HVAC SYMBOLS LEGEND

DETAIL	DESCRIPTION
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
T / S	THERMOSTAT / SENSOR
	RECTANGULAR OR ROUND SUPPLY OR RETURN DUCT (AS NOTED)
	MANUAL BALANCE DAMPER
	RECTANGULAR TAKE-OFF FROM RECTANGULAR DUCT WITH BALANCE DAMPER
	ROUND TAKE-OFF FROM DUCT WITH MANUAL BALANCE DAMPER
	TURNING VANES
A / 600 — DEVICE TYPE / CFM	AIR DEVICE DESIGNATION SEE SHEET M3.0
RTU / 600 — EQUIPMENT TYPE / DESIGNATION NUMBER	EQUIPMENT DESIGNATION SEE SHEET M3.0
B.O.D.	BOTTOM OF DUCT
	SPLITTER DAMPER
UCD	UNDERCUT DOOR
MD	MOTORIZED DAMPER

AIR HANDLING EQUIP. & MATERIALS:

AIR HANDLING UNITS/ROOF TOP UNITS
AIR HANDLING UNITS/ROOF TOP UNITS SHALL BE MANUFACTURED BY THE TRANE M SERIES AND SHALL BE FURNISHED AND INSTALLED BY TENANT. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING DELIVERY, PROVIDING COMPLETE INSTALLATION INCLUDING PIPING, VIBRATION ISOLATION AND NECESSARY ACCESSORIES, AND PROVIDING WARRANTY.

FILTERS
PROVIDE THREE (3) SETS OF PLEATED DISPOSABLE FILTERS. USE ONE SET UNTIL COMPLETION OF CONSTRUCTION. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION AND DELIVER ONE SET OF FILTERS TO POTBELLY LABELED TO DENOTE THEIR RESPECTIVE AIR HANDLING UNIT. FILTERS TO BE FARR, OR SIMILAR.

EXHAUST FANS
PROVIDED TO THE SITE BY VENDOR. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING DISCHARGE LOCATION WITH NEW AND EXISTING VENTS AND INTAKES, PROVIDING COMPLETE INSTALLATION INCLUDING CURBS, BACKDRAFT, DAMPER AND DUCTWORK FROM RESTROOM GRILLE TO UNIT AND NECESSARY ACCESSORIES, AND PROVIDING WARRANTY. EXHAUST FAN(S) TO BE OPERATED ¨IN CONJUNCTION WITH AIR HANDLING UNIT(S). ROUTE FAN WIRING VIA FAN CONTROL RELAY TO BE INTERLOCKED WITH PROGRAMMABLE THERMOSTAT. PROVIDE CONTROL RELAY (HONEYWELL R8222 OR EQUIVALENT) AND 24VAC CONTROL POWER SUPPLY WITH OVERLOAD PROTECTION. INSTALL POWER SUPPLY (GENSCO #MAR24020XFMR OR EQ) AND FAN CONTROL RELAY ADJACENT TO ONE ANOTHER IN ACCESSIBLE CEILING SPACE AND EXTEND LOW VOLTAGE WIRING BETWEEN AUXILIARY RELAY PROVIDED WITH PROGRAMMABLE THERMOSTAT AND FAN CONTROL RELAY. COORDINATE ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR.

AIR CURTAINS
AIR CURTAINS, WHEN REQUIRED, SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF POWER CONNECTION.

DUCTWORK & ACCESSORIES:

SHEETMETAL DUCTWORK
ALL DUCTWORK TO BE RIGID SHEET METAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTBOARD IS NOT ALLOWED. ALL EXPOSED DUCTWORK TO BE ROUND, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE, AS SHOWN ON HVAC PLAN SHEET M2.0. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER. MOUNT DUCTWORK AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE. (NO SQUARE THROAT ELBOWS SHALL BE INSTALLED WITHOUT DOUBLE THICKNESS TURNING VANES.) ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE LOADED TYPE VINYL, VIBRATION ELIMINATION CONNECTIONS, (F.C.) FLEXIBLE CONNECTIONS. DUCTWORK TRANSITIONS SHALL BE (FOT) "FLAT ON TOP" UNLESS OTHERWISE SPECIFIED ON PLAN. ALL BRANCH SUPPLY DUCTS SHALL HAVE (VD) MANUAL VOLUME DAMPERS INSTALLED FOR BALANCING, SEE SYMBOL LIST. ALL ROOF PENETRATIONS EXCEEDING 12" X 12" IN SIZE SHALL BE FURNISHED WITH BURGLAR BARS. ALL CONTRACTOR FABRICATED AND MANUFACTURER FABRICATED COMPONENTS OF THE OUTSIDE AIR, SUPPLY AIR, RETURN AIR AND EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AIR-TIGHT. THE INSTALLED SYSTEMS SHALL BE PRESSURE TESTED AS SPECIFIED. PIPE OPENINGS IN SYSTEM COMPONENT SHALL HAVE SHEET METAL BAFFLES, SET IN SEALANT, TO PREVENT LEAKAGE. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR OUTSIDE DIMENSIONS.

DUCT SEALANT
SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NONMIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC.

SUPPORTS
PROVIDE HOT-DIPPED GALVANIZED STEEL, FASTENERS, ANCHORS. RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK.

DAMPERS
PROVIDE OPPOSED-BLADE, MULTI-LEAF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS AND AT POINTS ON LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS. PROVIDE UL LISTED AND FIRE/SMOKE DAMPERS WHERE REQUIRED AND IN ACCORDANCE WITH NFPA AND LOCAL CODES. PROVIDE CONVENIENTLY LOCATED ACCESS DOORS OF AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS. INSTALL PER UL GUIDELINES.

GRILLES, REGISTERS & DIFFUSERS
GRILLES, REGISTERS AND DIFFUSERS SHALL BE MANUFACTURED BY TITUS AND SHALL BE GC SUPPLIED (UON). DIFFUSERS IN METAL PANEL CEILING TO BE ORDERED IN SILVER MILL FINISH. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED IN THIS PROJECT.

THERMAL INSULATION
PROVIDE EXTERNAL THERMAL INSULATION WITH AN INTEGRAL VAPOR BARRIER FACING OF SUFFICIENT THICKNESS TO MEET LOCAL ENERGY CODE REQUIREMENTS. PROVIDE INSULATION ON EXHAUST AND OUTSIDE AIR DUCTS, AND ON CONCEALED PORTIONS OF SUPPLY AND RETURN AIR DUCTS. DO NOT INSULATE EXPOSED DUCTWORK AND PORTIONS OF DUCTWORK THAT ARE INTERNALLY LINED. THERMAL INSULATION TO COMPLY WITH AN NFPA FLAME SPREAD OF 25 OR LESS, AND SMOKE DEVELOPED NO GREATER THAN 50.

ACOUSTICAL DUCT LINER
UNLESS OTHERWISE INDICATED ON THE PLANS, PROVIDE MINIMUM OF R-5.6 GLASS FIBER ACOUSTICAL DUCT LINER ON SUPPLY AND RETURN DUCTWORK WITHIN 10 FEET OF THE DISCHARGE AND INTAKE OF AIR HANDLING UNITS. INCREASE DUCT SIZED INDICATED ON PLANS AS NEEDED IN EACH DIMENSION TO ACCOMMODATE LINER. LINER SHALL BE FASTENED TO DUCT WITH MECHANICAL LINER FASTENERS IN ACCORDANCE WITH SMAGNA.

DAMPER CONTROL
CONTRACTOR TO ENSURE THAT ALL ELECTRICAL CONNECTIONS TO MECHANICAL DAMPERS ARE CONNECTED.

FIRE PROTECTION SYSTEM:

1. THIS CONTRACTOR SHALL CAREFULLY REVIEW WORK LETTER TO DETERMINE SCOPE OF WORK. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS AS NECESSARY TO MAKE MODIFICATIONS TO LANDLORD PROVIDED SYSTEM.
2. THIS CONTRACTOR SHALL MODIFY EXISTING UPRIGHT SPRINKLER HEAD IN DROP CEILING(PLASTER) LOCATIONS TO FULLY RECESSED SPRINKLER HEADS. RELOCATE UPRIGHT HEADS IN OPEN CEILING AREA TO MAINTAIN FULL AREA COVERAGE.
3. THIS CONTRACTOR SHALL PROVIDE PERMITTING FOR FINAL HYDRAULIC CALCULATIONS AND HEAD LOCATIONS BASED UPON FINAL DESIGN BY CONTRACTOR AND SUBMIT TO LOCAL OR STATE BUILDING DEPARTMENT AS REQUIRED FOR APPROVAL.
4. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
5. SPRINKLER PIPING SHALL BE ROUTED TO AVOID CONFLICTS WITH NEW AND EXISTING DUCTWORK, PIPING CONDUITS AND LIGHTING LAYOUT.
6. SPRINKLER CONTRACTOR SHALL OBTAIN DUCTWORK SHOP DRAWING FROM HVAC CONTRACTOR AND COORDINATE ROUTING OF SPRINKLER PIPING. ANY RELOCATION REQUIRED BY SPRINKLER CONTRACTOR'S FAILURE TO COORDINATE SHALL BE DONE AT NO EXTRA COST OR DELAY TO THE OWNER. GENERAL CONTRACTOR TO COORDINATE.
7. FINAL CONSTRUCTION DOCUMENTS, HYDRAULIC CALCULATIONS AND PERMITTING SHALL BE BY THE SPRINKLER CONTRACTOR.
8. IF REQUIRED: INSTALL INSPECTOR TEST CONNECTIONS PIPED TO FUNNEL DRAIN OR MOP SINK.
9. ONLY ONE CONNECTION SHALL BE MADE TO MALL SPRINKLER MAIN. FIELD VERIFY EXACT LOCATION.
10. IF REQUIRED: TENANT SPRINKLER SYSTEM SHUT-OFF VALVE AND VALVE TAMPER SWITCH TO FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR.
11. SPRINKLER CONTRACTOR SHALL PERFORM ALL WORK PER LANDLORD'S CRITERIA.
12. ALL WORK TO BE APPROVED BY LOCAL FIRE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR APPROVAL TO ENGINEER, TENANT, AND LOCAL FIRE DEPARTMENT.
13. ALL PERMITS FEES ETC. BY CONTRACTOR.
14. A FIRE PROTECTION ENGINEER TO PREPARE SET OF CERTIFIED STAMPED SHOP DRAWINGS OF DESIGN.
15. ALL SPRINKLER HEADS TO BE QUICK RESPONSE TYPE.
16. PROVIDE METAL CAGE OVER ALL SPRINKLERS IN COOLER / FREEZER.

- RECESSED/CONCEALED SPRINKLER HEAD (NEW)
- UPRIGHT SPRINKLER HEAD (NEW)
- UPRIGHT SPRINKLER HEAD (ETR)
- SPRINKLER HEAD WITH CAGE

CONSTRUCTION AND BIDDING NOTES:

1. THE HVAC CONTRACTOR SHALL INSTALL HVAC SYSTEMS AS SHOWN, NOTED AND SPECIFIED. EQUIPMENT MAY NOT BE SUBSTITUTED UNLESS WRITTEN APPROVAL BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE IS OBTAINED. ANY CHANGES TO THE DUCTWORK LAYOUT WILL NECESSITATE SUBMISSION OF SHEET METAL SHOP DRAWINGS FOR ENGINEER'S REVIEW. ANY UNAUTHORIZED CHANGES WILL BE REMOVED AT CONTRACTOR'S EXPENSE, IF DEEMED NECESSARY BY ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE.
2. THE HVAC CONTRACTOR SHALL COORDINATE DUCTWORK INSTALLATION WITH ARCHITECT/OWNER'S REPRESENTATIVE IN FIELD AND OTHER TRADES. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS.
3. ALL DUCTWORK AND PIPING SHALL BE ROUTED ABOVE THE SUSPENDED CEILING SPACE UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 15'-0" AWAY FROM EXHAUST DISCHARGE OPENINGS AND PLUMBING VENT STACKS, AND MINIMUM 10' ABOVE GRADE.
5. CORE-DRILL OR SAW-CUT EXISTING WALLS, ROOF, ETC. AS REQUIRED FOR PIPING OR DUCTWORK AND FIRE-STOP OPENING AROUND PIPE OR DUCTWORK. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING OR CUTTING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
6. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE CUT FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.
7. THE MECHANICAL SYSTEMS SHALL BE COMPLETE WITH ALL NECESSARY APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.
8. AN INDEPENDENT AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR SYSTEMS TO PROVIDE AIR INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS. A NEBB OR AABE CERTIFIED SUPERVISOR SHALL BE IN CHARGE OF WORK. SUBMIT TWO (2) COPIES OF THE BALANCE REPORT TO THE ENGINEER FOR APPROVAL. INCLUDE A COPY OF THE BALANCE REPORT AS APPROVED BY THE ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT.
9. THIS CONTRACTOR SHALL OBTAIN A COPY OF THE WORK LETTER FROM THE PSW CONSTRUCTION MANAGER PRIOR TO SUBMISSION OF THE BID. THIS CONTRACTOR SHALL SUBMIT SAID WORKLETTER AS EVIDENCE OF HAVING REVIEWED CONTRACTORS RESPONSIBILITIES WITHIN SCOPE OF WORK. ANY DISCREPANCIES BETWEEN THE WORKLETTER AND THE DESIGN DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE PSW CONSTRUCTION MANAGER, BEFORE BID DUE DATE.
10. SCOPE
THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT RELATED TO THE INSTALLATION OF THE MECHANICAL WORK.
11. SITE EXAMINATION
THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK.
12. STANDARDS
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ARL, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
13. CODES
ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO POTBELLY.

1. PERMITS AND FEES
THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL WORK.
2. WARRANTY
THE CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY POTBELLY AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

THERMOSTAT:

CONTROL WIRING
THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING IN CONDUIT NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM.

THERMOSTAT
THERMOSTAT(S) SHALL BE PROGRAMMABLE ZONE SENSOR, ITEM #KT7351F2127. (1) TO BE PROVIDED PER HVAC UNIT. MULTISTAGE SEVEN DAY PROGRAMMABLE THERMOSTAT.
REMOTE SENSOR(S) SHALL BE HONEYWELL, ITEM #TR21-A.(2) PER HVAC UNIT.
IF PSW IS PROVIDING THE HVAC UNITS, TRANE IS TO COORDINATE AND SHIP THE THERMOSTAT/SENSORS AND G.C. IS TO INSTALL. IF PSW IS NOT PROVIDING THE HVAC UNITS, THE G.C. WILL PURCHASE, SUPPLY AND INSTALL THE THERMOSTAT/SENSORS. ONE THERMOSTAT AND TWO REMOTE SENSORS TO BE PROVIDED FOR EACH HVAC UNIT. MOUNT THERMOSTAT(S) INSIDE MANAGERS DESK CUBBY AREA UNLESS OTHERWISE NOTED.
MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT IDENTIFICATION WITH $\frac{1}{2}$" HIGH WHITE LETTERS ON KELLY GREEN OR BLACK PHENOLIC LABELS BACKGROUND, I.E. "AC-1 : CUSTOMER AREA" AND "AC-2 : WORK AREA". REFER TO THERMOSTAT SETUP INSTRUCTIONS BELOW FOR ADDITIONAL REQUIREMENTS.

THERMOSTAT SETUP INSTRUCTIONS
PROVIDE THE FOLLOWING SETUP AND PROGRAMMING ON THE THERMOSTAT:

1. INSTALL PER MANUFACTURER'S IOM.
2. SET DIP SWITCHES AND JUMPERS AS FOLLOWS:
   A. DEGREES F DISPLAY
   B. 12 HOUR CLOCK
   C. CONTINUOUS FAN OPERATION IN OCCUPIED MODE
   D. DISABLE KEYBOARD PROGRAMMING
   E. CUT JUMPER IF UNIT IS A HEAT PUMP
3. SET CLOCK AND DAY.
4. SET TO DISPLAY CURRENT TEMPERATURE.
5. START TIMES OF UNITS SHOULD BE STAGGERED IN 15 MINUTE INTERVALS TO AVOID HIGH SPIKE USAGE, WHICH RESULTS IN A HIGHER KW CHARG TO US BY UTILITY COMPANY. STANDARD SET POINT SHOULD BE 6AM & 6:15 AM FOR NON-BREAKFAST LOCATIONS. BREAKFAST LOCATIONS SHOULD HAVE START TIMES OF 5AM & 5:15AM. SET UNOCCUPIED START TIME AT 1 HOUR AFTER CLOSING. VERIFY HOURS WITH STORE MANAGER OR CONSTRUCTION MANAGER. THESE SET POINTSCAN BE SET AT THE SAME TIME FRAME. NO NEED TO STAGGER.
6. SETPOINTS SHALL BE AS FOLLOWS:

	OCCUPIED	UNOCCUPIED
HEATING	68 deg F	60 deg F
COOLING	70 deg F	85 deg F

7. ALL NEW SUPPLY, RETURN AND OUTSIDE AIR RECTANGULAR/SQUARE DUCTWORK SHALL BE INSULATED WITH 1" THICK, 2 PCF DUCT LINER. DUCT LINER SHALL BE FASTENED TO INSIDE OF DUCTWORK AS PER MANUFACTURER'S DIRECTIONS AND S.M.A.C.N.A. "DUCT LINER APPLICATION STANDARD". ALL NEW SUPPLY, RETURN AND OUTSIDE AIR ROUND/OVAL DUCTWORK , WHICH ARE NOT LINED, SHALL BE INSULATED WITH 1-1/2" THICK FLEXIBLE INSULATION, 1 PCF DENSITY FOIL REINFORCED KRAFT FACING. DUCT WRAP SHALL BE FASTENED TO DUCTWORK AS PER MANUFACTURER'S DIRECTIONS. THE ROUND BRANCH DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS SLEEVE WITH FOIL JACKET AND ALL JOINTS AND TERMINATIONS SEALED WITH FOIL OR DUCT TAPE. ROUND/OVAL SUPPLY AND RETURN DUCTWORK EXPOSED TO VIEW AND LOCATED IN THE CONDITIONED SPACE SHALL NOT BE INSULATED. EXTERIOR DUCTWORK TO BE 1-1/2" LINED AND WEATHERPROOFED. DUCTS TO BE LINED:
   a.) ALL RECTANGULAR CONCEALED AND EXPOSED SUPPLY DUCTWORK.
   b.) ALL RETURN DUCT WORK FROM GRILLES TO ROOFTOP UNITS
   c.) ALL EXHAUST DUCT RISERS TO ROOF FANS AND FOR A DISTANCE OF 5'-0" FROM VERTICAL DUCT CONNECTION.
   d.) ANY OTHER DUCTWORK SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS.
8. ALL FLEXIBLE DUCTWORK SHALL BE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. MAXIMUM STRETCHED OUT LENGTH SHALL BE 6'-0".

WALK IN FREEZER/COOLER:

COOLER INFORMATION
THE VOLUME OF THE COOLER IS 541.3 CUBIC FEET. THE COOLER USES 2.9 POUNDS R-22 REFRIGERANT. THE COOLER HAS A 1 HP MOTOR AND THE COMPRESSOR IS A SELF CONTAINED UNIT THAT IS MOUNTED ON TOP OF THE UNIT.

FREEZER INFORMATION
THE VOLUME OF THE FREEZER IS 230.4 CUBIC FEET. THE FREEZER USES 3.5 POUNDS R-404a REFRIGERANT. THE FREEZER HAS A 1.5 HP MOTOR AND THE COMPRESSOR IS A SELF CONTAINED UNIT THAT IS MOUNTED ON TOP OF THE UNIT.

ENERGY CODE COMPLETION:

DRAWINGS
WITHIN 90 DAYS OF SYSTEM ACCEPTANCE, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOOR RATES.

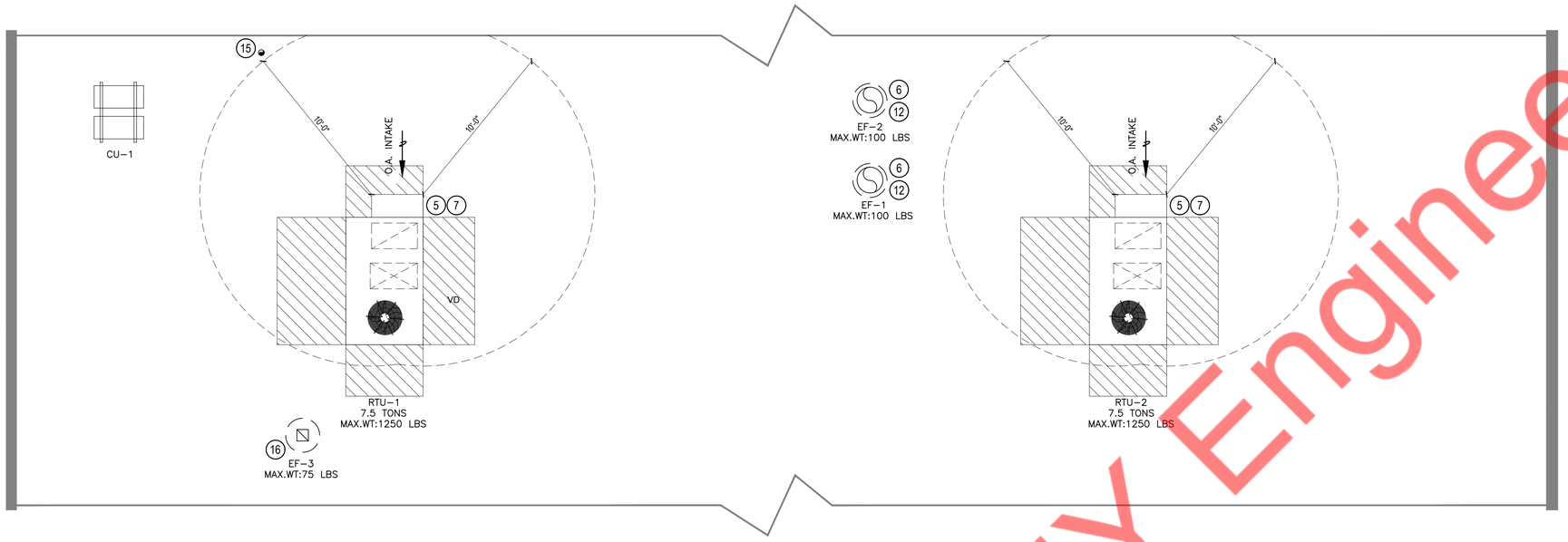
MANUAL
WITHIN 90 DAYS OF SYSTEM ACCEPTANCE, CONTRACTOR SHALL PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO THE BUILDING OWNER, OR DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY ACCEPTED STANDARDS AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
- SUBMITTAL DATA STATING EQUIPMENT SIZES AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
- HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
- A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.

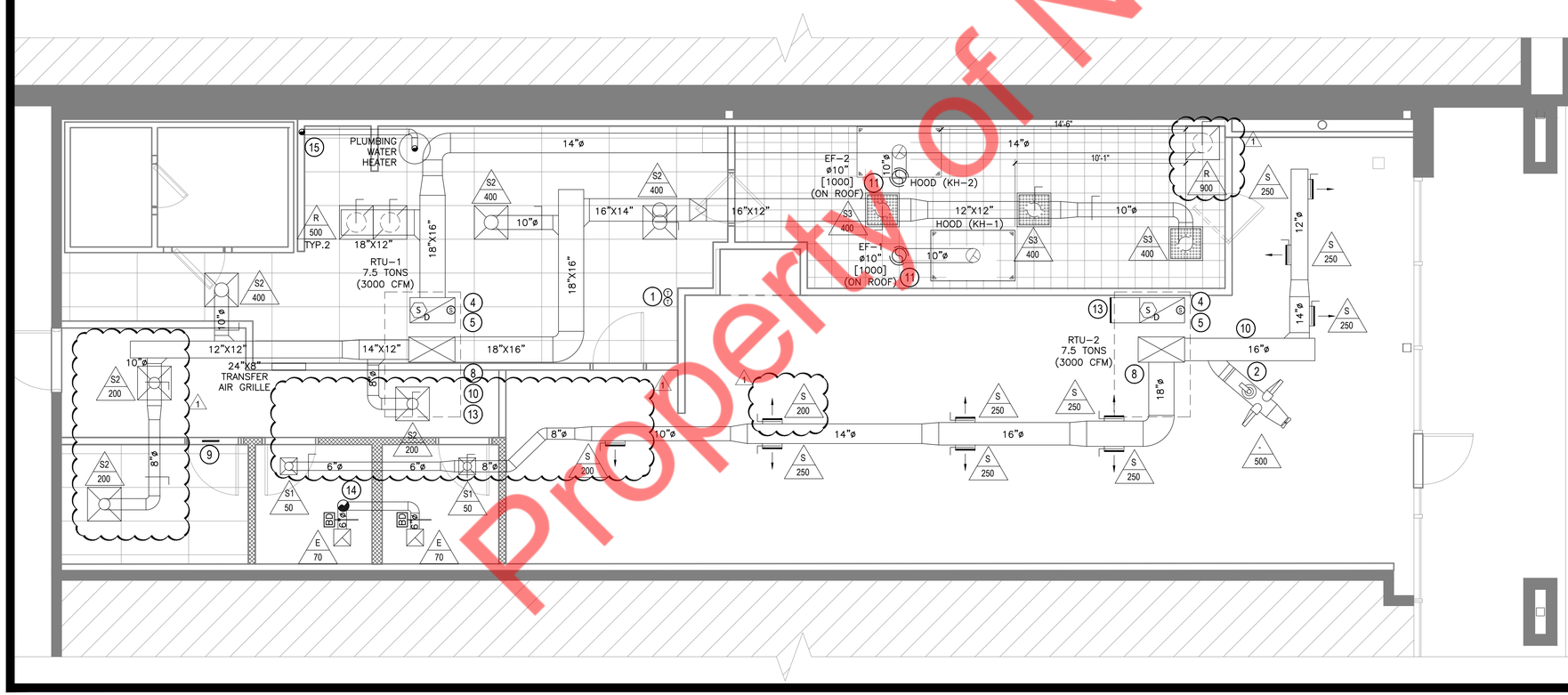
ISSUE DATE

ISSUE	DATE
HEALTH COMMENT	2025-10-27

SHEET TITLE
MECHANICAL LEGEND & NOTES
SHEET NUMBER
M1.0

Property of NY Engineers





KEYNOTES

1. THERMOSTAT INSTALL THERMOSTAT AND AVERAGING REMOTE SENSORS AS SHOWN. COORDINATE EXACT LOCATION WITH OWNER REP. MOUNT T-STATS AS INDICATED ON DWGS. MOUNT SENSORS AT 60" A.F.F. U.N.O. IN LOCKABLE ENCLOSURE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR BACKBOX. CONTRACTOR TO VERIFY COMPATIBILITY AND WIRE T-STATS AND SENSORS TO HVAC UNITS.
2. SEE SUBMARINE DETAIL DRAWING 10/M4.0. SEE ARCHITECTURAL DRAWINGS FOR SUBMARINE HANGING INSTRUCTIONS. 24 HOURS PRIOR TO INSTALLATION CONTRACTOR SHALL CONTACT OWNERS PROJECT MANAGER FOR EXACT INSTALLATION ANGLES.
3. PROVIDE MANUAL VOLUME DAMPER TO AIR DEVICE.
4. PROVIDE SMOKE DETECTOR IN MAIN SUPPLY AND/OR RETURN DUCT OF EACH RTU WHICH WILL DE-ENERGIZE THE UNIT UPON SMOKE DETECTION. INTERLOCK WITH FIRE ALARM SYSTEM IF APPLICABLE. VERIFY ALL REQUIREMENTS WITH LOCAL CODES & LANDLORD.
5. RTU-1 & RTU-2, 2 ROOFTOP UNITS FURNISHED & INSTALLED BY THE TENANT. CONTRACTOR RESPONSIBLE FOR COORDINATION BETWEEN TENANT AND ROOFING CONTRACTOR. BALANCE SUPPLY, RETURN AND OUTDOOR AIR FLOWS PER SCHEDULE ON SHEET M3.0. PROVIDE WITH 3 SETS OF FILTERS FOR EACH UNIT - ONE SET FOR USE DURING CONSTRUCTION, ONE SET INSTALLED AT COMPLETION OF CONSTRUCTION AND ONE SPARE SET FOR TENANT.
6. EF-1, EF-2 EXHAUST FANS & KITCHEN EXHAUST HOODS FURNISHED BY PSW & INSTALLED BY CONTRACTOR. CONTRACTOR TO MAKE ALL CONNECTIONS BETWEEN HOODS AND EXHAUST FAN. CONTRACTOR RESPONSIBLE FOR COORDINATION BETWEEN LANDLORD AND ROOFING CONTRACTOR.
7. CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FROM UNIT AS SHOWN. MINIMUM DRAIN SIZE TO BE 1" OR AS SPECIFIED. CONDENSATE DRAIN TO BE TRAPPED WITH A MINIMUM 5" TRAP DEPTH. DRAINS SHALL BE EXTENDED AT A SLOPE OF 1" PER 40'. ROUTE PRIMARY RTU DRAINS TO FLOOR SINK WITH 2" AIR GAP AS SHOWN. INTERIOR PIPING SHALL BE COPPER WITH WROUGHT FITTINGS AND INSULATED WITH 1" FIBERGLASS INSULATION WITH ASJ.
8. SUPPLY DUCT CONNECTIONS TO RTUS SHALL BE MADE FULL SIZE OF EQUIPMENT OPENING WITH FLEXIBLE DUCT CONNECTIONS AT UNIT AND THEN TRANSITION TO THE SIZES SHOWN.
9. PROVIDE 12"X6" DOOR GRILLE FOR TRANSFER AIR.
10. INSTALL TOP OF DUCTWORK TIGHT TO BOTTOM OF STRUCTURE.
11. 10" DIA. EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FANS EF-1, EF-2 .
12. 10" DIA. EXHAUST DUCT UP FROM EXHAUST HOOD.
13. FULL SIZE RETURN AIR DUCT WITH W.M.S.
14. 8" DIA. EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH RAIN CAP.
15. 3" DIA. COMBUSTION AIR INTAKE DUCT UP THROUGH THE ROOF AND TERMINATE WITH ROOF CAP PER THE MANUFACTURER'S RECOMMENDATION. EXTEND 3" DIA. FLUE UP FROM TANKLESS WATER AND ROUTE AS HIGH AS POSSIBLE AS SHOWN THEN UP THROUGH THE ROOF AND TERMINATE WITH RAIN CAP PER THE MANUFACTURER'S RECOMMENDATION.
16. PROVIDE ROOF MOUNTED EXHAUST FANS AND ROOF CURB. MAINTAIN A MINIMUM 10'-0" FROM ALL OUTSIDE AIR INTAKES AND TERMINATE MINIMUM 40" ABOVE ROOF.

GENERAL NOTES

A. CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.

B. NEW DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFEST AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.

C. COORDINATE LOCATIONS AND SIZES OF INTAKE & EXHAUST OPENINGS WITH OWNER AND RESPECTIVE ENGINEER.

D. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING ETC.

E. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

F. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.

G. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.

H. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.

I. ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.

J. MOUNT DUCTWORK AS HIGH AS POSSIBLE.

K. TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C AND OWNER.

L. NEW DUCTWORK IN CONCEALED AREAS MAY BE RECTANGULAR WITH EQUIVALENT CROSS SECTIONAL FLOW AREA.

M. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FIRE RATINGS OF THE WALLS.

N. ARCHITECTURAL LAYOUT AND DIMENSIONS FOR EQUIPMENT TO TAKE PRECEDENCE OVER MEP.

O. LIMIT FLEXIBLE DUCT LENGTH TO 5 LINEAR FEET. MAKE SURE DUCT IS FULLY STRETCHED OUT WITH NO KINKS & SHARP BENDS.

P. PROVIDE CORD OPERATED DAMPER IN INACCESSIBLE CEILING.

Q. PROVIDE INTERNAL INSULATION FOR ALL EXPOSED DUCTWORK AND EXTERNAL FOR ALL DUCTWORK IN CONCEALED AREAS.

R. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN DUCTS.

S. PROVIDE MINIMUM R-6 INSULATION (EXTERNAL FOR CONCEALED DUCTS) FOR SUPPLY & RETURN AIR DUCTS. PROVIDE ACOUSTIC INSULATION ON MAIN SUPPLY AND RETURN DUCTS UP TO 10 FT. FROM HVAC UNIT.

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-27

SHEET TITLE
MECHANICAL PLANS

SHEET NUMBER
M2.0

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ROOFTOP UNIT SCHEDULE

TAG	MANUF / MODEL	CFM	O.A. CFM	E.S.P.	VOLTS/ PHASE	FAN HP	MCA/MOCP	EER/SEER	HEATING		COOLING							WEIGHT	REMARKS
									INPUT MBH	OUTPUT MBH	NOM. TONS	TOTAL MBH	SENS. MBH	ENT. D.B.	ENT. W.B.	TOT MBH	SENS MBH		
RTU-1	TRANE YSK090A4	3000	1100	1.0"	460 / 3	3.0	22 / 25	11 / -	150	121	7.5	93.61	72.99	80°F	67°F	93.61	72.99	1250	1, 2, 3, 4, 5
RTU-2	TRANE YSK090A4	3000	1100	1.0"	460 / 3	3.0	22 / 25	11 / -	150	121	7.5	93.61	72.99	80°F	67°F	93.61	72.99	1250	1, 2, 3, 4, 5

NOTES:
1. ROOFTOP UNITS PROVIDED AND INSTALLED BY TENANT.
2. INSTALL DUCT SMOKE DETECTORS, FIELD INSTALLED AS SHOWN ON PLANS. RTU SHALL SHUT DOWN AND SIGNAL FIRE ALARM SYSTEM (IF APPLICABLE) WHEN ACTIVATED.
3. PROVIDE EACH UNIT WITH FACTORY FABRICATED ROOF CURB TO MATCH ROOF SLOPE.
4. PROVIDE EACH UNIT WITH FULL ECONOMIZER CYCLE DAMPERS AND CONTROLS.
5. PROVIDE EACH UNIT WITH EXPANDED METAL HAIL GUARDS.
6. PROVIDE HOT GAS REHEAT COIL WITH HUMIDITY SENSOR.

EXHAUST HOOD SCHEDULE

TAG	MANUF / MODEL	HOOD SIZE	EXHAUST PLENUM				HOOD WEIGHT	FAN SERVING HOOD	HOOD CONSTRUCTION	REMARKS
			TOTAL EXH. CFM	RISER(S)						
				DIA	CFM	S.P.				
KH-1	GREASEMASTER 3624 VGS	5'-0" L X 3'-0"	1000	10"	1000	0.201	190 LBS	EF-1	430 SS WHERE EXPOSED	1
KH-2	GREASEMASTER 3624 VGS	5'-0" L X 3'-0"	1000	10"	1000	0.201	190 LBS	EF-2	430 SS WHERE EXPOSED	1

NOTES:
1. EXHAUST FANS & KITCHEN HOODS PROVIDED BY PSW VENDOR AND INSTALLED BY CONTRACTOR.

AIR DEVICE SCHEDULE

MARK	QTY	RECT. NECK SIZE	ROUND NECK SIZE	FACE SIZE	THROW PATTERN	MOUNTING	MANUFACTURER/MODEL	NOTES
S	-	-	-	12X6"		DUCT	TITUS S300FL	
S1	-	-	6"DIA	12X12"'	4-WAY	LAY-IN	TITUS TMS-AA	INSULATED DIFFUSER BLANKET
S2	-	-	SEE PLAN	24X24"	4-WAY	LAY-IN	TITUS TMS-AA	INSULATED DIFFUSER BLANKET
S3	-	-	SEE PLAN	24X24"	4-WAY	LAY-IN	TITUS PAS	INSULATED DIFFUSER BLANKET
R	-	-	SEE PLAN	24X24"	4-WAY	LAY-IN	TITUS 50F	
E	-	-	SEE PLAN	12X12"'	EXHAUST	LAY-IN	TITUS 50F	

GENERAL NOTES:

A.	DEVICES SHALL BE WHITE FROM THE MANUFACTURER. PRIMED AND PAINTED TO MATCH CEILING OR WALL.
B.	DEVICES SHALL BE SILVER MILL FINISH FROM THE MANUFACTURER WHEN IN METAL PANEL CEILING SYSTEM.
C.	ALL DEVICES SHALL BE 4-WAY UNLESS SHOWN OTHERWISE
D.	CONTRACTOR IS RESPONSIBLE FOR VERIFING QUANTITIES AS SHOWN ON PLANS.

NOTES:
1. PROVIDE WITH DAMPER (AG-35)

FAN SCHEDULE

MARK	CFM	S.P.	VOLTS/PHASE	FAN HP	AREA SERVED	MANUFACTURER/MODEL	WEIGHT	NOTES
EF-1,EF-2	1000	.5"	115 / 1	1/2	KH-1 & KH-2	GREASEMASTER GMDU50H	100 LBS	UL 762 FAN MOTOR COVER, DS, SPRING ISOLATORS, BDD, BS
EF-3	140	.375"	120 / 1	1/8	TOILET ROOMS & UTILITY CLOSET	GREASEMASTER GMDU10H	75 LBS	BDD

NOTES:

BDD = BACKDRAFT DAMPER	DS = NON-FUSED SERVICE DISCONNECT
BS = BIRDSCREEN	EC = EPOXY COATING
DDP = DOWN DISCHARGE PLENUM	FILT = PERMANENT FILT.
DIT = DUCT INLET TRANSITION	GB = GREASEBOX
MEP= MASTER ELECTRIC PANEL	SI = SIDE INLET
RC = ROOF CURM	SIT = SIDE INLET TRANSITION
SCR = SPEED CONTROL	WD = WEATHER HOOD
SD = SIDE DISCHARGE	PE = PREMIUM EFFICIENCY MOTOR

AIR BALANCE SCHEDULE

TAG	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE	PERCENT OUTSIDE AIR
RTU-1	1100	1900	3000	0	+1100	36.6%
RTU-2	1100	1900	3000	0	+1100	36.6%
EF-1	0	0	0	1,000	-1,000	---
EF-2	0	0	0	1,000	-1,000	---
EF-3	0	0	0	140	-140	---
TOTAL:					+60	

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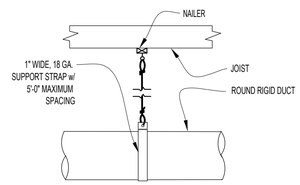
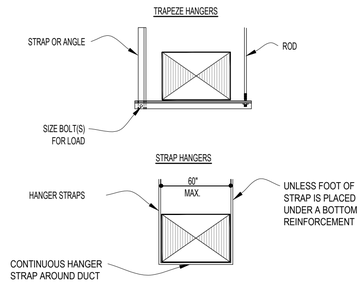


(EXPOSED DUCTWORK ONLY, USE RECTANGULAR DUCT IF ABOVE CEILING)

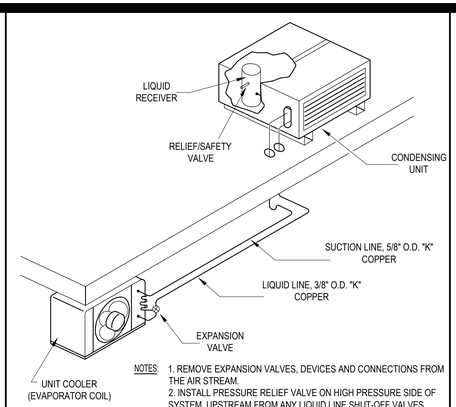
1 ROUND DUCT SUPPORT DETAIL

Scale: N.T.S.



4 DUCT SUPPORT DETAIL

Scale: N.T.S.

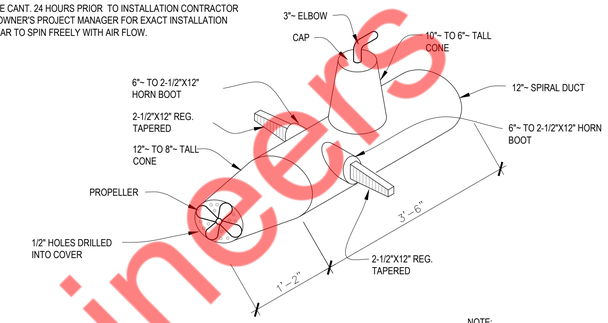


NOTES:
1. REMOVE EXPANSION VALVES, DEVICES AND CONNECTIONS FROM THE AIR STREAM.
2. INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM FROM ANY LIQUID LINE SHUT-OFF VALVES.
3. REFRIGERATION PIPING TO BE TYPE 'K' COPPER.
4. ALL REFRIGERATION PIPING JOINTS TO BE BRAZED.
5. VERIFY REFRIGERANT LINE SIZE PER MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
6. GC TO PROVIDE ANY NECESSARY CONDUIT & PENETRATIONS.

7 WALK-IN COOLER PIPING DIAGRAM

Scale: N.T.S.

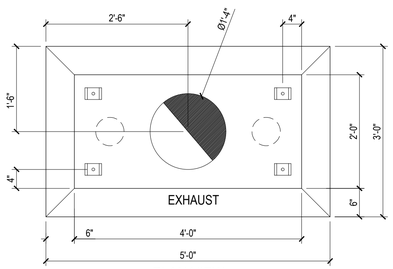
NOTE:
DIVE TO 20 DEGREE CANT. 24 HOURS PRIOR TO INSTALLATION CONTRACTOR SHALL CONTACT OWNER'S PROJECT MANAGER FOR EXACT INSTALLATION ANGLES. PROPELLAR TO SPIN FREELY WITH AIR FLOW.



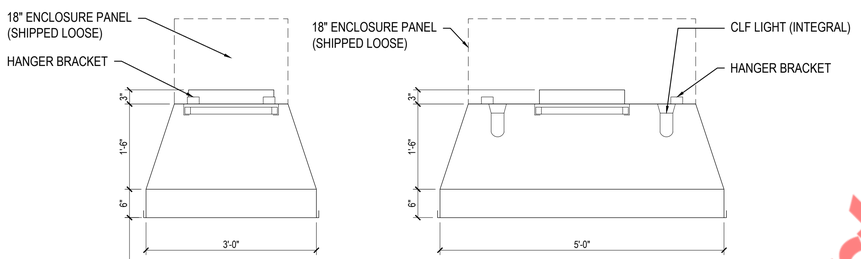
NOTE:
PSW WAREHOUSE TO PROVIDE ALL DUCTWORK FOR SUBMARINE. CONTRACTOR TO ASSEMBLE AND INSTALL.

10 SUBMARINE DETAIL

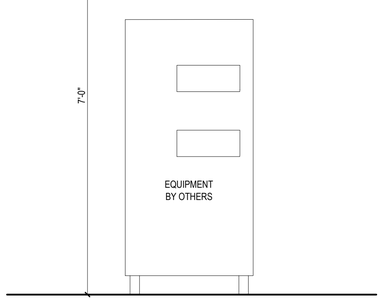
Scale: N.T.S.



PLAN VIEW



FRONT VIEW



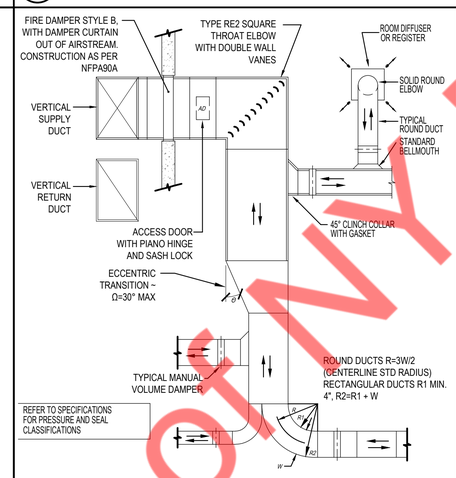
SIDE VIEW

-ONE UNIT REQUIRED PER OVEN LOCATION.
NOTE: HOOD AND EXHAUST FANS BY VENDOR; DUCTS BY G.C.

EXPOSED MATERIAL:
18 GA TYPE 430 S/S, #3 POLISH
LIGHTS:
(2) CFL (INTEGRAL-BULBS SUPPLIED) BY VENDOR
CONTROLS:
FAN SPEED CONTROLLER, ON-OFF LIGHTED LIGHT SWITCH
SWITCHES TO BE LOCATED AT MASTER SWITCH BANK
EXHAUST:
300-1000 CFM

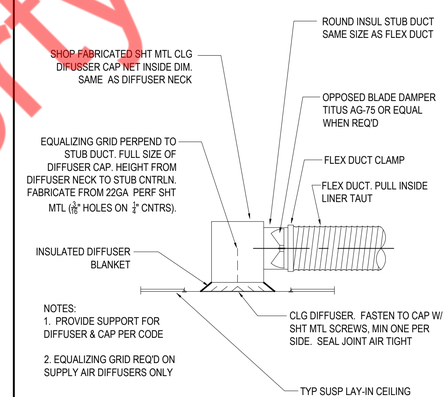
3 TYPE II KITCHEN HOOD

Scale: N.T.S.



8 SUPPLY OR RETURN DUCT

Scale: N.T.S.



NOTES:
1. PROVIDE SUPPORT FOR DIFFUSER & CAP PER CODE

2. EQUALIZING GRID REQ'D ON SUPPLY AIR DIFFUSERS ONLY

9 LAY-IN CLG DIFFUSER

Scale: N.T.S.

11 NOT USED

Scale: N.T.S.

12 NOT USED

Scale: N.T.S.

14 NOT USED

Scale: N.T.S.

15 NOT USED

Scale: N.T.S.

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ELECTRICAL SYMBOLS LEGEND

- J — JUNCTION BOX
- $ — SWITCH
- $3 — THREE WAY SWITCH
- $M — MOTION (OCCUPANCY) SENSOR SWITCH
- S — SWITCHBANK SEE DETAIL ON E7.0
- T — THERMOSTAT
- TS — THERMOSTAT SENSOR
- ELECTRICAL PANEL
- S — WALL MOUNTED SPEAKER
- S — CEILING MOUNTED SPEAKER
- WP — WEATHERPROOF
- GFI — GROUND FAULT INTERRUPTER
- C — SECURITY CAMERA
- TR — TAMPER PROOF
- GFI — GFCI PROTECTED RECEPTACLE
- TEL/DATA RECEPTACLE
- RECEPTACLE; 120V, 1 PHASE DUPLEX, 18" AFF, UON
- SIMPLEX RECEPTACLE: 120V, 1 PHASE, 18" AFF, UON
- QUAD RECEPTACLE: 120V, 1 PHASE, 18" AFF, UON
- WALL MOUNTED SPECIAL PURPOSE RECEPTACLE
- GROUNDING ELECTRODE CONNECTION
- NL — NIGHTLIGHTING 24 HR/DAY
- CEILING MOUNTED RECEPTACLE 120V, 1 PHASE
- F — HORN STROBE
- F — STROBE
- F — PULL STATION
- F — REMOTE TEST STATION
- D — DUCT DETECTOR
- S — SMOKE DETECTOR
- F — SPRINKLER WATERFLOW SWITCH
- T — SPRINKLER TAMPER SWITCH
- FACP — FIRE ALARM CONTROL PANEL

NOTE: THERE MAY BE SYMBOLS IN THE LEGEND THAT MAY NOT BE USED.

SYSTEM NOTES:

1. CONTRACTOR SHALL PROVIDE BACK BOX, CONDUIT, AND CATEGORY 5e CABLE FOR PROJECT. CABLE SHALL BE RUN IN CONDUIT FOR ITS ENTIRE LENGTH BACK TO MANAGER'S DESK.
2. ALL CAT5e CABLE TERMINATIONS TO BE COMPLETED BY ELECTRICAL CONTRACTOR. ALL CABLES TO BE LABELED AT MAMAGER'S DESK AND FACEPLATES.
3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 FEET OF ADDITIONAL CABLE AT EACH END OF LINE. CABLE SHALL BE PULLED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE FREE OF ANY BENDS, CURLS, OR INSULATION DEFECTS.
4. CONTRACTOR SHALL RUN TWO (2) CATEGORY 5e CABLES FROM DEMARC AS DEFINED BY LANDLORD TO MANAGERS DESK.
5. PSW TO ORDER AND COORDINATE INTERNET SERVICE.
6. SEE POS/DATA ONE LINE DIAGRAM SHEET E7.0.
7. SEE LOCATIONS OF POS/DATA ON SHEET E4.0
8. IF NOT PROVIDED BY LL AS PART OF WORKLETTER, GC TO PROVIDE $\frac{1}{2}$" CONDUIT AND PULL STRING FROM DEMARC (LL PHONE ROOM) TO THE PHONE BOARD.

MUSIC SYSTEM NOTES:

1. CONTRACTOR TO PROVIDE EMPTY J-BOX AS INDITATED AT MANAGER'S DESK FOR MUSIC CONTROLS.
2. MUSIC SYSTEM IS PROVIDED AND INSTALLED BY MOOD MEDIA.
   CONTACT: MARY NIRENBERG
   404-395-4031
   mary.nirenberg@moodmedia.com

ELECTRICAL SPECIFICATIONS:

1. CONDUITS INSTALLED OUTDOORS SHALL BE 3/4" MINIMUM RIGID HEAVYWALL. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SUPPORTS FOR ALL CONDUITS. ALL ELBOWS SHALL BE HEAVYWALL STEEL.
2. THE MINIMUM SIZE OF WIRE SHALL BE #12 AWG THHN. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW. ALL HOMERUNS OF 75 FEET AND LONGER SHALL BE SIZED ACCORDINGLY BY THE ELECTRICAL CONTRACTOR FOR VOLTAGE DROP.
3. ALL CONDUITS RUNNING FROM OUTSIDE OF BUILDING INTO BUILDING MUST HAVE APPROVED SEALOFFS.
4. LIGHTING AND RECEPTACLES SHOULD BE INSTALLED AND WIRED PER LOCAL, N.E.C. CODES, AND OSHA REQUIREMENTS. PROVIDE GROUND FAULT INTERRUPTER ON ALL RECEPTACLES AND EQUIPMENT REQUIRED BY CODE. LAMPS, LIGHTING FIXTURE HANGING SUPPORTS, BASES, PADS, RODS, UNISTRUTS, ANGLE CLAMPS AND OTHER ACCESSORIES FOR ALL FIXTURES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, INCLUDING FIXTURES AND EQUIPMENT REQUIRED BY CODE.
5. MC OR AC CABLE SHALL BE ALLOWED IN LENGTHS LONGER THAN 6' TO HOOK UP A FIXTURE OR 12' IN CONCEALED SPACES UNLESS NOT PERMITTED BY CODE (I.E. CHICAGO REQUIRES BY CODE).
6. ALL EMERGENCY SYSTEM WIRING SHALL BE IN SEPARATE CONDUIT FROM COMMON RACEWAYS AFTER ALL SWITCHING.

SECURITY SYSTEM NOTES:

1. CONTRACTOR TO PROVIDE POWER AT TELEPHONE BOARD FOR SECURITY PANEL. CONTRACTOR TO SPECIFICALLY ENFORCE THE PROPER PLACEMENT OF THE SECURITY EQUIPMENT ON THE TELEPHONE BOARD.
2. CONTRACTOR TO PROVIDE CONDUIT AND PULL STRING FOR CAMERA(S) AS REQUIRED.
3. ALL SECURITY EQUIPMENT PROVIDED AND INSTALLED BY OTHERS.

MECHANICAL NOTES:

1. CONTRACTOR TO PROVIDE BACK BOXES AS REQUIRED FOR SENSORS AND THERMOSTATS, CONDUIT TO ACCESSIBLE CEILING, AND PULLSTRING. WIRING AND CONNECTION BY MECHANICAL CONTRACTOR.

WALK-IN COOLER/FREEZER NOTES:

1. ELECTRICAL CONTRACTOR SHALL CONNECT DRAIN LINE HEATER IN THE FREEZER COMPARTMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FOR THE REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS INDICATED IN THE WIRING DIAGRAM.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE COLOR CODED WIRING FROM TIME CLOCK AT THE REFRIGERATION PACKAGE TO THE EVAPORATOR COIL IN THE FIXTURE FOR PROPER DEFROST.
4. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND NATIONAL AND LOCAL CODES.

CONSTRUCTION AND BIDDING NOTES:

1. ELECTRICAL CODE EDITION: PER CURRENT LOCAL CODE.
2. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE AND PARALLEL TO BUILDING WALLS AND STRUCTURE. SUPPORT ALL CONDUIT PER REQUIREMENTS OF LATEST EDITIONS OF APPLICABLE CODES.
3. ALL CONDUIT ROUTING SHOWN ON THE PLANS ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR IS TO DETERMINE THE BEST ROUTING IN THE FIELD.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL SAFETY DISCONNECT SWITCHES, AND FUSES. PROVIDE THREE SPARE FUSES FOR EACH SIZE SPECIFIED.
5. THE PLANS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. THE ELECTRICAL CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS IN THE FILED TO CLEAR OBSTRUCTIONS. E.C. TO MAKE ALL FIELD MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY.
6. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SWD".
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL WILL BE PROVIDED WITH A TYPEWRITTEN CIRCUIT DIRECTORY.
8. ALL PANELS WILL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYED ALIKE.
9. INCOMING SERVICE LOCATION SHALL BE APPROVED BY ARCHITECT BEFORE INSTALLATION.
10. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT MUST BE "UL" LISTED AND LABELED.
11. ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
12. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL ELECTRICAL SYSTEM(S) OUTAGES WITH THE GENERAL CONTRACTOR AND LANDLORD AT LEAST 24 HOURS IN ADVANCE. UNLESS APPROVED OTHERWISE ALL OUTAGES SHALL OCCUR BETWEEN 11:00PM AND 5:00AM.
13. ALL MANUFACTURERS AND THEIR CATALOG NUMBERS THAT ARE LISTED ON THE PLANS AND SCHEDULES ARE INTENDED TO BE "OR APPROVED EQUAL". THE ENGINEER HAS THE FINAL AUTHORITY IN APPROVING SUBSTITUTIONS TO THOSE ITEMS LISTED. SUBSTITUTIONS MUST BE APPROVED IN WRITING.
14. ALL FIXTURES, OUTLETS, SWITCHES, PANELS AND HVAC EQUIPMENT SHALL BE GROUNDED PER NEC.
15. SERVICE EQUIPMENT, RACEWAYS AND ANY CONDUITS SHALL BE GROUNDED AND BONDED PER REQUIREMENTS OF NEC ARTICLE 250 AND APPLICABLE PARTS OF ARTICLE 250.
16. ELECTRICAL CONTRACTOR TO PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF THEIR WORK. ALL FIRE STOPPING AND SMOKE STOPPING AT ALL PENETRATIONS SHALL BE EQUAL IN RATING TO THE CONSTRUCTION BEING PENETRATED. E.C. SHALL RESTORE ALL AREAS DISTURBED BY CUTTING, PATCHING, AND EXCAVATING TO ITS ORIGINAL CONDITION.
17. ALL MATERIALS AND WORKMANSHIP PROVIDED BY THE E.C. SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ALL DEFECTS SHALL BE CORRECTED AT NO COST TO THE OWNER.
18. EMERGENCY, EXIT, NIGHT LIGHT AND SECURITY LIGHTS TO BE ON A DEDICATED CIRCUIT IN SALES AREA SHOWN ON THE PANEL DRAWING.
19. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ADDITIONAL COMPENSATION WILL BE MADE TO HIM DUE TO UNFORESEEN WORK OR THEIR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
20. PROVIDE GROMMETS OR TRIM AT ALL CEILING PENETRATIONS FOR FIXTURES OR SUPPORTS.
21. VERIFY IN FIELD SYSTEM GROUNDING FOR THE TENANT SPACE.
22. IT IS THE INTENT OF THESE DRAWING AND ATTACHED ARCHITECTURAL AND ELECTRICAL SPECIFICATIONS THAT THE ELECTRICAL CONTRACTOR SHALL PROVIDE, DELIVER, AND INSTALL ALL NEW ELECTRICAL SERVICES, EQUIPMENT, LIGHTING FIXTURES, SPECIAL SYSTEMS, CONDUITS, WIRING, MATERIALS, POWER WIRING TO ALL EQUIPMENT SUPPLIED BY OTHERS, TOOLS AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION OF ALL ELECTRICAL SYSTEMS, GUARANTEE AND SERVICE.
23. OSHA RULES, REGULATIONS, AND REQUIREMENTS ARE A PART OF THIS PROJECT. ELECTRICAL CONTRACTOR SHALL FOLLOW THEM ALONG WITH STATE AND LOCAL REQUIREMENTS FOR THE SAFETY OF WORKERS ON THE JOB AND PASSERS-BY.
24. ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES, ACCEPTED BY THE ARCHITECT AND LEFT IN PERFECT OPERATING CONDITION.
25. PROVIDE ALL NECESSARY LIABILITY INSURANCE POLICIES AS REQUIRED BY THE ARCHITECTURAL SPECIFICATIONS. THIS CONTRACTOR SHALL KEEP THE ARCHITECT, ENGINEER, THEIR CONSULTANTS AND THE OWNER OF THE PROJECT HARMLESS FROM ALL CLAIMS, LOSSES, EXPENSES, OF ANY KIND, INCLUDING BUT NOT LIMITED TO ATTORNEY'S EXPENSES AND FEES. WHERE CLAIMS ARE FILED BY THEIR OWN EMPLOYEES OR ANY SUB-SUB-CONTRACTOR HIRED BY THIS CONTRACTOR AND OR THEIR EMPLOYEES. THIS INDEMNITY SHALL ALSO APPLY TO ANY CLAIMS FILED BY OTHERS BECAUSE OF WORK DONE BY THIS CONTRACTOR.
26. THIS ARCHITECT/ENGINEER HAS NO DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION, OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
27. THIS CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL ITEMS SPECIFIED USING CONSTRUCTION METHODS THAT WILL PROTECT PROPERTY AT ALL TIMES AND PREVENT BODILY INJURY AND/OR DEATH. SPECIAL ATTENTION AND PRECAUTION SHALL BE PAID BY THE CONTRACTOR IN SELECTING THE SAFEST METHODS OR MEANS FOR THE INSTALLATION.
28. OMISSIONS FROM THE ARCHITECTS DRAWINGS OF ANY ITEM NECESSARY FOR THE PROPER COMPLETION OR OPERATION OF THE WORK OR AS REQUIRED BY THE CODE SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING THE SAME WITHOUT ANY ADDITIONAL COST TO THE OWNER. WHERE TWO DIFFERENT WIRE OR EQUIPMENT SIZES ARE SPECIFIED ON DRAWING, THE LARGER SIZE SHALL BE USED, EXCEPT FOR OVERCURRENT PROTECTION DEVICES WHICH SHALL MATCH WIRE SIZE AMPERAGE.
29. OBTAIN AND PAY ALL FEES AND PERMITS TO ALL PRIVATE AND PUBLIC AGENCIES HAVING JURISDICTION OVER THE PROJECT, PRIOR TO ORDERING, MANUFACTURING, PURCHASING, OR INSTALLING ANY EQUIPMENT, FIXTURE, OR SYSTEM. CONTACT POWER COMPANY UPON BEING AWARDED THE CONTRACT AND MAKE ALL NECESSARY ARRANGEMENTS FOR POWER.
30. CONSULT AND CHECK AT ALL TIMES THE LATEST ARCHITECTURAL, MECHANICAL, PLUMBING, AND EQUIPMENT DRAWINGS, WHICH ARE A PART OF THIS PROJECT, FOR EXACT LOCATION OF EACH ELECTRICAL CONNECTION. INSTALL AND WIRE ALL EQUIPMENT, SYSTEMS, DEVICES AND FIXTURES AS RECOMMENDED BY EACH MANUFACTURER.
31. ALL EXCAVATING, BACKFILLING, AND RESTORATION OF ALL DISTURBED SURFACES TO THEIR ORIGINAL CONDITION FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
32. SERVICE ENTRANCE EQUIPMENT, PROTECTIVE DEVICES AND ACCESSORIES SHALL HAVE A SHORT CIRCUIT CURRENT RATING GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LINE SIDE OF THE SERVICE ENTRANCE EQUIPMENT. FOR ENERGIZATION OF EACH ELECTRICAL SERVICE, FOLLOW ALL PROCEDURES AS DESCRIBED IN THE LATEST #"PB" PUBLICATION. ENTIRE OPERATION SHALL BE PERFORMED BY QUALIFIED COMMISSIONED PERSONNEL ONLY.
33. ELECTRICAL CONTRACTOR SHALL PROVIDE AN UNDERGROUND EMPTY CONDUIT FROM THE TELEPHONE POLE OR VAULT INTO THE BUILDING AT A DESIGNATED LOCATION. CONDUIT SHALL BE INSTALLED AS REQUIRED BY THE TELEPHONE COMPANY, WITH JUNCTION BOXES AND ACCESS VAULTS, SEE DRAWINGS FOR SIZE.
34. ELECTRICAL CONTRACTOR SHALL PROVIDE ALTERNATE UNIT PRICES, FOR COMPLETE INSTALLATION (FURNISHING, INSTALLING AND WIRING) OF THE FOLLOWING ADDITIONAL DEVICES:
    1. EXIT SIGN
    2. EMERGENCY BATTERY LIGHT
    3. 120V TOGGLE SWITCH
    4. FIRE ALARM AUDIO/VISUAL HORN
    5. FIRE ALARM PULL STATION
    6. JUNCTION BOX WITH 3/4" CONDUIT UP TO CEILING
35. CHECK AND VERIFY ALL VOLTAGES AND SAFETY DEVICES OF ALL EQUIPMENT AND LIGHTING FIXTURES PRIOR TO FINAL INSTALLATION OR WIRING. SWITCHES, STARTERS, PANELS AND OTHER EQUIPMENT SHALL BE INSTALLED TRUE TO PLAN AND LEVEL IN SAME LOCATION AS A GROUP
36. ALL WIRING FOR HIGH AND LOW VOLTAGES SHALL BE INSTALLED IN CONDUIT AS REQUIRED BY ALL CODES FOR ALL SYSTEMS. FOR TEMPERATURE CONTROL CONDUITS SEE THE MECHANICAL DRAWINGS FOR EXACT LOCATION OF EACH THERMOSTAT. PROVIDE 120V POWER FOR TEMPERATURE. CONTROL AND TELEPHONE SYSTEMS.
37. THE CONTRACTOR SHALL OBTAIN A COPY OF THE WORK LETTER FROM THE PSW CONSTRUCTION MANAGER PRIOR TO SUBMISSION OF THE BID. THIS CONTRACTOR SHALL SUBMIT SAID WORK LETTER AS EVIDENCE OF HAVING REVIEWED CONTRACTORS RESPONSIBILITIES WITHIN SCOPE OF WORK. ANY DISCREPANCIES BETWEEN THE WORK LETTER AND THE DESIGN DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE PSW CONSTRUCTION MANAGER, BEFORE BID DUE DATE.
38. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, CONDUIT, AND WIRING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK.
39. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS; USE ACTUAL BUILDING DIMENSIONS.
40. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DE-ENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION. ELECTRICAL DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF AT CONTRACTORS EXPENSE UNLESS OTHERWISE NOTED.

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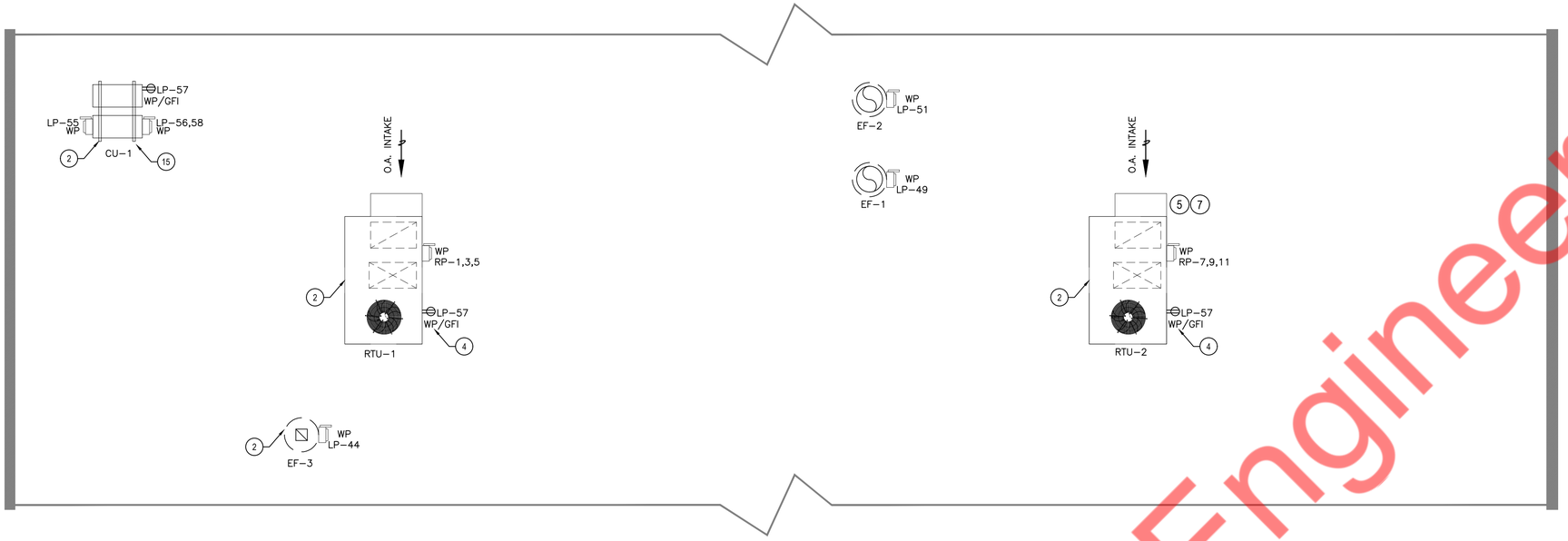
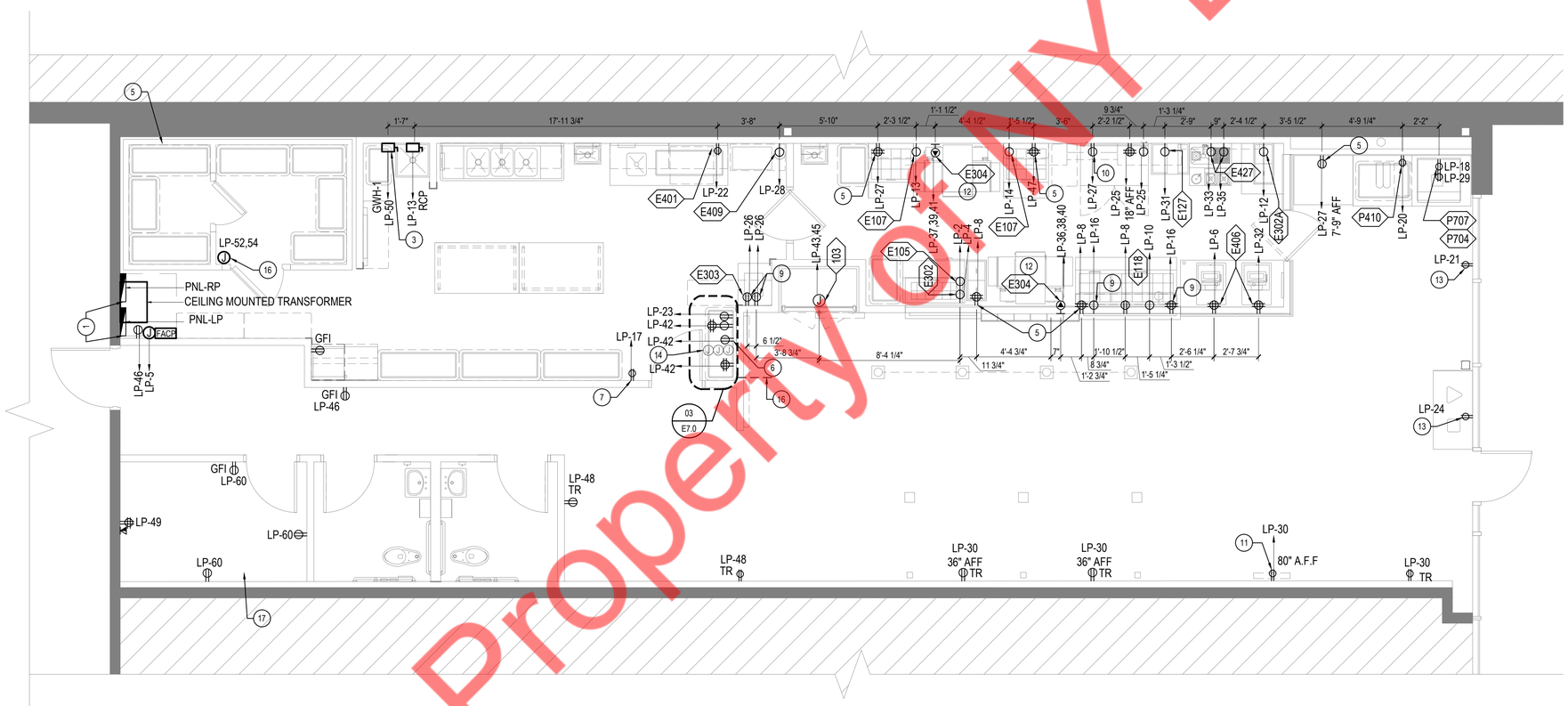
SHEET TITLE
ELECTRICAL LEGENDS AND NOTES
SHEET NUMBER
E1.0



02 PARTIAL ROOF POWER PLAN

SCALE: 1/4"=1'-0"



01 ELECTRICAL POWER PLAN

SCALE: 1/4"=1'-0"

ELECTRICAL SCHEDULE REMARKS:

A. WIRE TO JUNCTION BOX ON EQUIPMENT.

B. WIRE TO EQUIPMENT. PROVIDE DISCONNECT OR CORD AND PLUG AS REQUIRED BY LOCAL CODE.

C. EQUIPMENT NOT SUPPLIED BY K.E.C., VERIFY REQUIREMENTS WITH SUPPLIER.

D. DEDICATED CIRCUIT/ISOLATED GROUND, PROVIDE ELECTRICAL OUTLET. PROVIDE CONDUIT ACCESS FOR COMMUNICATION CABLE,

E. EQUIPMENT SUPPLIED WITH CORD & PLUG.

F. WIRE FROM SWITCH IN WALK-IN PANEL TO LIGHTS IN GLASS DOOR.

G. CONNECTION INSIDE WALK-IN, FROM CEILING.

H. FROM CEILING

I. INSTALL EXTRA LIGHT SHIPPED LOOSE WITH EQUIPMENT. WIRE TO SWITCH ON WALK-IN, RUN CONDUIT ABOVE WALK-IN. CAULK ALL PENETRATIONS AROUND CONDUIT INSIDE AND OUTSIDE OF WALK-IN.

J. E.C. TO USE #8 WIRE AND 50 AMP CIRCUIT BREAKER.

K. SURFACE MOUNT RECEPTACLE IN BOTTOM OF CABINET

L. FOUR WIRE CONNECTION. UNIT PROVIDED WITH CORD AND PLUG, INSTALLED BY E.C.

M. WIRE DEFROST TIMER TO BLOWER COIL. PROVIDED BY K.E.C., INSTALLED BY E.C.

N. ALL OUTLETS/SWITCHES IN THE PREP ROOM, SERVICE LINE AND TOILET ROOMS SHALL BE WHITE WITH WHITE COVER PLATES AND BROWN WITH BROWN COVER PLATES ELSEWHERE. THIS IS TO INCLUDE ALL SOUND SYSTEM AND PHONE/FAX COVERS.

GENERAL NOTES:

A. FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM. ALL ITEMS ARE NOT NECESSARILY SHOWN.

B. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL SCOPE OF WORK.

C. REFER TO DETAIL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES.

D. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL VOLTAGE REQUIREMENTS ON ALL EQUIPMENT.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING AND HVAC CONTRACTORS FOR ANY ADDITIONAL EQUIPMENT NEEDING POWER.

F. ALL FUTURE EQUIPMENT NEEDED HEREIN SHALL BE PROVIDED WITH AN APPROPRIATE RECEPTACLE AND FULLY WIRED. EVEN IF NOT SPECIFICALLY INDICATED. GFCI BREAKERS (NOT RECEPTACLES) SHALL BE UTILIZED FOR ALL

G. 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT AND FLOOR BOXES. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL OF THESE CIRCUITS.

H. ELECTRICAL CONTRACTOR TO VERIFY LOCATIONS OF SODA EQUIPMENT WITH OWNER AND/OR SODA VENDOR. ADJUST ELECTRICAL LOC. AS NECESSARY.

I. ALL OUTLETS TO BE SET FLUSH IN WALLS.

KEYNOTES:

1. ELECTRICAL EQUIPMENT:
SEE RISER DIAGRAM AND SCHEDULES, SHEET E6.0 & E7.0.

2. HVAC EQUIPMENT:
SEE ELECTRICAL CONNECTION SCHEDULE, SHEET E6.0.

3. WATER HEATER:
PROVIDE DISCONNECT SWITCH AND FEEDER ADJACENT TO WATER HEATER. SEE ELECTRICAL CONNECTION SCHEDULE, SHEET E6.0.

4. HVAC RECEPTACLE:
PROVIDE RECEPTACLE MOUNTED ON EQUIPMENT.

5. POTBELLY DIGITAL KITCHEN (PDK) OUTLETS
VERIFY OUTLET HEIGHTS WITH ELEVATIONS.

6. MANAGER'S DESK:
SEE DETAIL 3/E7.0 FOR ALL OUTLET AND CIRCUITING REQUIREMENTS.

7. FLY LIGHT
PROVIDE AND OUTLET AT 9'-0" AFF FOR THE FLY LIGHT.

8. DUCT SMOKE DETECTOR
CONNECT TO CIRCUIT LP-1.

9. FUTURE EQUIPMENT
INSTALL DUPLEX WITH DEDICATED CIRCUIT TO MATCH LOAD OF E107

10. CONVENIENCE OUTLET
INSTALL QUAD OUTLET AT 44" AFF AT PDK TABLE

11. GOTTA GET IT HOT SIGN
INSTALL DUPLEX OUTLET AT 60" AFF FOR INTERIOR SIGNAGE

12. OVEN OUTLET
GC TO PROVIDE LEVITON 8450 RECEPTACLE AT OVEN OUTLET (1 PER OVEN). CORD & PLUG TO BE SUPPLIED BY VENDOR.

13. SHOW WINDOW
INSTALL WINDOW OUTLET AT 18" ABOVE THE TOP. RECEPTACLES ARE TO BE CONTROLLED BY LC.

14. SOUND SYSTEM VOLUME CONTROLS
(3) JUNCTUION BOXES FLUSH FOR VOLUME CONTROLS. PROVIDE STAINLESS STEEL BLANK PLATES FOR UNUSED OPENINGS. REFER TO MANAGER'S DESK - POWER ELEVATION ION SHEET E7.0

15. TELEPHONE/DATA CONDUITS
FIELD VERIFY EXACT LOCATION OF EXISTING 2" TELEPHONE/DATA CONDUITS WITH PULL STRINGS. EXTEND CONDUITS TO TELEPHONE RACK IN COORDINATION WITH ARCHITECTURAL PLANS, OWNER, AND LOW VOLTAGE VENDOR.

16. WALK-IN COOLER AND FREEZER ELECTRICAL LOAD
COORDINATE EXACT ELECTRICAL REQUIREMENT FOR THE WALK-IN COOLER AND WALK-IN FREEZER WITH THE EQUIPMENT VENDOR. PROVIDE POWER PROVISION ACCORDINGLY.

17. OFFICE SPACE
E.C. SHALL COORDINATE WITH THE OWNER OR FRANCHISER FOR THE EXACT LOCATION, MOUNTING AND QUANTITY OF THE OUTLETS. PRIOR TO BID. PROVIDE OUTLETS ACCORDINGLY.

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HEALTH COMMENT	2025-10-27

SHEET TITLE
ELECTRICAL POWER PLAN
SHEET NUMBER
E2.0

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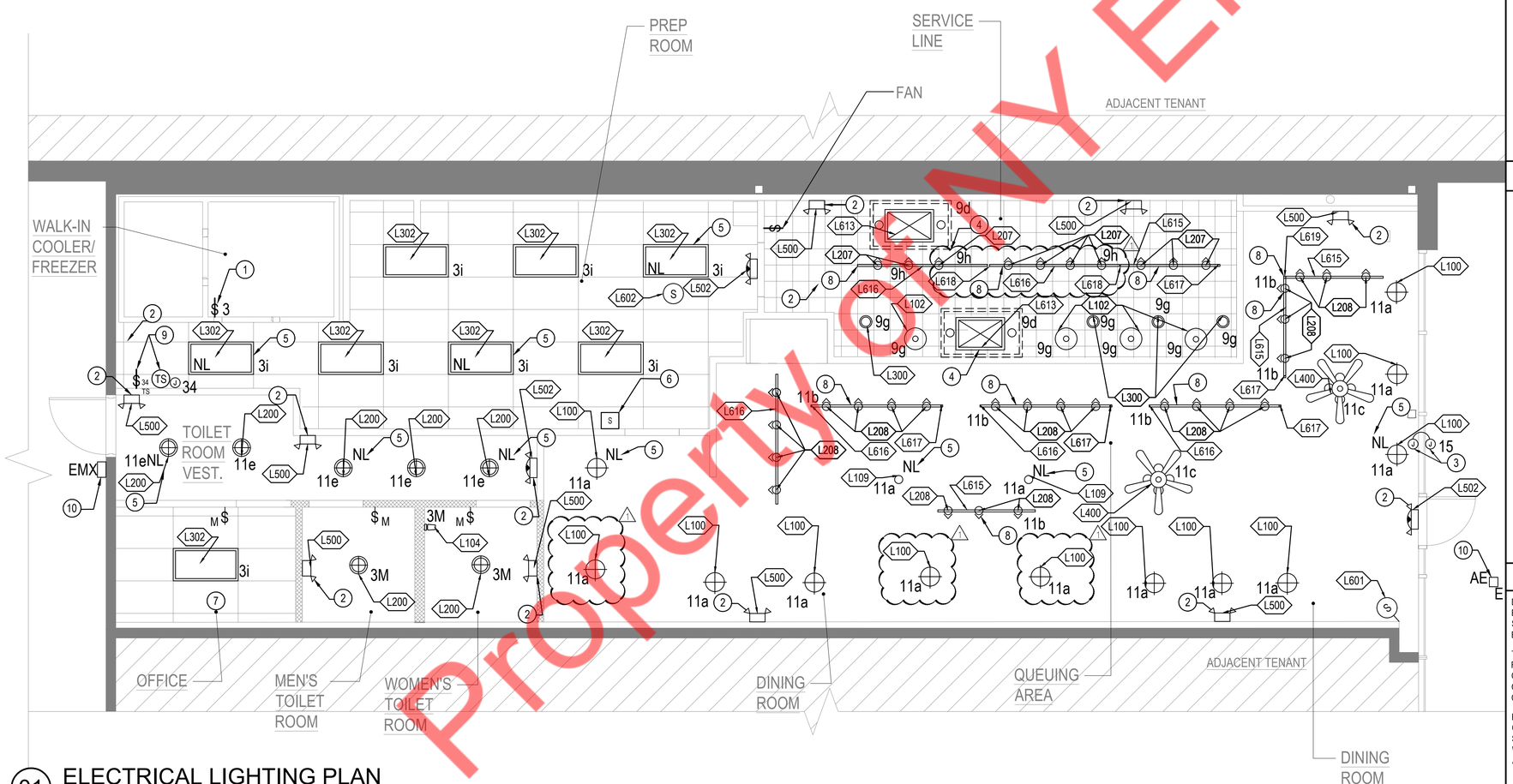
LIGHTING FIXTURE SCHEDULE

ITEM #	TYPE	QTY.	MANUFACTURER	DESCRIPTION	MODEL	LAMP	VOLTS	WATTS
L100	DECORATIVE PENDANT	12	OLDE BRICK LIGHTING	DECORATIVE FIXTURE AT WINDOW/PERIMETER	PC-RYTTENBERG-10 - CLEAR SHADE, MATTE BLACK FINISH, BLACK CLOTH CORD	SATCO S21712 5W A19 LED CLEAR	120v	5
L102	ANTIQUE GLOBE FIXTURE	4	CUSTOM BY PSW	DECORATIVE CHAIN HUNG FIXTURE WITH VINTAGE COLORED TEXTURE GLASS SHADE	CUSTOM	PHILIPS 9.5A19/2200-2700 DIM 120V #455824	120v	10
L104	WALL SCONCE - TOILET ROOM	1	PROGRESS	DECORATIVE WALL SCONCE ABOVE MIRROR	P300395-31M 1-L Bath, CLEAR SHADE, MATTE BLACK FINISH	SATCO S21712 5W A19 LED CLEAR	120v	5
L109	CYLINDER PENDANT	2	QUANTA LIGHTING	PENDANT MOUNTED GENERAL LIGHTING	CI602 - BK - 120V (BLACK)	PHILIPS 567909	120/277	10
L200	CEILING MOUNTED TOILET RM FIXTURE	7	PROGRESS	DECORATIVE CEILING FIXTURE	P350227-31M, CLEAR SHADE, BLACK MATTE FINISH	SATCO S21712 5W A19 LED CLEAR	120v	9
L207	LED TRACK HEAD (MENU)	10	SOLAIS	TRACK HEADS TO FOCUS ON MENUS	LCN-1-NFL-9-30-700-BK-J (BLACK)	PHILIPS 471078 12PAR30S/EXPERTCOLOR	120v	11
L208	LED TRACK HEAD (WALL FLOOD)	25	SOLAIS	TRACK HEADS FOR GENERAL LIGTING	LCN-1-WFL-9-30-700-BK-J (BLACK)	PHI 471086 12PAR30S/EXPERTCOLOR	120v	11
L300	RECESSED DOWNLIGHT	4	ELITE LED LIGHTING	CAN LIGHTING ABOVE SERVICE LINE	REL537 950L DIMTR 120 CCT WWH/ROUGHPLATE	MX96123 // 13P38WD30FL	120v	13
L400	CEILING FAN	2	MINKA AIRE	DINGING ROOM CEILING FAN	MOJO LED 52" CEILING FAN - F522L-CL - COAL	INCLUDED AS PART OF FAN	120v	4
L500	EMERGENCY LIGHT	-	COOPER	EMERGENCY/EXITING LIGHTING	APEL SERIES		120v	-
L502	EMERGENCY EXIT SIGN W/ LIGHTS	-	COOPER	EMERGENCY/EXITING LIGHTING	ALLPRO APCH7R COMBO UNIT WHITE		120v	
L613	3' X 5' EXHAUST HOOD	2	GREASEMASTER	EXHAUST HOOD	CONFIRM WITH VENDOR		120v/20A	20
L615	6'-0" BLACK TRACK	4	CONTECH	TRACK FOR TRACK FIXTURES	LT-6-B		120v	-
L616	8'-0" BLACK TRACK	6	CONTECH	TRACK FOR TRACK FIXTURES	LT-8-B		120v/20A	-
L601	WALL MOUNTED SPEAKER	1	MOOD MUSIC	SOUND SYSTEM			120v	-
L602	CEILING MOUNTED SPEAKER	1	MOOD MUSIC	SOUND SYSTEM			120v	-
L302	RECESSED 2 X 4	8	RAB	BOH GRID LIGHTING	EZPAN2X4 50YN/D10 EDGELIT			50
L617	TRACK END FEED (BLACK)	6	CONTECH	END FEED FOR TRACK	LA-10-B		120v/20A	
L618	TRACK CORNER CONNECTOR (BLACK)	2	CONTECH	CONNECTOR FOR TRACK	TBD			



01 ELECTRICAL LIGHTING PLAN

SCALE: 1/4"=1'-0"

KEYNOTES

1. REFRIGERATION EQUIPMENT
CONTRACTOR TO PROVIDE MATERIALS AND FINAL CONNECTION PER MANUFACTURERS SPECIFICATIONS. THE WALK-IN COOLER LIGHT FIXTURE, DISPLAY LIGHTS, DOOR HEATER, PILOT LIGHT SWITCH, AND DISPLAY LIGHT SWITCH IS PROVIDED WITH THE BOX. PROVIDE SEAL-OFFS FOR THE CONDUIT PENETRATIONS AND ALL WIRING AS REQUIRED.

2. EMERGENCY/EXIT LIGHTING
WIRE EMERGENCY/EXIT LIGHTING TO DEDICATED CIRCUIT LP-1.

3. EXTERIOR SIGN POWER
PROVIDE J-BOX, DISCONNECT, AND FINAL CONNECTIONS FOR THE SIGN. THE SIGN IS SUPPLIED BY OTHERS. FIELD VERIFY THE EXACT LOCATION AND REQUIREMENTS. VERIFY LOCATION W/ PSW PRIOR TO INSTALL. SIGNAGE PERMIT BY OTHERS.

4. HOOD LIGHTING
PROVIDE FINAL CONNECTION TO (2) 1-100W INCANDESCENT HOOD LIGHTS. LIGHTS FURNISHED BY HOOD MANUFACTURER. SEE MECH.

5. NIGHT LIGHTING
LIGHTS IDENTIFIED WITH "NL" TO BE ON UNSWITCHED LEG OF CIRCUIT.

6. MASTER LIGHTING SWITCHBANK (ON SHEET E7.0)
PROVIDE SWITCHES AS IDENTIFIED BELOW UNDER SET(S) OF COMMON FACEPLATES.

7. OFFICE LIGHTING.
ELECTRICAL CONTRACTOR TO COORDINATE WITH OWNER/ARCHITECT/FRANCHISEE ON OFFICE LIGHTING AND CEILING LAYOUT PRIOR TO ROUGH IN.

8. PROVIDE CURRENT LIMITING DEVICE
PROVIDE 0.5 AMPS CURRENT LIMITER. COORDINATE WITH LIGHTING VENDOR.

9. TIMED WALL SWITCH AND TIME CLOCK
REFER TO SHEET E7.0 FOR CONNECTION AND OPERATION DETAILS. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.

10. EXISTING EXTERIOR EMERGENCY LIGHT
REFER TO SHELL BUILDING PERMIT FOR EXISTING EMERGENCY LIGHTING, CONTROLLED BY BUILDING SYSTEMS.

SWITCHING REQUIREMENTS

3i — SWITCH LEG (SEE SWITCHBANK E7.0)
CIRCUIT #

3 — CIRCUIT # ONLY (UNSWITCHED LEG OF CIRCUIT)

GENERAL NOTES

A. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHTS FOR ALL THE LIGHT FIXTURES WITH THE REFLECTED CEILING PLAN WITHIN THE ARCHITECTURAL SET

B. LIGHT FIXTURES ARE FURNISHED BY THE OWNER, INSTALLED BY THE GENERAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR, U.N.O. REFER TO LIGHTING SCHEDULE SHEET E5.0.

C. ELECTRICAL CONTRACTOR RESPONSIBLE FOR SITE INVESTIGATION PRIOR TO START OF WORK TO REVEAL FULL SCOPE OF WORK.

D. ALL OUTLETS/SWITCHES IN THE PREP ROOM, SERVICE LINE AND TOILET ROOMS SHALL BE WHITE WITH WHITE COVERPLATES AND BROWN WITH BROWN COVERPLATES ELSEWHERE. THIS IS TO INCLUDE ALL SOUND SYSTEM AND PHONE/ FAX COVERS.

E. ALL LIGHTING FIXTURES ON THIS SHEET SHALL BE CIRCUITED TO PANEL "LP". UNLESS OTHERWISE NOTED.

F. SEE TYPICAL MOUNTING DETAIL. SHEET A5.2

G. GC TO PROVIDE RELAYS AT TRACK LIGHTING TO SWITCH CIRCUITS TOGETHER BY AREA CALLED OUT.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-27

SHEET TITLE
ELECTRICAL LIGHTING PLAN
SHEET NUMBER
E3.0

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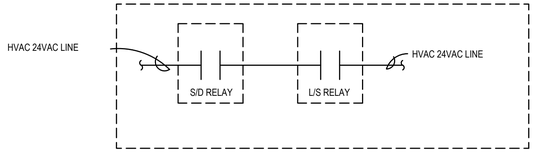


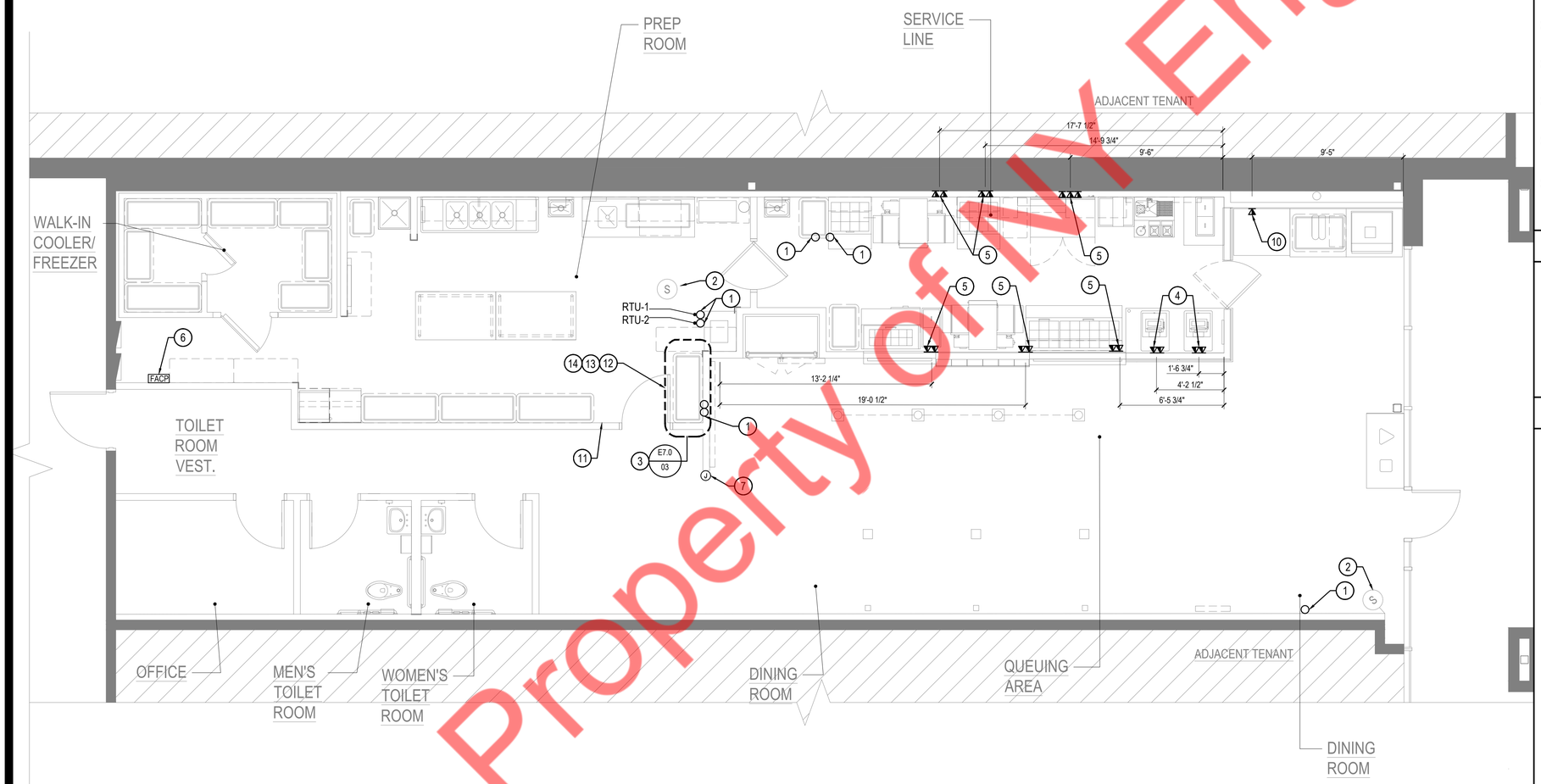
DUCT SMOKE DETECTOR AND LIFE SAFETY RELAY RTU SHUT DOWN CIRCUIT, TYPICAL FOR EACH AHU AND MUA.

SEQUENCE OF OPERATIONS

ACTIVATION OF WATER FLOW SWITCH	ACTIVATION OF TAMPER SWITCH	ACTIVATION OF DUCT SMOKE DETECTOR	ACTIVATION OF AREA SMOKE DETECTOR	ACTIVATION OF MANUAL PULL STATION	TROUBLE CONDITION AT PANEL	
X			X	X		ACTIVATES HORN/STROBES THROUGHOUT FACILITY
		X				ACTIVATES AHU & MUA SHUTDOWN
X			X	X		TRANSMIT ALARM SIGNAL TO CENTRAL STATION
	X	X				TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION
					X	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION

NOTES:

CENTRAL STATION ALARM SERVICE TO RECEIVE SEPARATE & DISTINCT SIGNALS AS FOLLOWS :
A) FIRE ALARM
B) SYSTEM SUPERVISORY SIGNAL
C) SYSTEM TROUBLE SIGNAL



01 ELECTRICAL SYSTEM PLAN

SCALE: 1/4"=1'-0"

KEYNOTES

1. SENSOR/THERMOSTAT
CONTRACTOR TO PROVIDE BACKBOX, CONDUIT (IF REQ'D) AND WIRE TO CEILING AREA TO SUPPORT NEW THERMOSTAT OR AVERAGING REMOTE SENSOR BY MECHANICAL CONTRACTOR. CONFIRM LOCATIONS WITH POTBELLY CONSTRUCTION MANAGER.

2. SPEAKER LOCATION
SPEAKER LOCATIONS SHOWN FOR REFERENCE. SPEAKERS AND INSTALLATION BY MUSIC VENDOR. LOCATE ABOVE WOOD TRIM. SEE NOTES ON SHEET E1.0 FOR SCOPE OF WORK.

3. MANAGER'S DESK
SEE DETAIL 3/E7.0 FOR ALL OUTLET AND CIRCUITING REQUIREMENTS.

4. POS
EXTEND (1) CAT5e CABLE PER POS, PLUS (1) FOR FUTURE TO JBOXES AS PER DETAIL 12/E7.0.

5. PDK EQUIPMENT
EXTEND CAT5e CABLES FROM PDK LOCATION TO MANAGER'S DESK. REFER TO PLAN FOR QUANTITY.

6. FIRE ALARM SYSTEM
SEE NOTES ON SHEET E1.0.

7. WIRELESS ACCESS POINT
EXTEND (2) CAT5e CABLES FROM WIRELESS ACCESS POINT JUNCTION BOX LOCATED AT HEIGHT ABOVE HIGH TRIM IN DINING ROOM TO MANAGER'S DESK. VERIFY EXACT LOCATION WITH POTBELLY REP PRIOR TO INSTALLATION.

8. SMOKE DETECTOR
A SMOKE DETECTOR IS REQUIRED PER NFPA 72 1-5.6 TO PROTECT THE CONTROL UNIT.

9. MOTOR OPERATED DAMPER
24 VOLT, FRACTIONAL H.P. CONNECT LOW VOLTAGE TRANSFORMER TO 120 V. NIGHT LIGHT CIRCUIT. RUN 1/2" EMPTY CONDUIT W/PULL WIRE BETWEEN DAMPER AND UNIT CONTROLS. ELECTRICAL CONTRACTOR TO DEVICES AND ALL ASSOCIATED LOW MAKE 120V. CONNECTION. VOLTAGE WIRE CONNECTIONS ARE BY MECHANICAL CONTRACTOR. FIELD VERIFY EXACT INSTALLATION AND ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR AND TENANT'S CONSTRUCTION MANAGER PRIOR TO ROUGH IN.

10. PDK CUSTOMER DISPLAY MONITOR
EXTEND CAT5e CABLE FROM PDK MONITOR LOCATION IN BULKHEAD TO MANAGER'S DESK. CONFIRM HEIGHT OF J-BOX WITH MONITOR LOCATION.

11. SECURITY ALARM KEYPAD
APPROXIMATE LOCATION OF SECURITY ALARM KEYPAD ABOVE MASTER LIGHT SWITCH BANK.

12. ROUTER ABOVE MANAGER DESK
ROUTER TO BE MOUNTED IN IT CABINET ABOVE MANAGER DESK. SEE DETAIL 03/E7.0.

13. SECURITY ALARM PANEL
SECURITY ALARM PANEL TO BE MOUNTED ABOVE MANAGERS DESK. COORDINATE EXACT LOCATION WITH GC. SEE DETAIL 03/E7.0.

14. PATCH PANEL
EXTEND (1) CAT5e CABLE FROM PHONE JACK AT MANAGERS DESK TO PATCH PANEL IN IT CABINET.

LOW VOLTAGE GENERAL NOTES:

1. ALL LOW VOLTAGE TO BE CAT5E, RAN AND TERMINATED BY GC OR GC'S SUBCONTRACTOR.

2. ALL LOW VOLTAGE MUST BE SINGLE RUN CAT5E CABLES EXTENDED FROM LOCATION INDICATED IN WALL OR CEILING BACK TO THE MANAGER'S DESK.

3. ALL LOW VOLTAGE CABLES TO BE LABELED AT MANAGER'S DESK REFERENING WHERE IT WAS PULLED FROM.

4. PSW CONSTRUCTION MANAGER WILL DISCUSS 'IT READINESS CHECKLIST' NEAR SUBSTANTIAL COMPLETION OF PROJECT. ALL ITEMS ON CHECKLIST MUST BE COMPLETED BEFORE PSW IT CAN BEGIN THEIR INSTALLATION.

FIRE ALARM GENERAL NOTES:

1. ALL FIRE ALARM EQUIPMENT SHALL BE OF AN APPROVED TYPE AND BE USED FOR THE PURPOSE IT WAS INTENDED.

2. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED PER SECTIONS OF THE LOCAL CODE, ADAAG, NEC, AND NFPA 72 WHICH EVER IS APPLICABLE.

3. ALL WIRING AND CABLING SHALL BE APPROVED FOR FIRE ALARM SYSTEM USE AND BE INSTALLED PER NFPA 70 (NEC).

4. WHERE CABLING IS NOT EXPOSED TO THE POSSIBILITY OF MECHANICAL DAMAGE (CEILING HEIGHT, ABOVE BAR JOIST), IT MAY BE RUN EXPOSED AND PROPERLY SECURED TO THE BUILDING STRUCTURE. ALL FIRE WALL PENETRATIONS WILL BE WITH EMT TUBING SLEEVES SEALED ON EACH SIDE OF THE PENETRATION WITH HIGH TEMPERATURE SILICONE FIRE SEAL COMPOUND.

5. WALL MOUNTED VISUAL OR AUDIO/VISUAL DEVICES SHALL BE INSTALLED PER LOCAL CODE, ADAAG, AND NFPA 72. THEY SHALL BE MOUNTED 80 INCHES ABOVE FINISHED FLOOR LEVEL OR 12 INCHES BELOW CEILING HEIGHT, WHICHEVER IS LOWER OR AS ENVIRONMENTAL CONDITIONS REQUIRE.

6. MANUAL FIRE ALARMS SHALL BE INSTALLED PER LOCAL CODE AND NFPA 72. THEY SHALL BE MOUNTED 42 TO 48 INCHES ABOVE FINISHED FLOOR TO THE OPERATING HANDLE AND BE WITHIN 5 FEET OF ALL EXIT DISCHARGE DOORS OR AS ENVIRONMENTAL CONDITIONS REQUIRE.

7. CIRCUITING ON THE FLOOR PLAN IS DIAGRAMMATIC FOR CLARITY. CIRCUITING SHALL BE "THRU WIRING" WHERE AND WHENEVER POSSIBLE. VERIFY EXACT EQUIPMENT LOCATION IN FIELD. COORDINATE WITH ON-SITE PROJECT MANAGER.

ISSUE DATE

ISSUE	DATE
HEALTH COMMENT	2025-10-27

SHEET TITLE
ELECTRICAL SYSTEM PLAN
SHEET NUMBER
E4.0

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LOAD SUMMARY 'RP'			
LOAD DESCRIPTION	DEMAND FACTOR D.F.	VOLT – AMPS CONNECTED	VOLT – AMPS DEMAND
LIGHTING	1.25	3433	4291
RECEPTACLES	N.E.C. 10K+50% REMAINING	9978	9978
MOTORS	N.E.C. 25%	800	1000
KITCHEN EQUIPMENT	N.E.C. 65%	50043	32528
WATER HEATER	1.00	500	500
HVAC EQUIPMENT	*	30200	30200
	TOTAL=	94954	78497

PANELBOARD LOAD = V.A. 78497
FULL LOAD AMPS = A. 218

*– BASE UPON NON–COINCIDENT HEATING LOAD

ELECTRICAL SCHEDULE

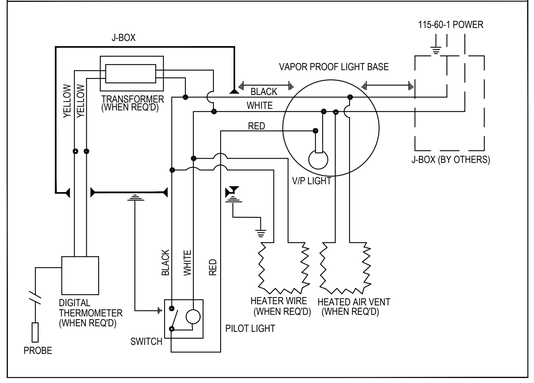
NO.	DESCRIPTION	VAC/PH	LOAD	HAFF	24HR.	REMARKS
FRONT LINE EQUIPMENT						
E105	REFRIGERATED FRONT LOAD STATION (FRONT)	115/60/1	3.9 A	18 in.	X	E
E302	MEATBALL WARMER	120/60/1	13.3 A	18 in.	X	E
E304	CONVEYOR OVEN (FRONT)	208/240/3	37 A	SEE DETAIL 7/E7.0		A,K
E304	CONVEYOR OVEN (FRONT)	208/240/3	37 A	SEE DETAIL 7/E7.0		A,K
E118	REFRIGERATED 72" DRESS STATION (FRONT)	115/60/1	5.1 A	18 in.	X	E
E107	REFRIGERATED SALAD STATION (FRONT/FUTURE)	115/60/1	3.3 A	18 in.	X	E
BACK LINE EQUIPMENT						
E107	REFRIGERATE SALAD STATION (BACK)	115/60/1	3.3 A	18 in.	X	E
E107	REFRIGERATE SALAD STATION (BACK)	115/60/1	3.3 A	18 in.	X	E
E127	ICE CREAM DIPPING CABINET	115/50/1	2.1 A	18 in.	X	E
E302A	SOUP WARMER	120/60/1	13.3 A	18 in.		E
E427	BLENDER	120/60/1	15 A	18 in.		E
E427	BLENDER	120/60/1	15 A	18 in.		E
BACK OF HOUSE EQUIPMENT						
E401	SLICER	120/60/1	2.6 A	45 in.		E
E409	BIB RACK CARBONATOR	115/50/1	6.5 A	91 in.		C,E
E303	FUTURE EQUIPMENT	120/60/1	15 A	45 in.		-
E303	FUTURE EQUIPMENT	120/60/1	15 A	45 in.		-
P715	REMOTE COOLER CONDENSOR			ON ROOF	X	B
P716	REMOTE FREEZER CONDESNOR			ON ROOF	X	B
P800	GAS WATER HEATER			100 in.	X	B,C
FRONT OF HOUSE EQUIPMENT						
P410	TEA BREWER	120/60/1	14.4 A	18 in.		E
P704	SODA/ICE DISPENSERS	115/60/1	9.3 A	18 in.		C,E
P707	ICE MAKER	115/60/1	12 A	24 in.	X	B,C,E
E103	REACH IN BEVERAGE COOLER	240/60/1	12 A	18 in.	X	E

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

COOLER/FREEZER DOOR JAMB WIRE DIAGRAM



PANEL:	RP	(NEW)		-							MOUNTING:	SURFACE
480Y/277	VOLTS	PHASE	3		AIC RATING (in kA)	22KA			DEMAND LOAD	91.30	PANEL LOCATION:	STORAGE/ELECTRICAL
200A	MLO	WIRE	4		NEMA RATING	225			DEMAND CURRENT	109.94	FED FROM:	NEW METER

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	NOTES	PER PHASE (KVA) A	B	C	NOTES	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1			H	5.58		5.58						SPACE		2
3	25/3P	RTU-1	H	5.58	RWC, HACR		5.58					SPACE		4
5			H	5.58				5.58				SPACE		6
7			H	5.58		5.58						SPACE		8
9	25/3P	RTU-2	H	5.58	RWC, HACR		5.58					SPACE		10
11			H	5.58				5.58				SPACE		12
13		SPACE				0.00						SPACE		14
15		SPACE					0.00					SPACE		16
17		SPACE						0.00				SPACE		18
19		SPACE				0.00						SPACE		20
21		SPACE					0.00					SPACE		22
23		SPACE						0.00				SPACE		24
25			X	19.28		19.28						SPACE		26
27	125/3P	TRANSFORMER	X	19.28	REFER TO THE RISER DIAGRAM		19.28					SPACE		28
29			X	19.28				19.28				SPACE		30
						30.43	30.43	30.43						

PANEL:	LP	(NEW)		-							MOUNTING:	SURFACE
208Y/120	VOLTS	PHASE	3		AIC RATING (in kA)	10KA			DEMAND LOAD	57.83	PANEL LOCATION:	STORAGE/ELECTRICAL
200A	MCB	WIRE	4		NEMA RATING	225A			DEMAND CURRENT	160.72	FED FROM:	FED FROM RP VIA XMER

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	NOTES	PER PHASE (KVA) A	B	C	NOTES	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20/1P	EMERGENCY LIGHTING	L	0.20	RWC	0.65			GFCI,RWC	0.45	E	E-105 REFRIG. FRONT LOAD STATION	20/1P	2
3	20/1P	PREP ROOM LIGHTING	L	0.365	LO,RWC		1.96		GFCI,RWC	1.60	E	E302 MEATBALL WARMER (FRONT)	20/1P	4
5	20/1P	FA PANEL	O	0.18	LO,RWC			0.90	GFCI,RWC	0.72	O	POS	20/1P	6
7	20/1P	SECURITY SYSTEM	O	0.18	RWC	1.08			GFCI,RWC	0.90	R	DIGITAL PDK OUTLET	20/1P	8
9	20/1P	DINING ROOM/RR/LTG EF-2	L	0.48	LO,RWC		1.09		GFCI,RWC	0.61	E	E-118 DRESS/SALAD COMBO STATION	20/1P	10
11	20/1P	DINING ROOM LTG	L	0.86	LO,RWC			2.46	GFCI,RWC	1.60	E	E-302A FOOD PAN WARMER	20/1P	12
13	20/1P	E-107 REFRIG. SALAD STATION	R	0.40	GFCI,RWC	0.80			GFCI,RWC	0.40	E	E-107 REFRIG. SALAD STATION	20/1P	14
15	20/1P	EXTERIOR SIGNAGE	L	1.20	RWC		2.32		GFCI,RWC	1.12	E	E-107 REFRIG. SALAD STATION (FUTURE)	20/1P	16
17	20/1P	FLY LIGHT/CONV. RECEPTACLE	L	0.36	RWC			1.43	GFCI,RWC	1.07	E	P-704 SODA ICE DISPENSER	20/1P	18
19	20/1P	RESTROOM RECEPTACLES	R	0.36	RWC	2.09			GFCI,RWC	1.73	E	P-410 TEA BREWER	20/1P	20
21	20/1P	SHOW WINDOW RECEPTACLE	L	1.20	RWC		1.51		GFCI,RWC	0.31	E	E401 MEAT SLICER	20/1P	22
23	20/1P	SOUND SYSTEM	O	0.80	RWC			2.00	RWC	1.20	L	SHOW WINDOW RECEPTACLE	20/1P	24
25	20/1P	EQUIPMENT RECEPTACLE	E	0.74	GFCI,RWC	1.50			GFCI,RWC	0.76	E	E303-FUTURE EQUIPMENT	20/1P	26
27	20/1P	DIGITAL PDK OUTLET	R	0.54	GFCI,RWC		1.32		GFCI,RWC	0.78	E	E-409 SODA RACK & CARBONATOR	20/1P	28
29	20/1P	P-707-ICE MAKER	E	1.38	HACR,RWC			2.10	RWC	0.72	R	DINING ROOM RECEPTACLES	20/1P	30
31	20/1P	E-127 ICE CREAM CAB.	E	0.25	GFCI,RWC	0.97			GFCI,RWC	0.72	O	POS	20/1P	32
33	20/1P	E-427 COUNTER MOUNTED BLENDER	E	1.80	GFCI,RWC		2.00		RWC	0.20	O	TIME SWITCH	20/1P	34
35	20/1P	E-427 COUNTER MOUNTED BLENDER	E	1.80	GFCI,RWC			7.23		5.43	E	E-304 CONVEYER OVEN - HIGH HEAT (20" BELT)	50/3P	36
37	50/3P	E-304 CONVEYER OVEN - HIGH HEAT (20" BELT)	E	5.43	GFCI,RWC	10.87			GFCI,RWC	5.43	E			38
39			E	5.43			10.87			5.43	E			40
41			E	5.43				6.15	RWC	0.72	R	IT CAGE/SOUND SYSTEM RECEPTACLE	20/1P	42
43	20/2P	E103- REACH IN BEVERAGE COOLER	O	1.44	RWC	1.88			RWC	0.44	M	EF-3	20/1P	44
45			O	1.44			1.98		RWC	0.54	R	GENERAL RECEPT.	20/1P	46
47	20/1P	DIGITAL PDK OUTLET	R	0.36	GFCI,RWC			0.72	RWC	0.36	R	GENERAL RECEPT.	20/1P	48
49	15/1P	EF-1	M	0.37	RWC	1.07			RWC	0.70	O	WATER HEATER (GWH-1) & RCP	20/1P	50
51	15/1P	EF-2	M	0.37	RWC		0.96		RWC	0.59	O	FREEZER BLOWER	20/2P	52
53	20/1P	SPARE						0.59		0.59	O			54
55	20/1P	FREEZER COND.	O	1.80	GFCI,RWC	2.63			RWC	0.83	O	COOLER COMPRESSOR	15/2P	56
57	20/1P	SERVICE RECEPTACLE	R	0.36	RWC		1.19			0.83	O			58
59	20/1P	OFFICE DATA RECEPTACLE	R	0.36	RWC			0.90	RWC	0.54	R	OFFICE RECEPTACLE	20/1P	60
						23.53	25.20	24.49						

VOLTAGE DROP CALCULATION									
CALC POINT	SOURCE EQP.	V AT SOURCE	DISTANCE	LOAD EQP.	A AT LOAD	V AT LOAD	V DROP %	MIN. WIRE
VOLTAGE DROP FOR FEEDER								
VDF0	WIRE TROUGH	480						
VDF1	WIRE TROUGH	480	150'	PANEL RP	90.21	475.9	0.90%	4#3/0
VDF2	PANEL RP	475.9	10'	TRANSFORMER	200	475.4	0.50%	3#1
VDF3	TRANSFORMER	475.4	10'	PANEL LP	200	207.7	0.10%	3#3/0
VOLTAGE DROP FOR BRANCH CIRCUIT								
VDB1	PANEL LP	118.8	45'	OUTLET	20	116.4	3%	2#12
VDB2	PANEL LP	118.8	90'	OUTLET	20	116.4	3%	2#10
NOTE :								
1. VERIFY EXACT VOLTAGE LEVEL AT FIRST CALCULATION POINT.								
2. E.C. TO SELECT NEXT WIRE SIZE UP FOR BRANCH CIRCUIT EXCEEDING 45FEET, TO KEEP THE BRANCH CIRCUIT VOLTAGE DROP WITHIN 3%.								

PANEL NOTES:

1. EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC 210.4(B).
2. ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES SHALL BE LEFT IN THE OFF POSITION.

ELECTRICAL CONNECTION SCHEDULE

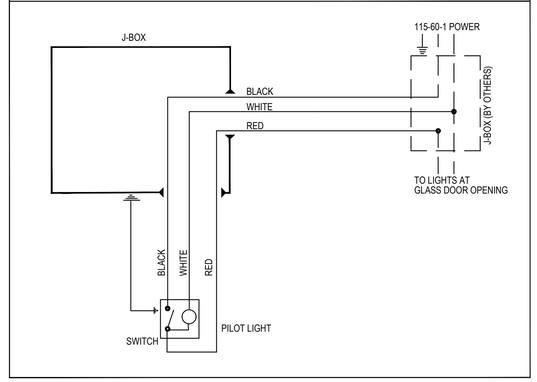
UNIT	VOLTAGE	FLA	MCA	MOCP A/POLE	GROUNDED AND UNGROUNDED CONDUCTORS	CONDUIT	SWITCH DISCONNECT AT UNIT	CIRCUIT	CONNECTION NOTES
RTU -1	208V, 3 PHASE	--	22	25/3	(3) #6 THWN & (1) #10 GND	3/4"	60A, 3-POLE, 208V, NONFUSED NEMA3R	RP-7,9,11	COORDINATE CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
RTU -2	208V, 3 PHASE	--	22	25/3	(3) #6 THWN & (1) #10 GND	3/4"	60A, 3-POLE, 208V, NONFUSED NEMA3R	RP-14,16,18	
		--							
EF -1	120V	--	--	15/1	(2) #12 THWN & (1) #12 GND	3/4"	20A, 1-POLE, NONFUSED	RP-42	
EF -2	120V	--	--	15/1	(2) #12 THWN & (1) #12 GND	3/4"	20A, 1-POLE, NONFUSED	LP-11	CONTROLLED BY OS LIGHT SWITCH
GWH -1	120V	--	--	20/1	(2) #12 THWN & (1) #12 GND	3/4"	20A, 1-POLE, NONFUSED	RP-37	COORDINATE CONNECTION REQUIREMENTS AND DISCONNECT LOCATION WITH PLUMBING CONTRACTOR.

NOTE:

VERIFY EXACT OVER CURRENT PROTECTION/ DISCONNECT REQUIREMENTS (PER NEC ART. 440) WITH EQUIPMENT MANUFACTURER NAMEPLATE DATA UPON RECEIPT AT JOB SITE AND COMPARE WITH ELECTRICAL CONNECTION SCHEDULE. ALL REQUIRED MOTOR STARTERS BY EC. CONTACT ENGINEER WITH ANY DISCREPANCIES. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL ELECTRICAL CONNECTIONS. EC TO PROVIDE DISCONNECT, UNO.

FAULT CURRENT CALCULATION (FCC)						
CALC POINT	SOURCE EQP.	FC AT SOURCE	RUN	WIRE	MATERIAL	FC AT LOAD
X0	METER	16,960	5'	4#3/0	COPPER	16,841
X1	DISCONNECT	16,841	140'	4#3/0	COPPER	14072
X2	PANEL RP	14072	5'	4#3/0	COPPER	13985
X3	TRANSFORMER	13985	10'	3#1	COPPER	3785
NOTE : VERIFY EXACT FACULT CURRENT AT FIRST POINT OF CALCULATION						

BUCK OPENING SWITCH/LIGHTS WIRE DIAGRAM



PANEL SCHEDULE ABBREVIATIONS AND NOTES

L	LIGHTING
R	RECEPTACLE
H	HVAC
E	KITCHEN EQUIPMENT
M	LARGEST MOTOR
O	OTHER
N	NON COINCIDENT
X	LINKED CELL
*	SPLIT BREAKER
RWC	REFER TO THE WIRING CHART FOR WIRE SIZE
GFI	GROUND FAULT CIRCUIT INTERRUPTER
AFI	ARC FAULT CIRCUIT INTERRUPTER
NBEP	NEW BREAKER IN THE EXISTING PANEL
HACR	HEAT AIR CONDITIONING AND REFRIGERATION
PAN	PROVIDE ADDITIONAL WIRE FOR NEUTRAL
LO	LOCKOUT BREAKER
STB	SHUNT TRIP BREAKER
ETR	EXISTING TO REMAIN
SAE	SAME AS EXISTING
LC	WIRE THROUGH LIGHTING CONTACTOR
VIF	VERIFY IN FIELD

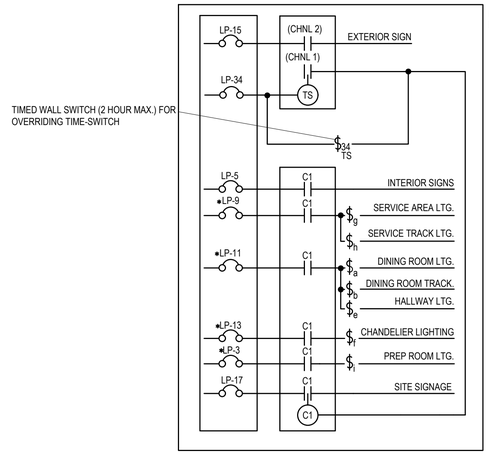
BRANCH CIRCUIT WIRING CHART

15/1P	2#12 + 1#12G, 3/4"C
20/1P	2#12 + 1#12G, 3/4"C
20/2P	2#12 + 1#12G, 3/4"C
25/2P	2#10 + 1#10G, 3/4"C
30/2P	2#10 + 1#10G, 3/4"C
35/2P	2#8 + 1#10G, 3/4"C
40/2P	2#8 + 1#10G, 3/4"C
20/3P	3#12 + 1#12G, 3/4"C
25/3P	3#10 + 1#10G, 3/4"C
30/3P	3#10 + 1#10G, 3/4"C
35/3P	3#8 + 1#10G, 3/4"C
40/3P	3#8 + 1#10G, 3/4"C
45/3P	3#8 + 1#10G, 3/4"C
50/3P	3#8 + 1#10G, 3/4"C
125/3P	3#1 + 1#6G, 1 1/4"C

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-27

SHEET TITLE
ELECTRICAL PANEL SCHEDULE
SHEET NUMBER
E6.0

Property of NY Engineers



*=ALL EMERGENCY/EXIT/NIGHT LIGHTING SHALL BE CIRCUITED AHEAD OF ALL LIGHTING CONTROLS.

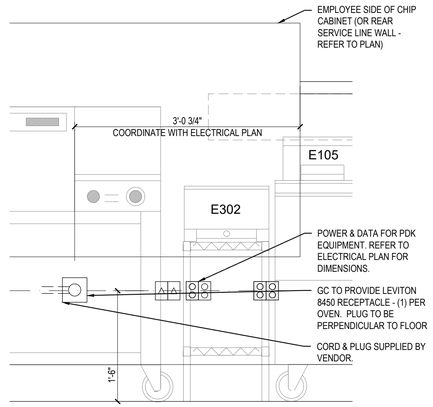
NOTE:EC SHALL USE THIS TIME SWITCH OR APPROVED EQUIVALENT TO COMPLY WITH 2012 IECC.

LIGHTING/SIGNAGE CONTROLLER: TORK MODEL #DZS200BP 120V, 2 CHANNEL ELECTRONIC TIMECLOCK WITH MANUAL OVERRIDE. INCLUDE ALL CONTROL WIRING AS REQ'D PER MANUFACTURER. PROVIDE CONTACTORS AS REQ'D TO PROVIDE SUFFICIENT POLES FOR ALL LIGHTING AND SIGNAGE. TIMECLOCK AND CONTACTORS TO BE PROVIDED WTIH NEMA-1 ENCLOSURES.

SET TO TURN ON AND OFF PER PSW DIRECTION ON 24 HRS/DAY LOCK ON CIRCUIT.
CHANNELS 2: TIME ON - 1 HR BEOFRE OPEN
TIME OFF - 1 HR AFTER CLOSE
C1: AS DIRECTED BY STORE MANAGER.

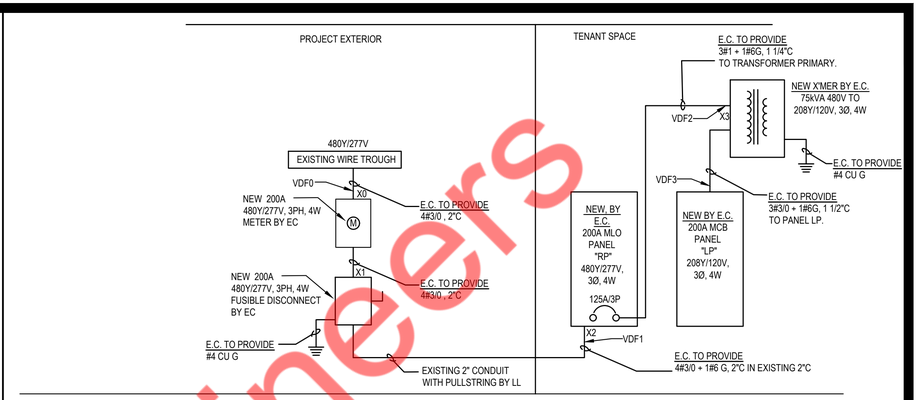
1 TIME CLOCK DETAIL

Scale: N.T.S.



7 SPLIT OVEN OUTLET / BACK BOX DETAIL

Scale: N.T.S.



EC IS RESPONSIBLE FOR FIELD VERIFICATION OF SITE CONDITIONS AND COORDINATING ALL ELECTRICAL SERVICE REQUIREMENTS WITH LOCAL UTILITY. EC SHALL REPORT ANY DIFFERENCES OR DISCREPANCIES TO ENGINEER PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR THE EC'S FAILURE TO VISIT SITE PRIOR TO BIDING.

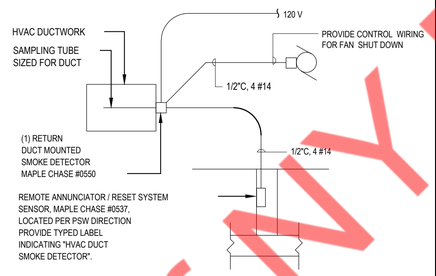
VDF# AND X# REPRESENTS VOLTAGE DROP FOR FEEDER AND FAULT CURRENT AT THE INDICATED POINT. REFER TABLE IN THE SHEET E6.0.

10 RISER DIAGRAM

Scale: N.T.S.

2 NOT USED

Scale: N.T.S.



NOTE: PROVIDE DETECTOR, HOUSING, TYPE, REMOTE STATION, AND ALL ACCESSORIES. DETECTOR SHALL BE INSTALLED UNDER DIVISION 15. CONNECT DETECTOR AS SHOWN.

WHEN PSW SPACE IS MONITORED BY CENTRAL BUILDING FIRE ALARM SYSTEM, GC TO COORDINATE WITH LANDLORD'S ALARM CONTRACTOR TO CONNECT BUILDING ALARM SYSTEM TO DUCT DETECTOR AUXILIARY CONTACTS.

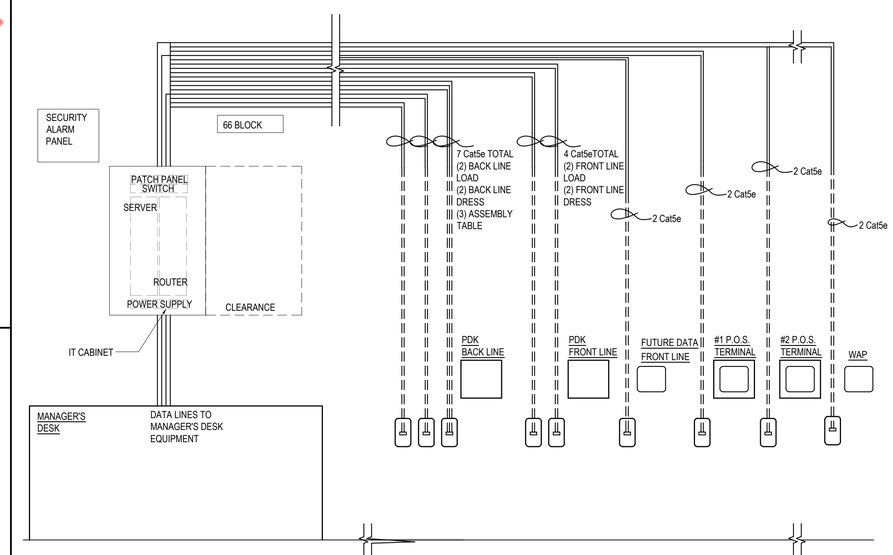
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCT DETECTOR WITH MINIMUM TWO SETS OF AUXILIARY CONTACTS

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONTROL WIRING FROM DUCT DETECTOR TO AC UNIT

8 DUCT SMOKE DETECTOR

Scale: N.T.S.

VDF# AND X# REPRESENTS VOLTAGE DROP FOR FEEDER AND FAULT CURRENT AT THE INDICATED PO
REFER TABLE IN THE SHEET E6.0.

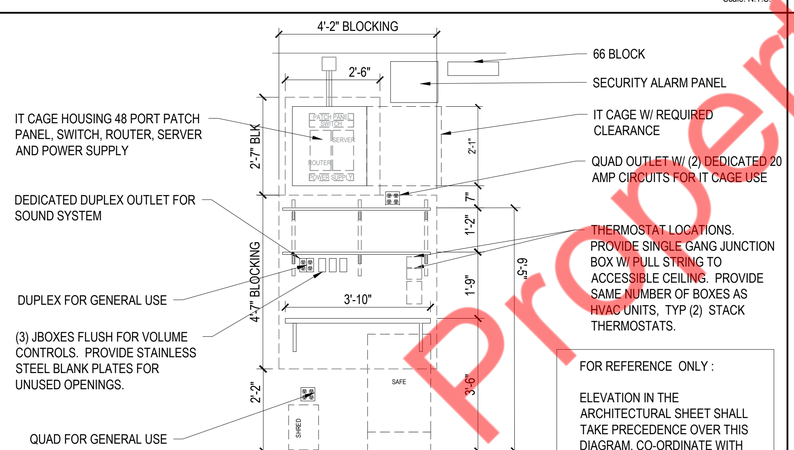


NOTES:

1. ALL WORK AND MATERIALS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
2. PROVIDE PLENUM RATED CABLING FOR ABOVE THE CEILING WHERE "PLENUM RATED AIR SPACE" SYSTEMS ARE REQUIRED.
3. PROVIDE CONDUIT FOR DATA LINES IF REQUIRED BY CODE.
4. DATA TERMINATION BY ELECTRICAL CONTRACTOR.
5. IF NOT PROVIDED BY LL AS PART OF WORKLETTER, GC TO PROVIDE 1/2" CONDUIT AND PULL STRING FROM DEMARC (LL PHONE ROOM) TO 66 BLOCK

12 P.O.S. DATA/PHONE/VIDEO ONE-LINE DIAGRAM

Scale: N.T.S.



FOR REFERENCE ONLY :

ELEVATION IN THE ARCHITECTURAL SHEET SHALL TAKE PRECEDENCE OVER THIS DIAGRAM. CO-ORDINATE WITH THE ARCHITECT FOR ANY DISCREPANCY.

3 MANAGER'S DESK - POWER ELEVATION

Scale: N.T.S.

a	b	c	d	e	f	g	h	i
$	$	$	$	$	$	$	$	$

CONTROL ZONE SCHEDULE

a - DINING AREA PERIMETER LTG
b - DINING ROOM TRACK LTG
c - CEILING FANS MOTORS
d - LIGHTED HOOD AND EXHAUST SWITCH
e - HALLWAY LTG.
f - CHANDELIER LIGHTING
g - SERVICE AREA-PERIMETER CENTER LTG
h - SERVICE AREA-TRACK LTG
i - PREP AREA LTG

$ INDICATES SWITCH

9 MASTER LIGHTING SWITCHBANK

Scale: N.T.S.

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-27

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E7.0

Property of WY Engineers

PLUMBING SYMBOLS LEGEND

W	WATER SERVICE
CW	COLD WATER SUPPLY PIPING
HW	HOT WATER SUPPLY PIPING
TW	TEMPERED WATER SUPPLY PIPING
	SANITARY DRAINAGE & WASTE PIPING/SEWER
	SANITARY VENT PIPING
G	NATURAL GAS PIPING
	LINE SIZE GATE VALVE
	LINE SIZE BALL VALVE (2" & SMALLER)
	LINE SIZE BALANCING VALVE
	LINE SIZE CHECK VALVE
	LINE SIZE UNION
	LINE SIZE GAS COCK VALVE
AFF	ABOVE FINISHED FLOOR
CB	CAST BRASS
CIP	CAST IRON PIPE
CI	CAST IRON
CO	CLEANOUT
CP	CHROME PLATED
ETR	EXISTING TO REMAIN
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GALV	GALVANIZED
NC	NEW CONNECTION
S	SANITARY
V	VENT
VTR	VENT THRU ROOF
W	WASTE
FS.	RECOMMENDED FLOOR SINK LOCATION. VERIFY WITH ARCHITECT.
IND	INDIRECT WASTE DRAIN, HUB DRAIN, FLOOR DRAIN W/ FUNNEL OR SIMILAR. VERIFY WITH ARCHITECT
FD	FLUSH FLOOR DRAIN AND GRATE
###	KITCHEN EQUIPMENT ITEM NUMBER- ADDITIONAL INFORMATIONS

PIPING:

SOIL, WASTE AND VENT PIPING
SOIL, WASTE AND VENT PIPING 10" AND SMALLER SHALL BE SERVICE WEIGHT, HUBLESS, CAST IRON PIPE, PVC AND FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL SHIELD AND CLAMP. PROVIDE HUB & SPIGOT, SERVICE WEIGHT CAST-IRON SOIL PIPE, PVC AND FITTINGS BELOW GRADE WHERE REQUIRED BY LOCAL CODES. SCHEDULE 40 ABS OR PVC PIPE AND FITTINGS WITH SOLVENT WELD MAY BE SUBSTITUTED FOR SOIL, WASTE AND VENT PIPING ABOVE AND BELOW GRADE IF ALLOWED BY LOCAL AUTHORITY. ALL HORIZONTAL RUNS SHALL DRAIN AT A GRADE 1/4" PER FOOT WHERE POSSIBLE BUT IN NO CASE LESS THAN 1/8" PER FOOT. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.

DOMESTIC WATER PIPING
DOMESTIC WATER PIPING 2½" AND SMALLER SHALL BE COPPER TUBE (OR PEX WHERE CODE ALLOWS) WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH NON-LEAD, NON-ANTIMONY SOLDER. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE.

CONDENSATE DRAINAGE PIPING
THE PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FOR AIR HANDLING UNITS AND POTBELLYS EQUIPMENT (REFER TO SCHEDULE). CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH 50/50 SOLDER.

NATURAL GAS PIPING
GAS PIPING SHALL BE SCHEDULE 40, SEAMLESS, BLACK STEEL PIPE. PROVIDE PIPING SUPPORT BLOCKING ON ROOF, COMPATIBLE WITH ROOFING SYSTEM.

HANGERS & SUPPORTS
THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS INSTALLED AS REQUIRED BY LOCAL CODES ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

CONNECTIONS
INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

CLEANOUTS
PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY CODE IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

PIPING (CONTINUED):

INSTALLATION
INSTALL EXPOSED PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, CONCRETE FLOOR AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

TESTING
ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.

PIPING INSULATION:

WATER PIPING
PROVIDE THERMAL INSULATION ON ALL HOT TEMPERED & COLD WATER, AND HORIZONTAL WASTE PIPING IN CEILING SPACES, AND ON ALL COLD WATER PIPING IN CASEWORK AND BAR AREAS. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURE APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED. EVALUATE INSULATION OF WATER LINES, ONLY INSULATE AS REQUIRED BY CODE. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES, THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

PIPE SIZE	INSULATION THICKNESS
LESS THAN OR EQUAL TO 1½"	1"
2" DIA. OR GREATER	1½"
(INSULATION VALUE = k VALUE NOT EXCEEDING ≥ .027 BTU PER INCH/h*ft *f	

SAFETY COVERS
INSTALL SPECIFIED NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AT ALL EXPOSED PIPING.

ICE BIN DRAIN
INSULATE ICE BIN COPPER DRAIN LINES WITH ½" THICK, SELF-SEALING, SECTIONAL, CLOSED CELL FOAM.

HVAC PIPING
INSULATE REFRIGERANT SUCTION PIPING AND COOLING COIL CONDENSATE PIPING ½" THICK, SELF SEALING, CLOSED CELL FOAM. INSULATE HVAC HOT AND WITH CHILLED WATER PIPING SYSTEMS AND LOW PRESSURE STEAM AND CONDENSATE PIPING WITH 1½" THICK, HEAVY DUTY, SELF SEALING, JACKETED FIBERGLASS.

RAIN CONDUCTORS
INSULATE RAIN WATER CONDUCTORS WHICH PASS THROUGH OCCUPIED AREAS WITH ½" THICK FIBERGLASS.

PIPING VALVES:

GENERAL
PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

VALVES
PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:

VALVE TYPE	MANUFACTURER	MODEL NO.
CHECK VALVE (UP TO 2")	NIBCO	#S-22
FULL PORT BALL VALVE (UP TO 3")	NIBCO	#S-FP-600
GATE VALVE (UP TO 3")	NIBCO	#S-113
TEMP. AND PRESSURE RELIEF VALVE	WILKINS	#TP1100A
WATER HAMMER ARRESTOR	WILKINS	#1250
BACKFLOW PREVENTER (WHOLE-HOUSE)	WILKINS	#950XLU
BACKFLOW PREVENTER (SINGLE DEVICE)	WILKINS	#700
VACUUM RELIEF VALVE	WILKINS	#35VCH
PRESSURE REDUCING VALVE	WILKINS	#500YSBR
TRAP SEAL PRIMER	JAY R. SMITH	#2699-1

SUPPLY
IF WATER PRESSURE SUPPLIED TO STORE IS GREATER THAN AND 65 PSI. THEN PROVIDE A PRESSURE REGULATOR TO MAIN SUPPLY TO MAINTAIN WATER PRESSURE. PROVIDE BACKFLOW PREVENTION ON WATER SERVICE IF REQUIRED BY LOCAL CODES.

MISC. PLUMBING FIXTURES:

GREASE TRAP INTERCEPTOR
LL TO PROVIDE HEAVY DUTY NONSKID GASKETED COVER FOR PEDESTRIAN TRAFFIC AND EXTENSIONS AS REQUIRED.

CONSTRUCTION AND BIDDING NOTES:

1. THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT RELATED TO THE INSTALLATION OF THE PLUMBING WORK.
2. THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE FIXTURES, EQUIPMENT, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.
3. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL, NEMA, ANSI, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
4. CODES ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO POTBELLY.
5. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK.
6. THE CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY POTBELLY AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.
7. THIS CONTRACTOR SHALL OBTAIN A COPY OF THE WORK LETTER FROM THE PSW CONSTRUCTION MANAGER PRIOR TO SUBMISSION OF THE BID. THIS CONTRACTOR SHALL SUBMIT SAID WORKLETTER AS EVIDENCE OF HAVING REVIEWED CONTRACTORS RESPONSIBILITIES WITHIN SCOPE OF WORK. ANY DISCREPANCIES BETWEEN THE WORKLETTER AND THE DESIGN DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE PSW CONSTRUCTION MANAGER, BEFORE BID DUE DATE.
8. PROVIDE AND INSTALL ALL "P" TRAPS, MANIFOLDS, DRAIN LINES, SHUT-OFFS, GREASE TRAPS & BACKFLOW PREVENTORS AS REQUIRED BY EQUIPMENT AND/OR LOCAL CODES. ALL KITCHEN, DINING ROOM AND BAR AREA WASTES ARE TO BE OPEN SITE IN FLOOR, UNLESS OTHERWISE SPECIFIED.
9. IF WATER PRESSURE AT EQUIPMENT AREA EXCEEDS 40 P.S.I. FLOW PRESSURE, INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT AND COLD WATER SUPPLY LINES.
10. LOCATE AND FURNISH ALL AREA FLOOR DRAINS UNLESS OTHERWISE SPECIFIED.
11. PROVIDE AND SIZE ANY SOFTENING AND FILTERING EQUIPMENT THAT MAY BE REQUIRED UNLESS OTHERWISE SPECIFIED.
12. DETERMINE SIZE OF GAS SUPPLY LINE REQUIRED FOR ALL GAS EQUIPMENT INCLUDING FOOD SERVICE EQUIPMENT.
13. PLUMBER TO PROVIDE AND INSTALL BACKFLOW PREVENTORS ON ALL EQUIPMENT AS REQUIRED BY LOCAL CODE.
14. SEE EQUIPMENT SCHEDULE FOR LISTING OF ALL EQUIPMENT WITH APPOPRIATE SPECIFICATIONS. SCHEDULE WILL INCLUDE ALL RESPONSIBLITIES FOR PROVIDING AND INSTALLING EQUIPMENT.
15. THESE PLANS ARE FOR INFORMATION ONLY. INFORMATION ON THIS SHEET IS TO BE REVIEWED BY THE OWNER AND INCORPORATED INTO THE BUILDINGS' MECHANICAL PLANS IN ACCORDANCE WITH LOCAL CODES. THE ENTIRE INSTALLATION SHALL CONFORM WITH THE LATESET EDITION OF THE LOCAL AND STATE PLUMBING CODE IN ADDITION TO LANDLORD REQUIREMENTS AND SPECIFICATIONS.
16. THE OWNER SHOULD SUBMIT THESE PLANS TO LOCAL BUILDING, HEALTH AND FIRE DEPARTMENT OFFICIALS FOR APPROVAL.
17. CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED IN EXISTING BUILDING WHENEVER POSSIBLE.
18. CONTRACTORS TO PROVIDE AND INSTALL WALL BACKING FOR WALL SHELVES. WALL MOUNTED HANDSINKS, WALL MOUNTED COOKING EQUIPMENT, ETC. VERIFY THESE LOCATION WITH OWNER.
19. FLOOR DRAINS AND/OR FLOOR SINKS SHOWN ARE RECOMMENDED LOCATIONS, MECHANICAL ENGINEER TO VERIFY CODE REQUIREMENTS

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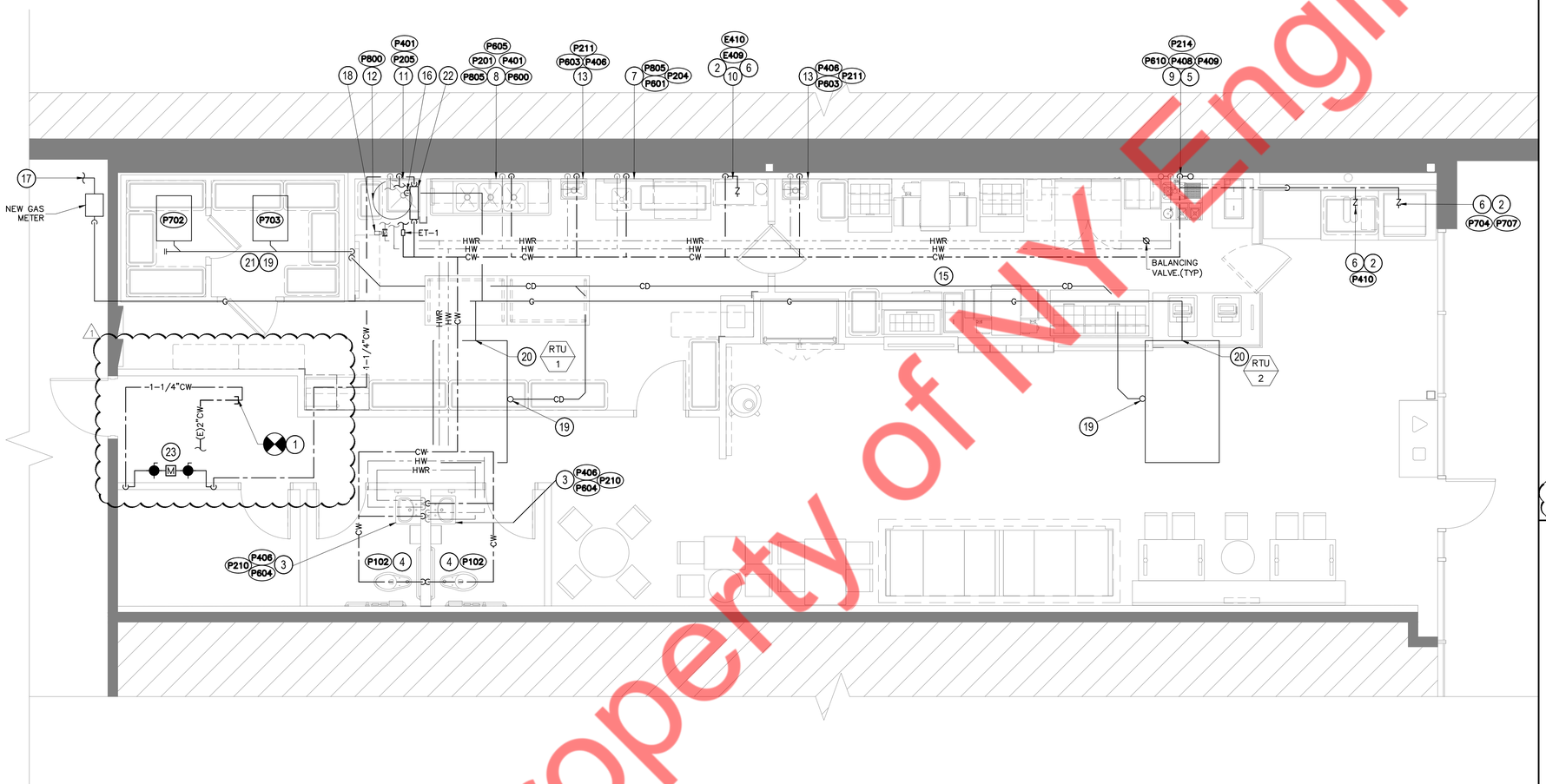
ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-10

SHEET TITLE
PLUMBING LEGEND AND NOTES
SHEET NUMBER
P1.0



01 PLUMBING SUPPLY PLAN

SCALE: 1/4"=1'-0"

GENERAL NOTES

A REFER TO SCHEDULES, DETAILS AND RISER DIAGRAMS FOR MORE INFORMATION ON SIZING OF PIPING TO EQUIPMENT.

B FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING AND START OF WORK.

C PROVIDE BALL VALVE ON THE HOT AND COLD WATER SUPPLY TO EVERY PLUMBING FIXTURE AND EQUIPMENT.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

KEYNOTES

1. WATER PIPING - CONNECT NEW 1-1/4" WATER PIPING TO THE LANDLORD PROVIDED 2" CW STUB. VERIFY EXACT LOCATION IN FIELD. GC TO PROVIDE NEW SUB-METER AT THIS LOCATION.
2. EQUIPMENT WATER CONNECTIONS - PROVIED A RPZ OR BACKFLOW PREVENTION ON ALL DIRECT WATER SUPPLY LINES TO EQUIPMENT.
3. LAVATORY - 1/2" CW AND HW DOWN IN WALL TO LAVATORY
4. WATER CLOSET - 1" CW DOWN IN WALL TO WATER CLOSET. PROVIDE WATER HAMMER ARRESTOR PRIOR TO FINAL CONNECTION (PDI TYPE "B")
5. DIPPERWELL - 1/2" CW DOWN IN WALL TO DIPPERWELL
6. BACKFLOW PREVENTOR - 1/2" CW DOWN IN WALL TO BACKFLOW PREVENTOR. BRANCH 1/2" CW TO ICE DISPENSER.
7. PREP SINK - 1/2" CW & HW DOWN IN WALL TO PREP SINK FAUCET.
8. 3-COMPARTMENT SINK - 3/4" CW AND HW DOWN IN WALL TO 3-COMPARTMENT FAUCET.
9. SHAKE STATION + RINSER - 1/2" CW & HW DOWN IN WALL TO SHAKE STATION FAUCET. PROVIDE ADDITIONAL 1/2" CW LINE FOR RINSER AT SHAKE STATION. PLUMBER TO SUPPLY A THREADED CONNECTION AND BACKFLOW PREVENTOR, IF REQ'D BY CODE.
10. BAG-N-BOX - 1/2" CW DOWN IN WALL TO BAG-N-BOX.
11. MOP SINK - 1/2" CW AND HW DOWN IN WALL TO MOP SINK FAUCET
12. WATER HEATER - 1" CW DOWN AND 1" HW AND 3/4" HWR, 140° HW UP FROM WATER HEATER MOUNTED ON WALL
13. HAND SINK - 1/2" CW AND HW DOWN IN WALL TO HAND SINK
14. DO NOT ROUTE ANY WATER PIPING OVER ELECTRICAL PANELS
15. 1" CONDENSATE DOWN FROM ROOFTOP UNITS ABOVE AND ROUTED AS HIGH AS POSSIBLE AS SHOWN.
16. ROUTE 3/4" LOW PRESSURE GAS PIPING ON ROOF ROUTE TO CONNECT TO GAS WATER HEATER. PROVIDE 6" DIRTLEG AND SHUTOFF PLUG VALVE PRIOR TO FINAL CONNECTION. VERIFY SIZE AND LOCATION IN FIELD.
17. NEW 1-1/2" POINT OF CONNECTION TO EXISTING GAS STUB ON ROOF. ROUTE TO CONNECT TO NEW GAS METER'S DEMAND= 376 CFH, (FIELD VERIFY ACTUAL LOCATION) CONTRACTOR TO CONNECT TO LANDLORD PROVIDED METER. DELIVERY PRESSURE: 7 IN W.C. APPROXIMATE LENGTH TO METER BANK 125'-0". CONTRACTOR TO VERIFY EXACT LENGTH AND LOCATION IN FIELD. VERIFY METER REQUIREMENTS WITH GAS COMPANY PRIOR TO WORK.
18. PROVIDE RECIRCULATING PUMP. BELL AND GOSETT NRF-22. 115V, 2940 RPM. PROVIDE WITH AQUASTAT.
19. CONDENSATE DRAIN DOWN FROM COOLER, FREEZER AND/ OR RTU'S DOWN INTERIOR WALL, DRAIN INDIRECTLY TO FLOOR SINK.
20. ROUTE 1" LOW PRESSURE GAS PIPING HIGH IN CEILING, UP THROUGH ROOF TO CONNECT TO GAS FIRED RTU'S. PROVIDE 6" DIRT LEG AND SHUT OFF PLUG VALVE PRIOR TO FINAL CONNECTION.
21. CONDENSATE DRAIN PIPING IN FREEZER, PROVIDE TYPE "L" COPPER CONDENSATE DRAIN PIPING WITH 1-1/2" THICK FIBERGLASS INSULATION OVER ELECTRICAL HEAT TRACE (SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR) SEE ELECTRICAL DRAWINGS. PVC CONDENSATE DRAINS INSIDE COOLERS, FROM EVAPORATOR COILS, SLOPE 2% AND HOLD TIGHT TO COOLER WALL. ALL SURFACE MOUNTED PIPING SHALL BE INSTALLED ON 1" SPACER TO ALLOW FOR CLEANING.
22. 1-1/4" CONDENSATE DOWN IN WALL FROM ABOVE AND SPILL INTO MOP SINK
23. CONTRACTOR TO FIELD VERIFY AND PROVIDE MAIN SHUT-OFF VALVE AND WATER METER AT AN ACCESSIBLE HEIGHT AS PER THE CODE REQUIREMENT.

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-10

SHEET TITLE
PLUMBING SUPPLY PLAN
SHEET NUMBER
P2.0

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PLUMBING GENERAL NOTES:

A REFER TO SCHEDULES, DETAILS AND RISER DIAGRAMS FOR MORE INFORMATION ON SIZING OF PIPING TO EQUIPMENT.

B FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING AND START OF WORK.

C VERIFY LOCAL PLUMBING AND HEALTH DEPT. DRAIN REQUIREMENTS FOR THE 3-COMPARTMENT SINK, PREP SINK, AND SHAKE SINK.

D P.C. TO VERIFY LOCATIONS OF SODA EQUIPMENT WITH VENDOR AND/OR OWNER. ADJUST PLUMBING LOCATIONS AS NECESSARY.

E G.C. TO PROVIDE ACCESS FOR SODA LINES IF NECESSARY. COORDINATE WITH VENDOR AND/OR OWNER.

F. ALL FLOOR DRAINS TO INCLUDE TRAP PRIMERS WITH BACKFLOW PREVENTER.

FIELD VERIFY ALL CONDITIONS

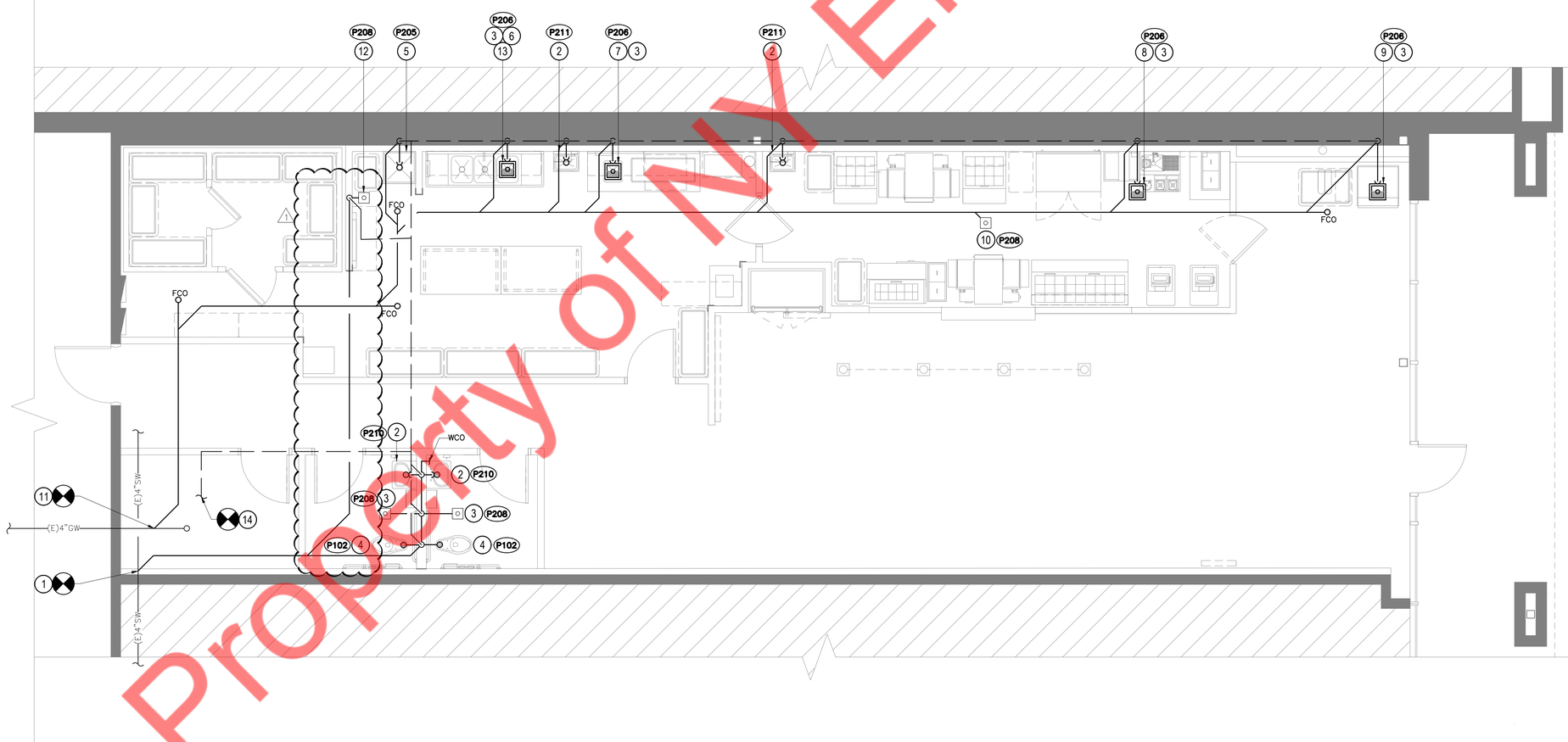
DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

SANITARY KEY NOTES:

1. POINT OF CONNECTION TO EXISTING LANDLORD PROVIDED 4" SANITARY WASTE PIPING. VERIFY EXACT SIZE, INVERT ELEVATION AND LOCATION IN FIELD PRIOR TO WORK. CONTACT ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
2. 2" WASTE DN AND 2" VENT UP IN WALL FROM SINK OR LAVATORY
3. 3" WASTE DN AND 2" VENT UP IN WALL FROM FLOOR DRAIN/SINK.
4. 4" WASTE DN AND 2" VENT UP IN WALL FROM WATER CLOSET.
5. 3" WASTE DN AND 2" VENT UP IN WALL FROM MOP SINK
6. INDIRECT WASTE WITH 2" GAP FROM 3 COMPARTMENT SINK TO FLOOR SINK.
7. INDIRECT WASTE WITH 2" GAP FROM PREP SINK TO FLOOR SINK
8. INDIRECT WASTE WITH 2" GAP FROM DIPPERWELL AND SINK TO FLOOR SINK
9. INDIRECT WASTE WITH 2" GAP FROM ICE MACHINE AND/OR TEA BREWER TO FLOOR SINK/ DRAIN.
10. 3" WASTE DOWN FROM FLOOR DRAIN/ FLOOR SINK.
11. POINT OF CONNECTION TO EXISTING LANDLORD PROVIDED 4" GREASE WASTE PIPING. ROUTE TO CONNECT TO EXISTING LANDLORD PROVIDED BELOW GRADE GREASE INTERCEPTOR. VERIFY EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURER IN FIELD PRIOR TO ANY WORK. MAKE SURE GREASE TRAP IS TO BE CLEANED OUT EVERY 60DAYS AS INSTRUCTED.
12. CONDENSATE FROM COOLER, FREEZER AND RTU'S TO SLOPE NOT LESS THAN 1/8" PER FOOT AND DISCHARGE INDIRECTLY INTO FLOOR DRAIN. PROVIDE MINIMUM 1" AIR GAP FROM LIP OF BASIN. PROVIDE WITH 7" FUNNEL.
13. FLOOR SINK AT 3-COMP SINK TO ALIGN WITH RIGHT SIDE BASIN. SEE DETAIL 03/P6.0.
14. 4" VENT THROUGH ROOF. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKES.



01 PLUMBING WASTE PLAN

SCALE: 1/4"=1'-0"

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-10

SHEET TITLE
PLUMBING WASTE PLAN

SHEET NUMBER
P3.0

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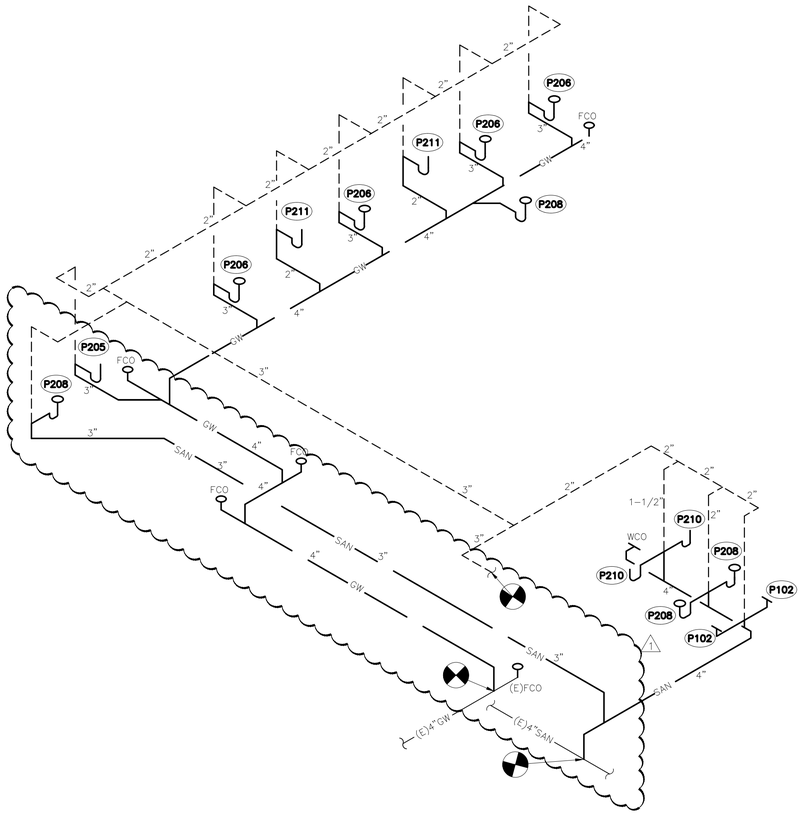
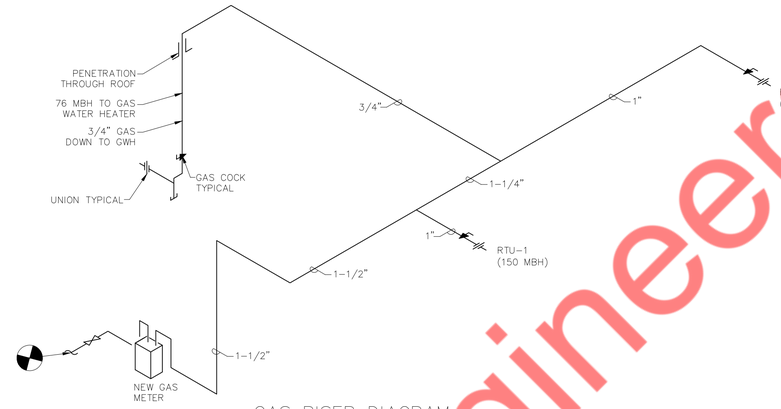
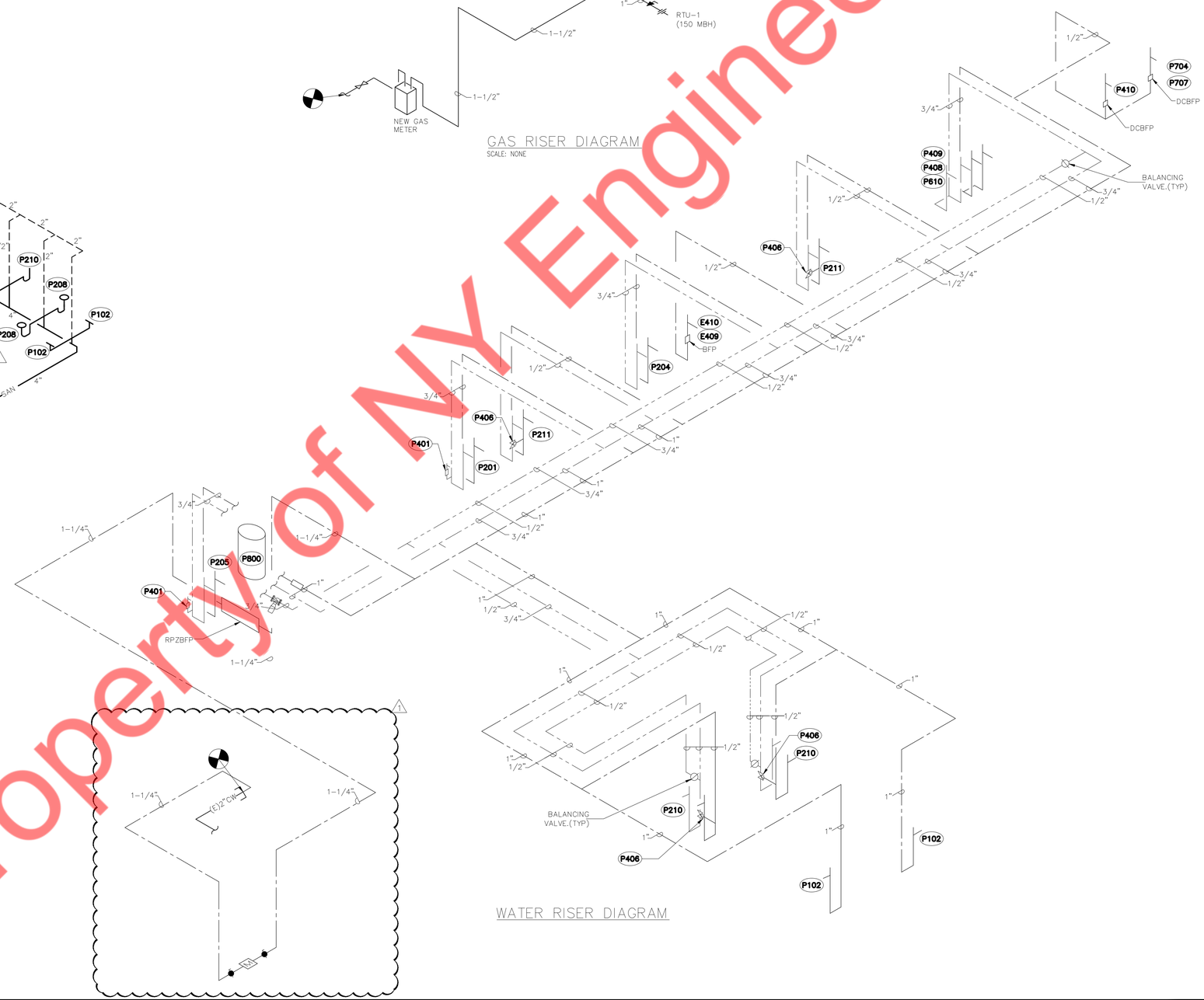


WASTE RISER DIAGRAM
SCALE: NONE



GAS RISER DIAGRAM
SCALE: NONE



WATER RISER DIAGRAM

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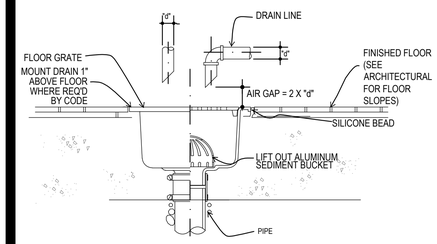
ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-10

SHEET TITLE
PLUMBING RISERS

SHEET NUMBER
P5.0

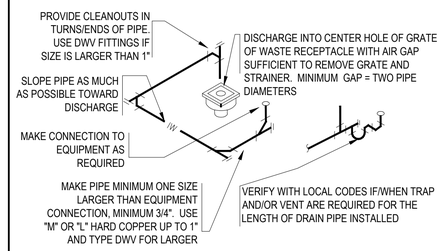


1 FLOOR SINK

Scale: 1:1

4 NOT USED

Scale: 1:1



ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

7 INDIRECT WASTE

Scale: NTS

GREASE INTERCEPTOR SIZING:

THE CALCULATION IS BASED ON GREASE CONTROL POLICY
(WINSTON - SALEM / FORSYTH COUNTY)

(1) 3 COMPARTMENT POT SINK, 2.0 WASTE DRAIN	33 X 1.0	=	33.00 GPM
(1) 1 COMPARTMENT PREP SINK (MEAT), 1.5 WASTE DRAIN	15 X 0.75	=	11.25 GPM
(1) MOP SINK, 3" WASTE DRAIN		=	6.00 GPM
			50.25 GPM

TOTAL GPM =50.25 X 24 MINUTES RETENTION TIME = 1.206 GALLONS
MINIMUM 1,000 GALLON GREASE INTERCEPTOR REQUIRED

NOTE:

1. CONTRACTOR TO FIELD VERIFY THE GREASE INTERCEPTOR LOCATION AND CAPACITY. THE GREASE INTERCEPTOR SHOULD BE EQUALS TO 1000 GALLONS (GB-1000) OR HIGHER MODEL.
2. GREASE TRAP IS TO BE CLEANED OUT EVERY 60 DAYS (EVERY OTHER MONTH AS INSTRUCTED).

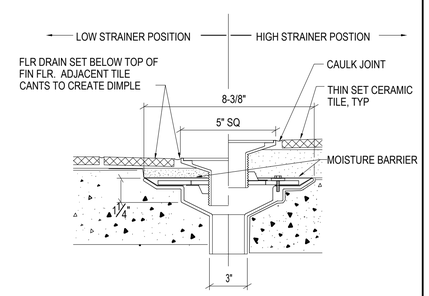
1

10 GREASE INTERCEPTOR SIZING

Scale: 1:1

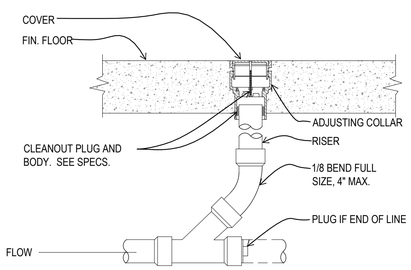
13 NOT USED

Scale: 1:1



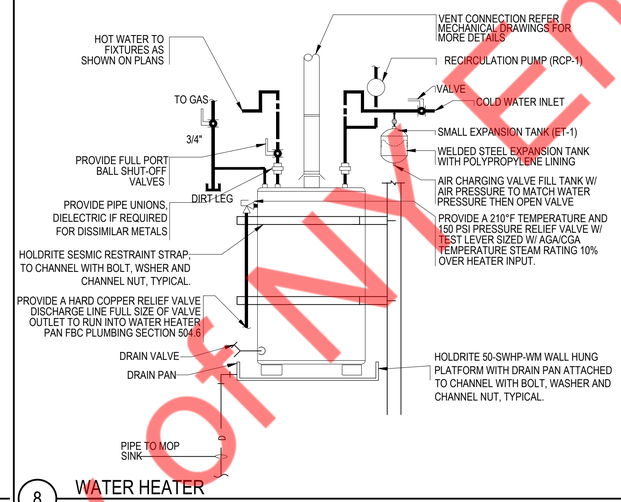
2 FLOOR DRAIN

Scale: N.T.S.



5 FLOOR CLEANOUT

Scale: N.T.S.



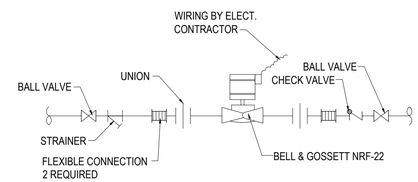
NEW WATER HEATER SCHEDULE	
MANUFACTURER	BRADFORD WHITE
MODEL	LC2PDV50H763N
EQUIPMENT TAG	WH-1
STATUS	NEW
QUANTITY	1
CAPACITY	48 GALLONS
FUEL	GAS
RECOVERY	80 GPH*
MBTU	76
WEIGHT (EMPTY)	290 LBS.

NOTES:

1. * OPERATION @ 100°F TEMPERATURE RISE.
2. INSTALLATION OF WATER HEATER TO BE MADE AS PER MANUFACTURER RECOMMENDATIONS.
3. INSTALL NEW EXPANSION TANK (ET-1) AMTROL MODEL THERM-X-TROL ST-5C-DD, 2.0 GAL VOLUME PER LOCAL CODE REQUIREMENTS.

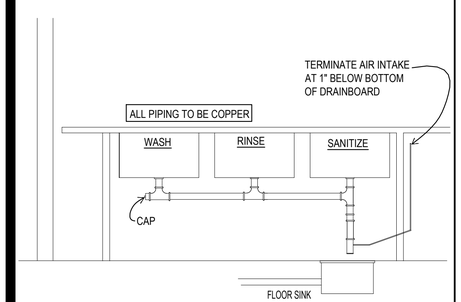
8 WATER HEATER

Scale: NTS



14 CIRCULATING PUMP DETAIL

Scale: N.T.S.



3 3-COMP. SINK

Scale: N.T.S.

6 NOT USED

NOT USED

12 NOT USED

Scale: N.T.S.

ISSUE DATE	
ISSUE	DATE
HEALTH COMMENT	2025-10-10

SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER
P6.0

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