2. Phase B: Red / Brown
 3. Phase C: Blue / Yellow
 4. Neutral: White / Gray
 5. Ground: Green / 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 E010.
 C. Receptacles: Heavy duty grade, NEMA WDS, Configuration 5-20R unless otherwise indicated.
 D. Ground-Fault Circuit Interrupter Receptacles: Integral duplex receptacle, for installation in box without an adapter. Feed-through type, with a 3/16-inch, dead-end outlet.
 E. Isolated-Ground Receptacles: Equipment grounding conductors connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.
 F. Snap Switches: Heavy-duty, quiet type.
 G. Wall Plate: Per Material Schedule on sheet E010.
 H. 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 secure.
 B. Mount devices 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

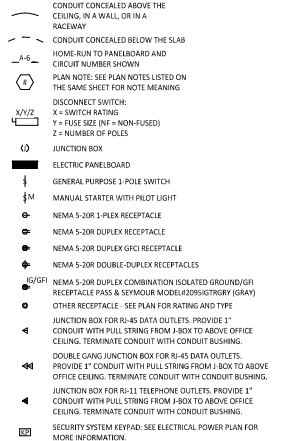
SECTION 16410 - PANELBOARDS

- 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, Controllers, 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. Receptacles: 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 purity.
 C. Moulded-Case Circuit Breakers: NEMA AB 1, plug-in type, single-handle for multiple circuit breakers. Appropriate for application, including Type 300 for repetitive switching lighting loads and Type HACR for heating, air conditioning, and refrigerating equipment.
PART 3 - EXECUTION
3.1 INSTALLATION
 A. Manufacturers: NEMA KS 2, Class A combination connectors.
PART 3 - EXECUTION
3.1 INSTALLATION
 A. Install panelboards and accessory items according to NEMA PB 1.1. Provide type, 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 Provisions at Flush Panel Boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
 D. Wiring in Panelboards: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
 E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-lightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
 F. Insulate empty raceways. Use No. 14 NM-B non-coated steel or monomental 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.
 END OF SECTION 16410

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-mounted luminaires with ceiling construction, mechanical work, 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 operating, free from light leakage under operating conditions, and arranged to permit re-banding without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-banding 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 into level, plumb, and square with ceiling and walls, and secure.
 B. Support for Recessed 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 GENERAL NOTES

- A. GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
- 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 PREVAILING CODES.
- C. WIRING SHALL BE 2X12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
- D. INDIVIDUAL CONDUIT HOME RUNS SHALL NOT BE CONSIDERED.
- E. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHES.
- 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 CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
- H. PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE ABOVE OFFICE CEILING WITH MINORAL KEYS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
- I. 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, REACHING, ANCHORING, APPOINTING, WIRING 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 ON WALL IMMEDIATELY ABOVE RECEPTABLES.
- COORDS: TENANT'S CO2 ALARM SUPPLIER
 GC: GENERAL CONTRACTOR
 HES: TENANT'S HVAC EQUIPMENT SUPPLIER
 HS: TENANT'S HOOKUP SUPPLIER
 KES: TENANT'S KITCHEN EQUIPMENT SUPPLIER
 LL: LANDLORD
 M5S: TENANT'S MUSIC SYSTEMS SUPPLIER
 N5: TENANT'S SODA TOP SUPPLIER
 TAB: TENANT'S TEST AND BALANCE VENDOR
 TCC: TENANT'S CARLING CONTRACTOR
 TDC: TENANT'S DUCT CLEANER
 TEMS: TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
 TNS: TENANT'S LIGHTLAMP SUPPLIER
 TMB: TENANT'S MENU BOARD SUPPLIER
 TMS: TENANT'S MILLWORK SUPPLIER
 TNS: TENANT'S PHONE SUPPLIER
 TNS: TENANT'S PHONE SUPPLIER
 TNS: TENANT'S PHONE SUPPLIER
 TRS: TENANT'S RAILING SUPPLIER
 TSV: TENANT'S SIGN VENDOR
 TUV: TENANT'S UP UP SIGN SUPPLIER
 TWS: TENANT'S WALK-IN COOLER SUPPLIER
 WHS: TENANT'S WATER HEATER SUPPLIER

ELECTRICAL MATERIAL SCHEDULE

CONDUCTIONS	APPLICATION	ALLOWABLE MATERIAL
#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW	
#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW	
FIELD MADE CORD (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SO SERVICE CORD WITH CU CONDUCTORS	
CONDUITS		
CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)		FLEXIBLE METAL CONDUIT
CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)		LIQUIDTIGHT FLEXIBLE METAL CONDUIT
INDOOR, CONCEALED ABOVE GRADE		ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
INDOOR, EXPOSED		ELECTRICAL METALLIC TUBING U.O.D.
INDOOR, WITHIN 1-1/2" OF ROOF DECK		INTERMEDIATE METAL CONDUIT
LOW OR LINE VOLTAGE, BELOW GRADE		RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
LOW VOLTAGE, INDOOR, ABOVE GRADE		ELECTRICAL METALLIC TUBING
OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED		INTERMEDIATE METAL CONDUIT
WIRING DEVICES		
IG OR SIG/IG RECEPTABLES		GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES		GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
IN RESTROOMS		WHITE DEVICE WITH WHITE COVER PLATE
ON DRYWALL IN DINING ROOM		WHITE DEVICE WITH WHITE COVER PLATE
ON HOT BROLLEN STEEL, RICHLITE, OR OTHER BLACK FINISHES		BLACK DEVICE WITH BLACK COVER PLATE



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Issue/Revised:

08/26/2024	PERMIT SET
09/06/2024	BID SET

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Date	Description

Drawn: Checked:
 MS GPD

GPD Project No.: CMS Store No.:
 20230157 5235

Comments:

ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL PANEL SCHEDULE: LCP

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

LIGHTING CONTROL PANEL SCHEDULE NOTES

A. DUPLICATE PANEL SCHEDULE AND PERMANENTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP FLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUTY	ARP INTENCOR NLT 8FCR (N/OLT N/UK F/IB DTC OPT/LE)	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE AND DIGITAL TIME CLOCK
WALL MOUNTED OVERRIDE SWITCH	1	TLS	GC	ACUTY	IFR00M4-4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
WALL MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SALDOP W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50% IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING. THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHM15 1-W-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

LIGHTING FIXTURE SCHEDULE

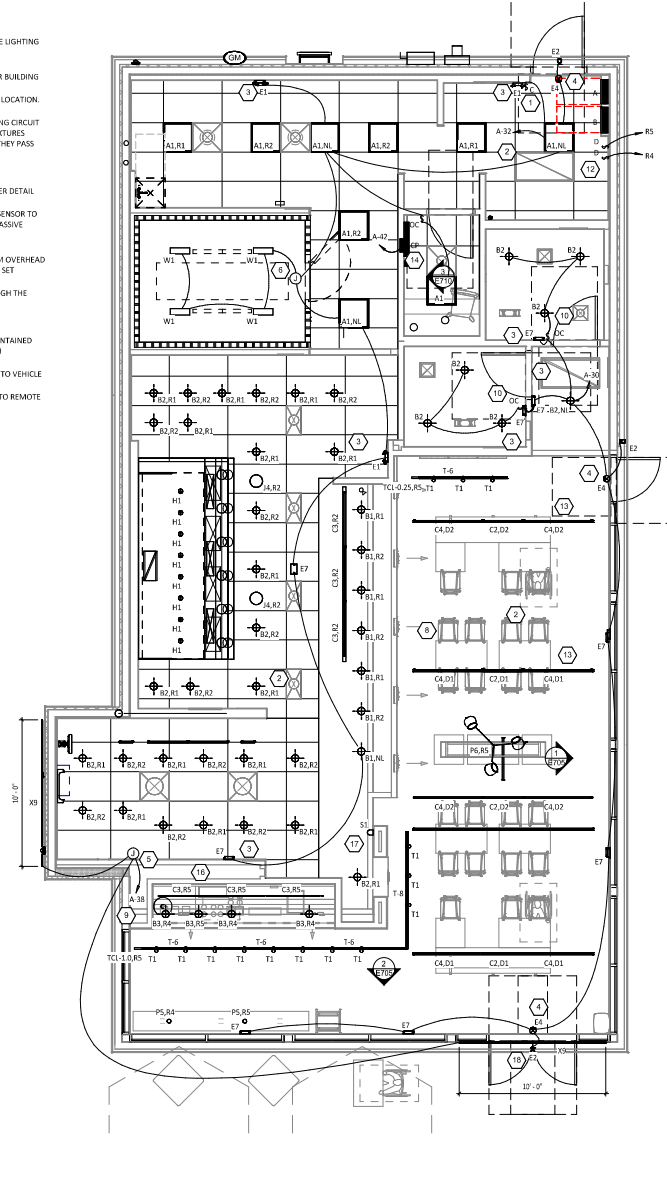
TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP	REMARKS
A1	9	2x2 LED LENSLET TROFFER	LAY-IN	120 V	30 W	TLS	GC	NOKA LIGHTING	NF08L-E224-334	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B	7	SITE POLE LIGHT	GROUND	120 V	225 W	TLS	GC	COOPER LIGHTING	GAA-AJ-04-LED-04-T4T-7030	INTEGRAL LED	
B1	7	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	TLS	GC	NOKA LIGHTING	NHC-6C24ATL W/ NTM-57W/M1	(1) 17W ECOSTRYB ECO-PAR38C-TL-GU24-27 K-25D LED (25'-2700K) W/ GU 24 BASKET	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B2	36	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	TLS	GC	NOKA LIGHTING	NHC-6C24ATL WITH NLCB-C-65130W/W LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	TLS	GC	NOKA LIGHTING	NHC-6C24ATL WITH NLCB-C-65137BB LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C8	2	LOW PROFILE LED - 1 FT	SURFACE	120 V	5 W	TLS	GC	HERA LIGHTING	EL/LED12/W/W	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION.
C2	6	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	TLS	GC	HERA LIGHTING	EL/LED34/W/W	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION.
C3	6	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	TLS	GC	HERA LIGHTING	EL/LED46/W/W	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION.
C4	8	LOW PROFILE LED - 5 FT	SURFACE	120 V	18 W	TLS	GC	HERA LIGHTING	EL/LED59/W/W	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWARE BOX OR CORD/PLUG PER SECTION.
E1	3	EMERGENCY LIGHT - DUAL HEAD	VARIABLE	120 V	2 W	TLS	GC	EXITRONIX	LED-R0	INTEGRAL LED	90 MINUTE BATTERY BACKUP.
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	4 V	1 W	TLS	GC	EXITRONIX	MLED1-B-WP	INTEGRAL LED	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE CAPABLE EXIT SIGN WITH MOUNTING PLATE.
E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT STANDARD RED LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	CLED4-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	9	EMERGENCY LIGHT	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
G4	1	PATIO POLE LIGHT	GROUND	120 V	10 W	TLS	GC	RAB LIGHTING	(1) ALED10W W/ PSK-11-2002-PD/LE	INTEGRAL LED	SEE PLAN FOR LAMP HEAD ORIENTATION. REFER TO ARCHITECTURAL SHEETS FOR FINISH AND INSTALLATION DETAIL.
H1	8	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	HS/TLS	HS	FURNISHED W/ HOOD	(1) TCF 11643N1527K	INTEGRAL LED	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER.
J1	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	TLS	GC	BARNLIGHT	BLE-C-CP10-ASH-100-5 BK-100-CAW	INTEGRAL LED	GREEN CREATIVE 94190W/927/GU24/R
P5	2	PENDANT	PENDANT	120 V	5 W	TLS	GC	HI-LITE MFG	HL-C-91/CB12-91/20W/8B	INTEGRAL LED	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS.
P6	1	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	TLS	GC	BARNLIGHT	BLE-C-JCT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF 18 HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES.
S1	1	DRIVE-UP PICK-UP WINDOW CHIM/STROBE	WALL	36 V	0 W	TLS	GC	FEDERAL SIGNAL	SIMS00R W/ SIM8W-Q12-024	INTEGRAL	SET SWITCH A TO "CHIME 1 SINGLE" [10111] AND SWITCH B TO "CHIME 2 SINGLE" [00111]
T1	14	TRACK HEAD	TRACK	120 V	10 W	TLS	GC	JUNO	R605L 30K 90CR PDIM W/ BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM.
T-6	4	TRACK (6 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 6 FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-8	1	TRACK (8 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 8 FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.2 S	1	TRACK CURRENT LIMITER (50W)	SURFACE	120 V	30 W	TLS	GC	JUNO	TCLFM11 BL W/ TCCB D-5A BLACK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER.
TCL-1.0	1	TRACK CURRENT LIMITER (100W)	SURFACE	120 V	110 W	TLS	GC	JUNO	TCLFM11 BL W/ TCCB D-5A BLACK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER.
W1	4	W/C LED LIGHT	SURFACE	120 V	29 W	WES	GC	FURNISHED W/ W/C	FURNISHED W/ W/C	INTEGRAL LED	WET-BATED COOLER FIXTURE
X9	2	EXTERIOR LED CHANNEL LIGHT	SURFACE	120 V	45 W	TLS	GC	PARADIGM LED	AMC-2416S-W END CAPS	FLEXSR-45-30-67-24	FURNISHED W/ REMOTE-MOUNTED NEMA 3R LED DRIVER. SEE PLAN FOR LENGTHS. GC TO INSTALL LIGHTS PER LL CONTRACTOR.

LIGHTING FIXTURE SCHEDULE NOTES

A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

1. INSTALL WALL MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710.
2. FOR UNCLUTTERED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3. WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
4. VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH-IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5. INSTALL LED DRIVERS FURNISHED WITH THE X9 LED STRIP LIGHTS ON WALL 8" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM LED DRIVER TO THE X9 LIGHT FIXTURES AS SHOWN.
6. INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
7. NOT USED.
8. PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL, TYPICAL.
9. CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.
10. 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.
11. NOT USED.
12. INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED AND PENDANT LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
13. CONNECT DINING ROOM (RELAY CIRCUITS RA AND RS) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
14. INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
15. NOT USED.
16. PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 3" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR OVERHEAD WALL LOCATION.
17. INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
18. INSTALL E3 REMOTE EMERGENCY LIGHT TO BOTTOM OF CANOPY. CONCEAL LOW VOLTAGE WIRING FROM EXT SIGN TO REMOTE EMERGENCY LIGHT.



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



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Issue Reason:
08/26/2024 PERMIT SET
09/06/2024 BID SET

Revisions:	Date	Description

Drawn: Checked:
MS GPD

GPD Project No.: CWS Store No.:
20230157 5235

ELECTRICAL LIGHTING PLAN

E100



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1	07/03/2025	CONST. BULLETIN 2

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CNS Store No: 5235

ELECTRICAL POWER PLAN

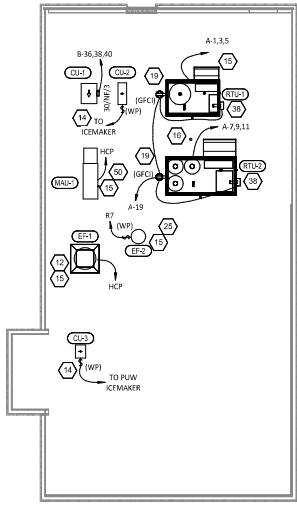
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ELECTRICAL POWER PLAN NOTES

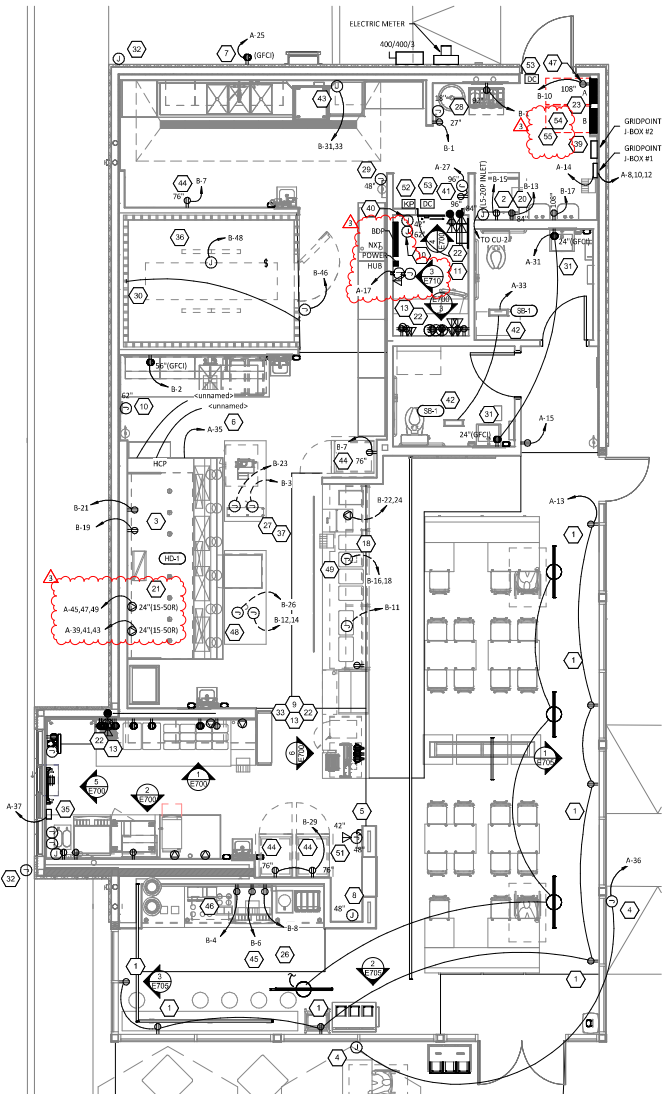
- 1 SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRIVELINE IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E710.
- 2 ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE 15-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH 15-20P 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 E710.
- 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 MARSHALL PRIOR TO ROUGH-IN.
- 6 HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 7 PROVIDE A DUPLEX GFCI RECEPTACLE WITH WEATHERPROOF HUBS IN USE OUTLET COVER FOR IRRIGATION CONTROLLER.
- 8 PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
- 9 COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN. PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2 1/8" DEEP OCTAGONIC J-BOX WITH 1/2" 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.
- 10 PROVIDE (2) EMPTY 2" CONDUITS WITH PULL STRINGS FROM THE BASE BUILDING'S TELEPHONE AND DATA SERVICES ENTRANCE LOCATIONS TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.
- 11 PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN F-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIRGOGUARD SYSTEM IS INSTALLED.
- 12 AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED J-RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.
- 13 PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.
- 14 UNITS SHALL HAVE AN INTEGRAL, NON-FUSED DISCONNECT SWITCH.
- 15 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 1/2" X 12" 16-HOLE GROUNDING BUSBAR (BUNNY BRACKET OR EQUIVA) MOUNTED TO CONDUIT ABOVE ROOF FOR FUTURE CONNECTION OF LIGHTNING ARRESTORS. PROVIDE #2 CU GROUND FROM BUSBAR TO MAIN ELECTRODE GROUNDING.
- 16 NOT USED.
- 17 ROUGH-IN TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- 18 ROOF TOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.
- 19 ICE MAKER RECEPTACLE SHALL BE COORDINATED WITH THE ICE MAKER. COORDINATE LOCATION WITH THE ICE MAKER.
- 20 CONNECT DUAL-SIDED PLANCHA RECEPTACLES TO THE CIRCUITS SHOWN THROUGH THE 60A/6-POLE CONTACTOR ABOVE THE PANELBOARD AND THE SHOCK-BLOCK GFCI DEVICES ADJACENT TO THE PANELBOARD. CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM. PROVIDE HUBBELL TYPIC MXP2150S WEATHERPROOF OUTLET COVER ON RECEPTACLES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
- 21 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED; DISCONNECT AT PANEL BDP".
- 22 LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL".
- 23 NOT USED.
- 24 CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).
- 25 INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER VOL. TAG SETTING TO BE 15 WATTS.
- 26 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.
- 27 PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY COZAS AS SHOWN IN DETAIL 4/E710.
- 28 PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY COZAS AS SHOWN IN DETAIL 4/E710.

ELECTRICAL POWER PLAN NOTES

- 30 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.
- 31 PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.
- 32 PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.
- 33 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.
- 34 NOT USED.
- 35 INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TFS SURFACE-MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.
- 36 SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE TFC.
- 37 PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.
- 38 INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.
- 39 PROVIDE (2) 10"x10"x4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE OFFICE CEILING AND MOUNTED ADJACENT TO EACH PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL E710. TENS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT (CON)HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.
- 40 PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL E710.
- 41 INSTALL WIRED DOOR BUZZER AT 80" 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.
- 42 CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.
- 43 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 44 PROVIDE RECEPTACLE FOR 2 DOOR AND 1 DOOR REFRIGERATORS WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.
- 45 PROVIDE CORD AND NEMA 5-30P PULL FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.
- 46 LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/MSB", AND "SODA FOUNTAIN".
- 47 LABEL RECEPTACLE "BUG INSECT TRAP".
- 48 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.
- 49 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.
- 50 PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. AND #12, #12 N, #12 G. IN 1" C. FROM MALU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 51 PROVIDE HORIZONTAL SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.
- 52 PROVIDE A RECESSED J-BOX AT 56" 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.
- 53 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.
- 54 PROVIDE 60A/6-POLE CONTACTOR FOR CONTROL OF DUAL-SIDED PLANCHA IN AN ACCESSIBLE LOCATION ABOVE THE LAY-IN CEILING IN THE PANELBOARD AREA. CONNECT CONTACTOR TO HOOD CONTROL PANEL SO THAT THE CONTACTOR DE-ENERGIZES UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM.
- 55 INSTALL LITTELFUSE SHOCK-BLOCK GFCI DEVICES FURNISHED BY TFS IN AN ACCESSIBLE LOCATION ON WALL ADJACENT TO PANEL. FOR PROTECTION OF THE CIRCUITS FEEDING THE DUAL-SIDED PLANCHA RECEPTACLES.



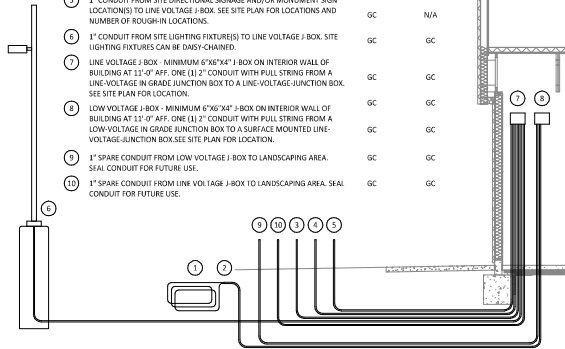
POWER ROOF PLAN
1/8" = 1'-0"



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

TAG DESCRIPTION

- ① VEHICLE DETECTOR LOOP - 6"x4" WITH 4 TURNS (8MX PR-4E-KX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPlicing. SEE SITE PLAN FOR LOCATIONS.
- ② 1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.
- ③ 1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.
- ④ 1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.
- ⑤ 1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATIONS TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.
- ⑥ 1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DASHY-CHAINED.
- ⑦ LINE VOLTAGE J-BOX - MINIMUM 6"x6"x4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. ONE (1) 1" CONDUIT WITH PULL STRING FROM A LINE-VOLTAGE IN GRADE JUNCTION BOX TO A LINE-VOLTAGE JUNCTION BOX. SEE SITE PLAN FOR LOCATION.
- ⑧ LOW VOLTAGE J-BOX - MINIMUM 6"x6"x4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. ONE (1) 1" CONDUIT WITH PULL STRING FROM A LOW-VOLTAGE IN GRADE JUNCTION BOX TO A SURFACE MOUNTED LINE-VOLTAGE JUNCTION BOX. SEE SITE PLAN FOR LOCATION.
- ⑨ 1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.
- ⑩ 1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.



② SITE CONDUIT DETAIL
NOT TO SCALE

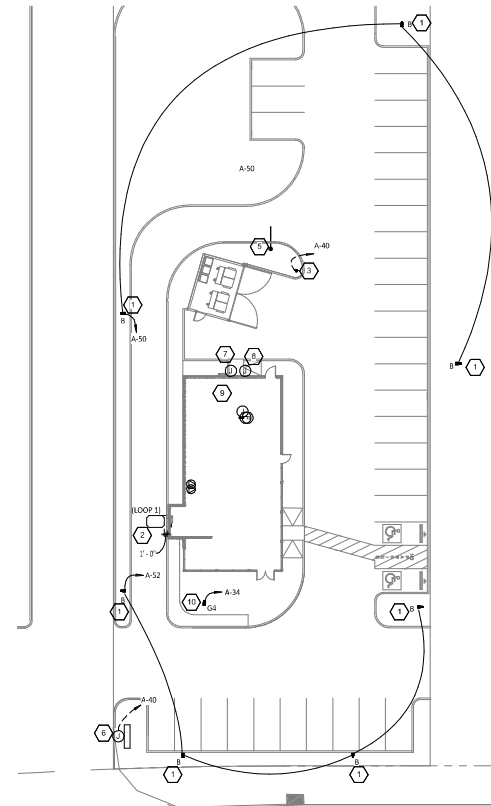
GENERAL NOTES

- A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
- B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
- C. PROVIDE PULL STRING IN EMPTY CONDUITS.
- D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.

RESPONSIBILITY	CONDUIT CONNECTION OR CONDUITS	
	NEEDS OR	CONNECTION OR CONDUITS
GC	GC	GC
GC	GC	GC
GC	GC	GC
GC	N/A	
GC	GC	GC
GC	GC	GC
GC	GC	GC
GC	GC	GC

ELECTRICAL POWER PLAN NOTES

1. SITE LIGHTING PROVIDED BY LL. SEE CIVIL DRAWINGS.
2. INSTALL VEHICLE DETECTOR LOOP FURNISHED BY ITS FOR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
3. CONNECT ANNOUNCE SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/ET10. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
4. NOT USED.
5. PROVIDE EMPTY CONDUIT WITH PULL STRING TO CLEARANCE BAR. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
6. CONNECT MONUMENT SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/ET10. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
7. GC TO PROVIDE 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
8. GC TO PROVIDE 1" SPARE LINE VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
9. GC TO PROVIDE INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
10. GC TO PROVIDE 1" CONDUIT WITH PULL STRING OUTSIDE OF BUILDING FOR PATIO LIGHTING. PULL FROM JOIST SPACE DOWN UNDERGROUND AND STUB TO LIGHT POLE LOCATION AS SHOWN. REFER TO ARCHITECTURAL PLANS FOR CONTINUATION AND EXACT LOCATION.



POWER SITE PLAN
1" = 20'-0"



STORE NO.: 5235

CANE ISLAND
128 CANE ISLAND PARKWAY
KATY, TX 77494

Issue Reason:	Permit Set
08/26/2024	PERMIT SET
09/06/2024	BID SET

Revisions:	Date	Description

Drawn:	Checked:
MS	GPD

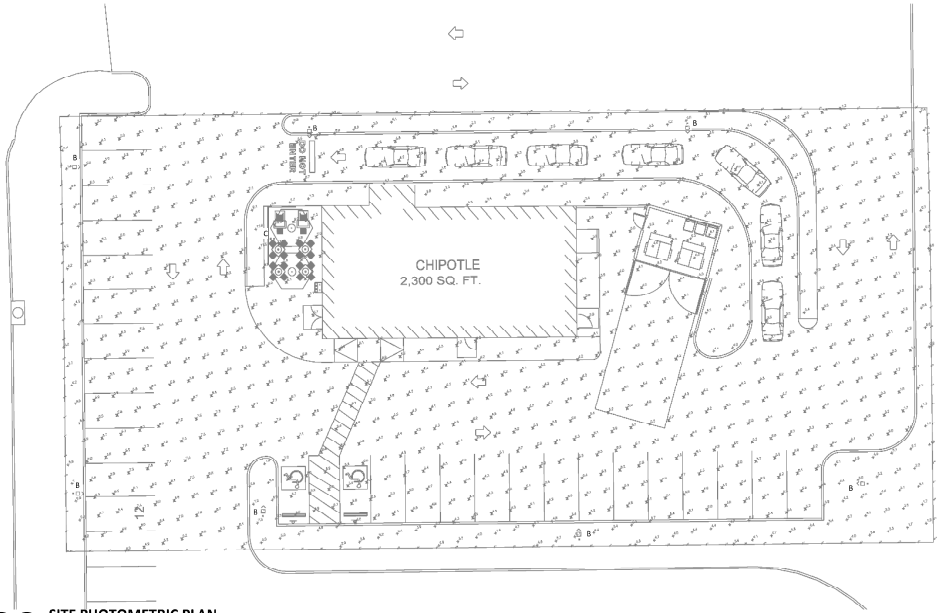
GPD Project No.	CMG Store No.
2023201.57	5235

ELECTRICAL SITE
POWER PLAN

E115

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	Lumen Multiple	Notes
	B	7	COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EXTON)	GAA-AF-04-LED-U-T4FT-7030	GALLEONNAIRE AREA AND ROADWAY LUMINAIRE (4) 70 CRI, 3000K CCT, 1050mA LIGHTS/LAMB WITH 16.1 FDS EACH AND Type IV Forward Throw OPTICS		1	23239	1	
	C	1	PAR LIGHTING INC.	[WP, AJ, EP10V			1	1207	1	

Statistics					
Description	Symbol	Avg	Max	Min	Avg/Min
Drive Aisle	+	4.8 fc	8.9 fc	0.6 fc	8.0:1
Property Line	+	3.1 fc	6.2 fc	0.3 fc	10.3:1
Patio Area	+	7.3 fc	11.3 fc	5.0 fc	1.5:1
Walkway	+	4.8 fc	6.0 fc	3.7 fc	1.3:1



SITE PHOTOMETRIC PLAN
1" = 20'-0"



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STORE NO.: 5235
CANE ISLAND
128 CANE ISLAND PARKWAY
KATY, TX 77494

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08/26/2024	PERMIT SET
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Revisions:		
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Drawn:	Checked:
MS	GPD
GPD Project No.	CMG Store No.
202320157	5235

PHOTOMETRIC PLAN

E116

