MECHANICAL LEGEND

ABBREVIATION	DESCRIPTION
(E)	EXISTING (LIGHT LINE)
(N)	NEW (HEAVY LINE)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EOR	ENGINEER OF RECORD
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
SA	SUPPLY AIR
RA	RETURN AIR

SYMBOL	DESCRIPTION
(S)	SMOKE DETECTOR
#" x #"	DUCT SIZE INDICATING SHEET METAL DIMENSIONS. FIRST NUMBER WIDTH AND SECOND IS DEPTH (INCHES).
	DUCT ELBOW WITH TURNING VANE
	DUCT TEE WITH TURNING VANES
	MANUAL DAMPER WITH LOCKING QUADRANT.
	FLEXIBLE DUCT
	TAKE-OFF WITH MANUAL VOLUME DAMPER
	45° DUCT TAKE-OFF
	RECTANGULAR SUPPLY AIR DUCT UP
	RECTANGULAR RETURN AIR DUCT UP
	RECTANGULAR EXHAUST AIR DUCT UP
	ROUND DUCT UP
U.C. SIZE	DOOR UNDERCUT
	SUPPLY DIFFUSER
	RETURN OR TRANSFER GRILLE
	EXHAUST GRILLE
XXX	THERMOSTAT OR TEMPERATURE SENSOR FOR DEVICE "XXX"
	CONNECTION NEW TO EXISTING
X NECK SIZE CFM	AIR DEVICE TAG

NOTE: NOT ALL SYMBOLS ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.

SPECIFICATION GENERAL NOTES

GENERAL NOTES:

A. REVIEW THE CONTRACT CONDITIONS AND GENERAL REQUIREMENTS FOR INFORMATION THAT APPLIES.
B. THE WORD "PROVIDE" IS USED TO MEAN "FURNISH AND INSTALL."
C. PROVIDE ALL ITEMS FOR A COMPLETE AND SUCCESSFUL OPERATION OF ALL SYSTEMS SHOWN ON THESE DRAWINGS.
D. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF THE WORK. LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONED. MINOR MODIFICATIONS IN LOCATION TO MEET SITE REQUIREMENTS ARE ACCEPTABLE. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS AND DIMENSIONS.
E. THE ARCHITECTURAL AND ENGINEERING DRAWINGS ARE COMPLEMENTARY. GENERAL CONTRACTORS, SUBCONTRACTORS, AND VENDORS SHALL ACKNOWLEDGE ALL THE ARCHITECTURAL AS WELL AS ALL THE ENGINEERING DRAWINGS AND INCLUDE ALL WORK NECESSARY TO ACHIEVE A COMPLETE WORKING INSTALLATION FOR ALL DEVICES OR EQUIPMENT WHICH MAY BE SHOWN ON ONE DRAWING BUT NOT SHOWN ON ANOTHER. WHERE ELEMENTS ARE INDICATED OR DESCRIBED IN ANY DRAWING, IT IS THE INTENT THAT ALL RELATED CONSTRUCTION ASSOCIATED WITH SUCH ELEMENTS IS TO BE INCLUDED IN ORDER TO OBTAIN A COMPLETE INSTALLATION. FOR INSTANCE, IF A PIECE OF EQUIPMENT IS IDENTIFIED IN THE ARCHITECTURAL AND/OR MECHANICAL DRAWINGS, BUT THE ELECTRICAL CIRCUIT FOR SUCH EQUIPMENT IS NOT IDENTIFIED IN THE ELECTRICAL DRAWINGS, THE CONTRACTOR IS TO PROVIDE SUCH CIRCUIT IN ORDER TO HAVE FULLY OPERATIONAL EQUIPMENT. FOR ANOTHER EXAMPLE, IF A SINK IS INDICATED, IT IS THE INTENT THAT RELATED PLUMBING WORK INCLUDING DRAINS, VENT, PIPING, VALVES, ETC. ARE TO BE INCLUDED IN ORDER TO RESULT IN A FULLY OPERATIONAL SYSTEM. NO SUBCONTRACTOR SHALL BE ALLOWED TO EXCLUDE PORTIONS OF THE COMPLIMENTARY DRAWING SET.
F. LAY OUT ALL WORK IN ADVANCE. DO NOT DEFACE THE WORK OF OTHER TRADES OR THE EXISTING BUILDING.
G. LOCATION OF PIPES, DUCTS, SWITCHES, PANELS, EQUIPMENT, AND FIXTURES SHALL BE ADJUSTED TO ACCOMMODATE THE WORK OR INTERFERENCES ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH PIPE AND DUCT PRIOR TO FABRICATION.
G.A. RIGHT-OF-WAY: LINES WHICH PITCH SHALL HAVE THE RIGHT-OF-WAY OVER THOSE WHICH DO NOT PITCH. LINES WHOSE ELEVATIONS CANNOT BE CHANGED SHALL HAVE THE RIGHT-OF-WAY OVER LINES WHOSE ELEVATIONS CAN BE CHANGED.
G.B. OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION: OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION OF PIPES AND DUCTS SHALL BE MADE AS REQUIRED TO MAINTAIN PROPER HEADROOM AND PITCH OF SLOPING LINES WHETHER OR NOT INDICATED ON THE DRAWINGS.
G.C. FURNISH AND INSTALL ALL TRAPS, AIR VENTS, SANITARY VENTS, AND DEVICES AS REQUIRED TO EFFECT THESE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION.
H. ALL PENETRATIONS OF FIRE RATED WALLS, FLOORS, AND CEILINGS SHALL HAVE THE SPACE AROUND PENETRATIONS SEALED WITH A FIRE BARRIER SEALANT MEETING THE REQUIREMENTS OF U.L. STANDARD 1479 AND ASTM-E 814. INSTALL SEALANT IN FULL COMPLIANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.
I. ALL MATERIALS LOCATED ABOVE CEILING SHALL BE SUITABLE FOR USE WITHIN A RETURN AIR PLENUM AS REQUIRED BY THE ADOPTED EDITION OF THE INTERNATIONAL MECHANICAL CODE.
J. WHEN USING A TORCH OR OTHER FLAME-PRODUCING DEVICE ON THIS PROJECT, CONTRACTOR SHALL PROVIDE ONE APPROVED FIRE EXTINGUISHER OR WATER HOSE EQUIPPED WITH A SUITABLE NOZZLE, SUFFICIENT IN LENGTH TO REACH ALL PORTIONS OF THE BUILDING AND CONNECTED TO A WATER SUPPLY ON THE PREMISES WHERE SAID BURNING OPERATION IS PERFORMED. COMBUSTIBLE MATERIAL IN THE CLOSE PROXIMITY OF OPEN FLAME SHALL BE PROTECTED AGAINST IGNITION BY SHIELDING, WETTING, OR OTHER MEANS. IN ALL CASED, A FIRE WATCH SHALL BE MAINTAINED IN THE VICINITY OF THE OPERATION BY THE CONTRACTOR FOR ONE-HALF HOUR AFTER THE TORCH OR FLAME-PRODUCING DEVICE HAS BEEN USED.
K. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE PROJECT AND TAKE INTO CONSIDERATION CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE APPROVED FOR FAILURE TO VISIT THE SITE PRIOR TO PRICING THE WORK.
L. MAINTAIN A CONTRACT SET OF THESE DRAWINGS AT THE SITE, WITH ALL CHANGES OR DEVIATIONS FROM THE ORIGINAL DRAWINGS NEATLY MARKED ON THEM IN RED COLOR. THIS SHALL BE A SEPARATE SET OF DRAWINGS NOT USED FOR CONSTRUCTION PURPOSES, WHICH SHALL BE KEPT UP TO DATE AS THE JOB PROGRESSES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE ENGINEER AT ALL TIMES. UPON COMPLETION OF THE CONTRACT, THIS SET OF "AS-BUILTS" SHALL BE DELIVERED TO THE OWNER WITHIN 15 DAYS OF COMPLETION OF THE PROJECT.
M. MATERIAL SHALL BE AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED IF SUBMITTED FOR PRIOR APPROVAL AT LEAST ONE (1) WEEK PRIOR TO THE CONTRACT BID DATE. SUBSTITUTIONS SHOULD BE SUBMITTED SEPARATELY FOR EACH PRODUCT WITH SUPPORTING DATA, DRAWINGS AND SAMPLES AS APPROPRIATE, INCLUDING: 1.) COMPARISON OF THE QUALITIES OF THE PROPOSED SUBSTITUTION WITH THAT SPECIFIED. 2.) CHANGES REQUIRED IN OTHER ELEMENTS OF THE WORK BECAUSE OF THE SUBSTITUTION. 3.) COST DATA COMPARING THE PROPOSED SUBSTITUTION WITH THE PRODUCT SPECIFIED. THE ENGINEER WILL DETERMINE THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION.
N. SUBMIT ELECTRONIC PDF OF MANUFACTURER'S SHOP DRAWINGS FOR EQUIPMENT AND DEVICES. PRIOR TO SUBMITTING THE SHOP DRAWINGS FOR REVIEW, THE CONTRACTOR SHALL REVIEW AND CERTIFY SAME AS TO COMPLIANCE WITH THE PLANS AND SPECIFICATIONS AND FOR DIMENSIONAL SUITABILITY FOR THE APPLICATIONS.
O. WHEN ALTERNATE OR SUBSTITUTED EQUIPMENT IS USED, CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPACE REQUIREMENTS, CONFIGURATIONS, CHANGES IN SUPPORTS OR STRUCTURAL MEMBERS, ELECTRICAL REQUIREMENTS, AND COORDINATION OF OTHER TRADES THAT MAY BE AFFECTED BY THEIR USE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SAME WHEN USING LISTED APPROVED MANUFACTURERS OTHER THAN THE BASIS OF DESIGN.
P. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED FOR TESTING OF INSTALLED EQUIPMENT.
Q. THE CONTRACTOR SHALL DEMONSTRATE THE PROPER OPERATION AND CALIBRATION OF ALL SYSTEMS TO THE OWNER, AT A TIME AS AGREED TO BY THE OWNER AND DIRECTED BY THE OWNER.
R. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR ALL SYSTEMS WITHIN 15 DAYS OF THE COMPLETION OF THE PROJECT.
S. THE CONTRACTOR SHALL INCLUDE THE COST FOR COMMISSIONING BY PCD ENGINEERING TO VERIFY THE PERFORMANCE OF THE SYSTEM CONTROLS SHOWN ON THIS DRAWING. THIS INCLUDES PREPARING A COMMISSIONING PLAN, VERIFYING THE OPERATION OF ALL SYSTEMS PER CODE REQUIREMENTS, AND PROVIDING A FINAL COMMISSIONING REPORT. FINAL COMMISSIONING REPORT IS DUE UPON COMPLETION OF THE PROJECT.

CODES, REGULATIONS, AND STANDARDS:

1. ALL WORK SHALL BE IN STRICT ACCORD WITH LOCAL GOVERNING LAWS, ORDINANCES, AND REGULATIONS; ALL WORK MUST BE IN FULL ACCORDANCE WITH ALL CODES, ORDINANCES, AND CODE RULINGS. CONTRACTOR SHALL PROVIDE, WITHOUT EXTRA CHARGE, THE LABOR AND MATERIALS REQUIRED FOR FULL CODE COMPLIANCE.
2. ALL MATERIALS SHALL BE NEW AND SHALL COMPLY WITH THE SPECIFICATIONS ON DRAWINGS.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY THE WORK OF THE PROJECT. THE CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS WHEN THEY BECOME DUE AND SHALL NOT COVER NEW WORK UNTIL APPROVED BY THE INSPECTION AUTHORITY.

GUARANTEE:

4. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS, AND EQUIPMENT PROVIDED FOR THE PROJECT AGAINST DEFECTS AND/OR FAULTY WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
5. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE DEFECTIVE OR FAULTY WORKMANSHIP, MATERIALS, OR EQUIPMENT, AND SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF OTHER PROPERTY OR WORK DAMAGED AS A RESULT, WITHOUT CHARGE TO THE OWNER AND AS QUICKLY AS POSSIBLE, DURING THE GUARANTEE PERIOD.

BUILDING CODE DATA

	CODE	EDITION
GENERAL	BUILDING SUBCODE (IBC 2021)	CURRENT
HVAC/MECHANICAL	MECHANICAL SUBCODE (IMC 2021)	CURRENT
PLUMBING	PLUMBING SUBCODE (NSPC 2021)	CURRENT
ELECTRICAL	ELECTRICAL SUBCODE (NEC 2020)	CURRENT
FIRE PROTECTION	NJ STATE FIRE PREVENTION CODE (IFC 2015)	CURRENT
	NFPA STANDARDS	CURRENT
FUEL	FUEL GAS SUBCODE (IFGC 2021)	CURRENT
ENERGY	ENERGY SUBCODE (ASHRAE 90.1-2019)	CURRENT
LOCAL AMENDMENTS	NEW JERSEY ADMINISTRATIVE CODES (NJAC)	CURRENT

NOTES:
A. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE LISTED CODES, LOCAL CODE AMENDMENTS, AND REFERENCED STANDARDS AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AH J).
B. ALL WORK SUBJECT TO INSPECTION BY THE AHJ AT THE PROJECT SITE FOR COMPLIANCE

PROJECT DESCRIPTION

THIS PROJECT CONSIST OF A TENANT FINISH OF A BRAND NEW CORE AND SHELL BUILDING. THE TENANT FINISH OF THIS 2,400 SQUARE FOOT SPACE WILL BE A RESTAURANT. THE RESTAURANT NEW MECHANICAL WORK INCLUDES NEW ROOFTOP UNITS, NEW KITCHEN HOOD SYSTEM WITH EXHAUST FAN/MAKEUP AIR UNIT, AND NEW RESTROOM EXHAUST FAN.

SPECIFICATION GENERAL NOTES CONTINUED

DEMOLITION NOTES:

1. VERIFY LOCATION OF EXISTING SYSTEMS AND EXISTING FIELD CONDITIONS.
2. REVIEW ALL SHEETS FOR OTHER DEMO AND REMOVAL REQUIREMENTS.
3. COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECTURAL DRAWINGS.
4. ALL CONFLICTS, OMISSIONS, AND CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING FOR A WRITTEN RESOLUTION, BEFORE PROCEEDING WITH WORK SO INVOLVED.
5. UNLESS SPECIFICALLY NOTED TO THE CONTRARY, REMOVED MATERIALS SHALL NOT BE REUSED IN THE WORK. SALVAGED MATERIALS THAT ARE TO BE REUSED SHALL BE STORED SAFE AGAINST DAMAGE AND TURNED OVER TO THE APPROPRIATE TRADE FOR REUSE.
6. WHERE INDICATED, SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER. THESE MATERIALS ARE TO BE REMOVED BY THE SUBCONTRACTOR AND TURNED OVER TO THE OWNER WITHOUT DAMAGE. ALL OTHER SALVAGED MATERIALS SHALL BECOME THE PROPERTY OF THE SUBCONTRACTOR, WHO SHALL REMOVE AND LEGALLY DISPOSE OF OR (PREFERABLY) RECYCLE THEM AWAY FROM THE PREMISES.
7. WORK THAT HAS BEEN CUT OR PARTIALLY REMOVED SHALL BE PROTECTED AGAINST DAMAGE UNTIL COVERED BY PERMANENT CONSTRUCTION.
8. INSPECT, CLEAN, AND RECONDITION ALL EQUIPMENT AND ACCESSORIES THAT ARE TO BE REUSED. REMOVE ALL MUD, DEBRIS, RUST AND OTHER EXTRANEOUS MATERIALS SO THAT THE EXISTING EQUIPMENT AND ALL ACCESSORIES CAN BE REPAINTED AND REPAIRED AS REQUIRED TO PLACE IN FIRST CLASS WORKING CONDITION.
9. WHERE EXISTING EQUIPMENT IS REMOVED, PIPING OR CONDUIT SHALL BE CAPPED UNDER THE FLOOR OR BEHIND THE WALL FACE, UNLESS OTHERWISE NOTED.
10. REPAIR ALL WALL, FLOOR, AND CEILING PENETRATIONS TO MAINTAIN THE EXISTING FIRE RATING AND FINISHES.

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Contents:

MECHANICAL LEGENDS AND NOTES

M010

TEMPERATURE CONTROLS

1. THE HVAC SYSTEM CONTROLS ARE TO BE FULLY AUTOMATIC UNLESS OTHERWISE LISTED BELOW.
   1.1. CONTROLS SHALL HAVE INTEGRAL FAULT DETECTION AND DIAGNOSTIC CAPABILITIES.
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INTERFACE WITH LINE VOLTAGE WIRING, CONNECTIONS, RELAYS, ETC.
3. SETPOINTS:
   3.1. OCCUPIED:
      3.1.1. HEATING: 70 DEGREES FAHRENHEIT (ADJUSTABLE).
      3.1.2. COOLING: 75 DEGREES FAHRENHEIT (ADJUSTABLE).
   3.2. UNOCCUPIED:
      3.2.1. HEATING: 55 DEGREES FAHRENHEIT (ADJUSTABLE).
      3.2.2. COOLING: 85 DEGREES FAHRENHEIT (ADJUSTABLE).
4. THERMOSTATS OR TEMPERATURE SENSORS:
   4.1. ALL SETPOINTS ARE TO BE ADJUSTABLE.
   4.2. TEMPERATURE CONTROL SETUP AND SETBACK SHALL BE ACCOMPLISHED BY MEANS OF A DEDICATED PROGRAMMABLE THERMOSTAT WITH ADJUSTABLE HEATING AND COOLING SETPOINTS.
   4.3. CONTRACTOR SHALL PROGRAM THERMOSTATS FOR OCCUPIED/UNOCCUPIED PERIODS BASED ON A SCHEDULE PROVIDED BY OWNER.
   4.4. CONTROLS SHALL HAVE A 5 DEGREE F. DEAD-BAND FOR AUTO-CHANGEOVER SYSTEMS, WITH OVERLAP RESTRICTIONS.
   4.5. SYSTEM SHALL HAVE A MINIMUM OF A 7-DAY PROGRAM.
   4.6. PROVIDE A 2-HOUR MINIMUM OCCUPIED OVERRIDE.
   4.7. PROVIDE MINIMUM A 10-HOUR BATTERY BACKUP.
5. CONTROLS ARE TO BE ELECTRIC/ ELECTRONIC.
6. ROOFTOP UNITS (RTU-1, RTU-2):
   6.1. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPER SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
   6.2. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS VIA TIME CLOCK SCHEDULE (OWNER DETERMINED)
7. EXHAUST FAN (EF-2):
   7.1. EXHAUST FAN TO RUN DURING ALL OCCUPIED HOURS (OWNER DETERMINED).
8. KITCHEN HOOD SYSTEM (HD-1, EF-1, MAU-1):
   8.1. EXHAUST FAN EF-1 AND MAKE UP AIR UNIT MAU-1 SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
   8.2. EF-1 AND MAU-1 SHALL HAVE AUTOMATIC CONTROLS TO ENGAGE WHEN ANY APPLIANCE UNDER HD-1 IS TURNED ON.

HVAC GENERAL NOTES

1. THE NEW MECHANICAL SYSTEMS SHALL BE BY THE MECHANICAL CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO:
   1.1. THE AIR DISTRIBUTION SYSTEMS WITH: AIR HANDLING EQUIPMENT, DUCTWORK, FLEXIBLE DUCT, DIFFUSERS, GRILLES, DAMPERS, CONTROL SYSTEMS, ETC.
2. CONTRACTOR SHALL SECURE THE SERVICES OF AN INDEPENDENT TEST, ADJUST, AND BALANCE CONTRACTOR WHO IS A MEMBER OF THE NEBB OR EQUIVALENT. FOLLOWING ALL TAB WORK, SUBMIT TEST RESULTS IN A BOUND MANUAL, STAMPED AND SIGNED BY A CERTIFIED BALANCING SUPERVISOR OR REGISTERED PE ON STAFF WITH TAB CONTRACTOR. REQUIRED FINAL AIR AND HYDRONIC BALANCE TOLERANCE SHALL BE +10% TO -5% OF QUANTITIES SHOWN ON THESE PLANS.
3. PROJECT DESIGN CONDITIONS ARE:
   3.1. LOCATION: BRIDGETON, NEW JERSEY
   3.2. SITE ELEVATION: 105 FEET.
   3.3. HVAC DESIGN CONDITIONS PER CHVAC LOAD PROGRAM WHICH MEETS OR EXCEEDS ASHRAE 99% HEATING, 1% COOLING ARE:
      3.3.1. LOCATION USED FOR CONDITIONS: VINELAND, NEW JERSEY
      3.3.2. HEATING OUTDOOR DB: 11 DEGREES FAHRENHEIT.
      3.5.3. COOLING OUTDOOR DB/MCWB: 89/74 DEGREES FAHRENHEIT.
      3.5.4. INDOOR DESIGN TEMPERATURES AS STATED IN THE TEMPERATURE CONTROLS INFORMATION.
4. IDENTIFY ALL HVAC AND REFRIGERATION EQUIPMENT AS TO THE AREA SERVED BY THE EQUIPMENT. IDENTIFICATION SHALL BE ENGRAVED PLASTIC TAGS PERMANENTLY AFFIXED TO EACH PIECE OF EQUIPMENT.
5. PROVIDE ALL CURBS, SUPPORTS, AND ANCHORS FOR MECHANICAL WORK. NO CHAIN, TAPE OR WIRE MAY BE USED FOR HANGING OR SUPPORTING.
6. RECEIVE, UNCRATE, ASSEMBLE, AND INSTALL ALL EQUIPMENT FURNISHED BY THIS CONTRACT AND FURNISHED BY THE OWNER IN CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS.
7. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. WHERE DUCT LINER IS USED, OVERALL OUTSIDE DUCT DIMENSIONS SHALL BE ADJUSTED TO ALLOW FOR LINER THICKNESS.
8. ALL SHEET METAL TO BE MADE AND INSTALLED TO SMACNA STANDARDS (AND IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE) WITH 45 DEGREE MAXIMUM REDUCING, 30 DEGREE MAXIMUM EXPANDING TRANSITIONS. ALL EXPOSED RECTANGULAR TO BE PAINT LOCK GALVANIZED. SINGLE BLADE TURNING VANES AND 1.5 CENTERLINE RADIUS FOR ALL ELBOWS AND TEES.
9. ALL SUPPLY AND RETURN RECTANGULAR DUCTS TO HAVE 1" THICK 2 LB/CF DENSITY ACOUSTIC DUCT LINER MINIMUM R-5 CLASS I, UL-181.
10. ALL OUTSIDE AIR DUCTS TO HAVE R-8 1-1/2" THICK AND 1-1/2 LB/CF DENSITY UL 181 CLASS ONE FIBERGLASS DUCT WRAP.
11. DUCT LINER SHALL BE ATTACHED WITH STIC-CLIPS 15"OC EACH WAY AND 100% COVERAGE OF FLAME PROOF ADHESIVE. INCREASE DUCT TO ALLOW FOR LINER. SEAL ALL DUCT AIRTIGHT WITH TWO COATS OF DUCT SEALANT. DUCT SEALANT TO BE CLEAR PAINTABLE SILICON CAULK ON ALL EXPOSED DUCTWORK.
12. CAULK ALL DUCT LONGITUDINAL AND TRANSVERSE JOINTS AND SEAMS AIR AND WATER TIGHT WITH PERMANENT COMMERCIAL CAULK PER MANUFACTURER'S RECOMMENDATIONS.
13. CONCEALED ROUND SUPPLY DUCTS SHALL BE LOW-PRESSURE CONSTRUCTION, SEALED AIRTIGHT AND EXTERNALLY INSULATED WITH 1-1/2", 3/4 LB/CF DENSITY BLANKET INSULATION WITH FOIL SCRIM KRAFT FACING. FOIL TAPE ALL JOINTS, MINIMUM R5 FIBERGLASS.
14. EXPOSED ROUND DUCTS SHALL BE PAINT LOCK SPIRAL ONE GAGE HEAVIER THAN SMACNA STANDARD. HARD PIPE TO DIFFUSERS (NO FLEX) AND SEAL WITH CLEAR, PAINTABLE, SILICONE CAULK.
15. ALL FLEXIBLE DUCTWORK SHOWN SHALL BE INSULATED, CLASS I, UL 181, SEMI-RIGID FLEXIBLE DUCT. R4.2 FLEXMASTER 5M OR THERMOPILEX XMK, AND SHALL CONFORM TO LOCAL CODES. NO FLEX DUCT IN EXPOSED AREAS.
16. ALL FLEXIBLE DUCT TAKEOFFS SHALL BE CONICAL BELL MOUTH SPIN-IN FITTINGS WITH MANUAL VOLUME DAMPER WHERE POSSIBLE. MAKE CONNECTION WITH DRAW BANDS AT EACH END OF FLEX.
17. ALL FLEXIBLE DUCT TO BE SAME SIZE AS DIFFUSER CONNECTION.
18. LIMIT FLEXIBLE DUCTWORK TO 5-FT MAXIMUM LENGTH.
19. THIS CONTRACTOR SHALL COORDINATE ALL DUCTWORK PRIOR TO INSTALLATION.
20. WEATHERPROOF ALL MECHANICAL ROOF PENETRATIONS PER CODES AND ALL ROOFING MANUFACTURER RECOMMENDATIONS.
21. PROVIDE SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS FOR MECHANICAL SYSTEMS OVER 2000 CFM (INDIVIDUALLY OR COLLECTIVELY IN A SHARED RETURN AIR PLENUM) AS REQUIRED BY SECTION 606 OF THE INTERNATIONAL MECHANICAL CODE.
22. PROVIDE SLEEVES AND COLLARS FOR ALL DUCTWORK AND PIPES THROUGH WALL, FLOORS, AND CEILINGS. SEAL ALL EXTERNAL PENETRATIONS OF FIRE RATED WALL, FLOORS, AND CEILINGS WITH APPROVED FIRE STOP MATERIAL IN COMPLIANCE WITH ASTM E 814 AND UL 1479..
23. CONFIRM VOLTAGE, PHASE, AND AMPACITY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. ALL CONTROL AND INTERLOCK WIRING FOR MECHANICAL EQUIPMENT BY MECHANICAL CONTRACTOR. THREE-PHASE MOTORS TO HAVE MAGNETIC STARTERS WITH PROTECTION ON ALL THREE LEADS. CONTROL AND HEATING/COOLING EQUIPMENT TO AUTOMATICALLY RESTART AFTER POWER FAILURE. ALL WIRING SHALL BE WITHIN CONDUIT AS REQUIRED BY CODE.
24. A MINIMUM CLEARANCE OF 30 INCHES SHALL BE PROVIDED AROUND ALL EQUIPMENT (I.E., FANS, PUMPS, BOILERS, AIR CONDITIONERS, ETC.) FOR SERVICE AND MAINTENANCE AND AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS.
25. ROOF MOUNTED EQUIPMENT LOCATED WITHIN 10 FEET OF THE EDGE OF THE ROOF SHALL BE PROVIDED WITH SAFETY RAILINGS AS REQUIRED PER CODES OR AS DETAILED ON THE ARCHITECTURAL DRAWINGS.
26. REFRIGERANT PIPING SHALL BE TYPE "ARC" SOFT OR HARD DRAWN COPPER WITH WROUGHT COPPER BRAZED FITTINGS.
   26.1. INSULATE ALL EXPOSED NEW PIPING, VALVES AND FITTINGS FOR REFRIGERANT SUCTION LINE SERVICE:
      26.1.1. 1/2" THICK ELASTOMERIC PIPE INSULATION INSTALLED IN COMPLIANCE WITH MANUFACTURERS STANDARD INSTALLATION INSTRUCTIONS.
      26.1.2. REFRIGERANT SUCTION PIPE INSULATION SHALL BE WRAPPED WITH ALUMINUM JACKETING SECURED TO PIPE AND INSULATION AT MINIMUM 24" ON CENTER.
27. ALL PIPE INSULATION MATERIALS SHALL CONFORM TO ASTM 84, NFPA 50A AND 255 AND UL 723 NOT TO EXCEED RATING OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPED. ALL INSTALLED INSULATION SHALL MEET OR EXCEED ASHRAE STANDARD 90.1.
28. ALL DUCT AND PIPE INSULATION EXPOSED OUTSIDE SHALL BE WEATHER PROTECTED AND UV RESISTANT WITH ALUMINUM JACKET.
29. SEE TEMPERATURE CONTROLSTHIS SHEET FOR TEMPERATURE CONTROLS REQUIREMENTS.
30. ALL RECIRCULATED AIR SHALL PASS THROUGH STANDARD 2" THICK PLEATED MERV 8 THROW AWAY FILTERS. PROVIDE ONE ADDITIONAL SET FOR OWNER AT PROJECT COMPLETION.
31. INSTALL ALL NEW MECHANICAL EQUIPMENT IN COMPLETE COMPLIANCE WITH MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS. ARRANGE ALL EQUIPMENT TO PERMIT EASY REMOVAL OF COILS, MOTORS, FILTERS, AND ALL OTHER PARTS WHICH MIGHT REQUIRE PERIODIC REPLACEMENT OR MAINTENANCE.
32. GENERAL NOTES APPLY TO MECHANICAL SHEETS.
33. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
34. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
35. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

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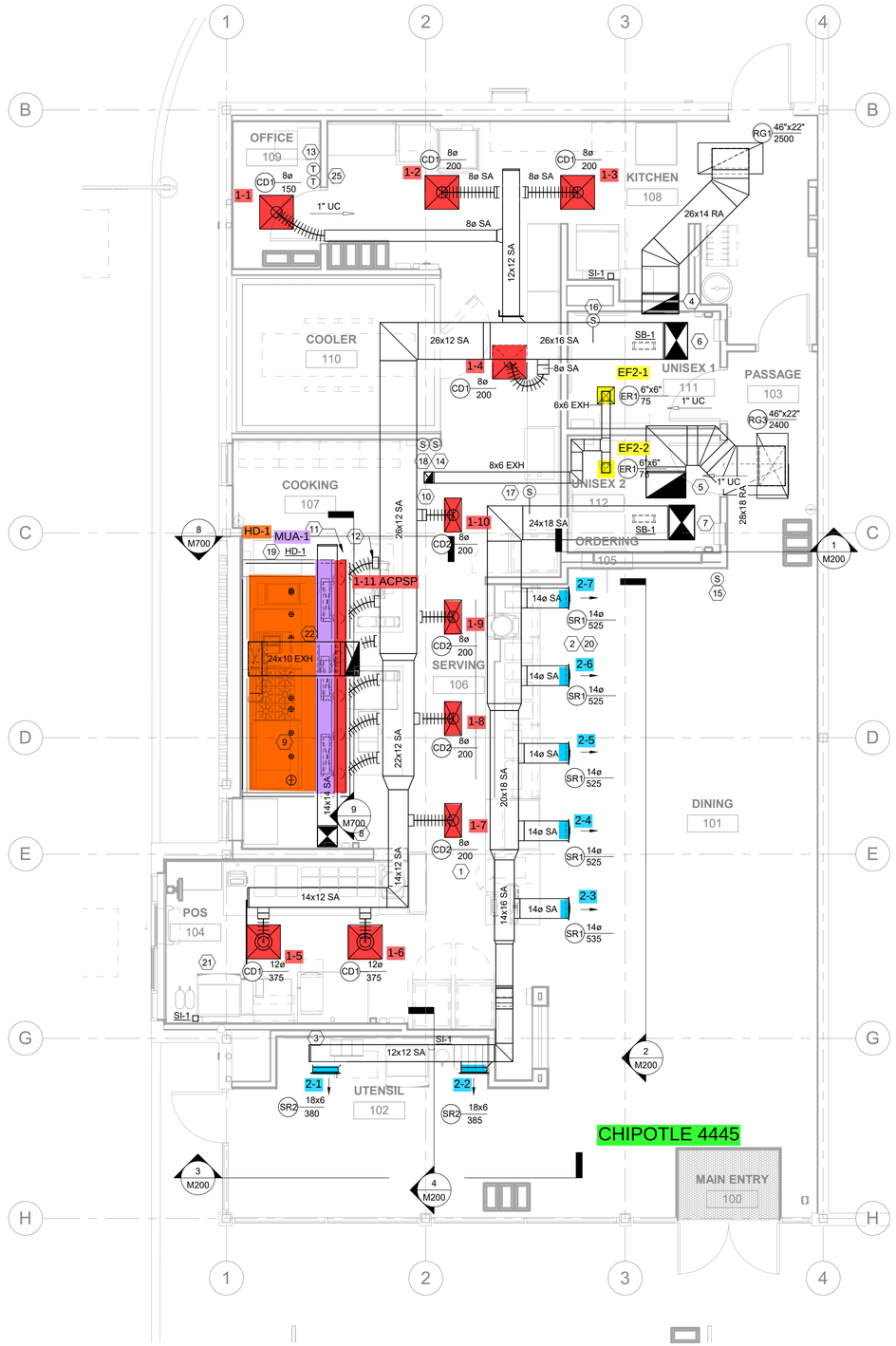
Contents:

MECHANICAL CONTROLS AND NOTES

M020

KEY NOTES: (#)

1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2 PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3 PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
4 26"x14" DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5 18"x28" DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6 26"x16" DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7 24"x18" DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8 14"x14" DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9 24"x10" DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10 8"x6" DUCT UP THROUGH ROOF TO EF-2.
11 28"x6" DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL OF 3.
12 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. TYPICAL OF 6. CAP UNUSED DUCT CONNECTIONS.
13 INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
15 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
16 INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17 INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18 INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 66" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
19 INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20 ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
21 PROVIDE INTEGRAL HEATED AIR CURTAIN IN DRIVE THRU WINDOW ASSEMBLY. SEE ARCH FOR DETAILS.
22 PROVIDE GREASE DUCT ACCESS DOORS PER SECTION 506 OF THE INTERNATIONAL MECHANICAL CODE.



1/M100 **MECHANICAL FLOOR PLAN**
1/4" = 1'-0"

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

Consultant:

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MECHANICAL FLOOR PLANS

M100

KEY NOTES: (#)

1 INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.

2 INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.

3 INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

4 INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.

5 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.

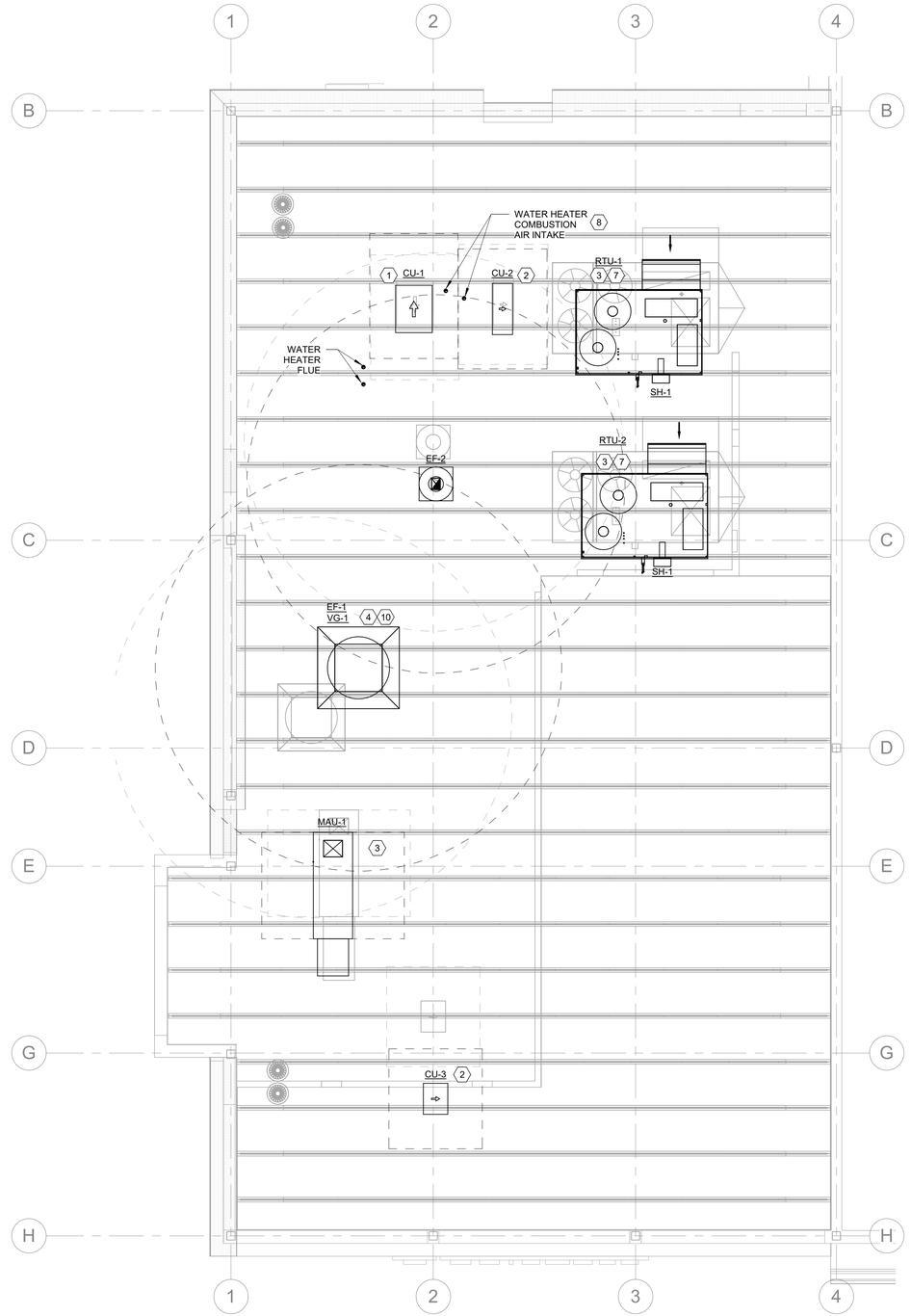
6 PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.

7 INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.

8 MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.

9 INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.

10 PROVIDE HINGED ROOF CURB TO ACCESS DUCT FOR CLEANING.



1 M110 **MECHANICAL ROOF PLAN**
1/4" = 1'-0"

4' 2' 0' 4' 8'
GRAPHIC SCALE: 1/4" = 1'-0"

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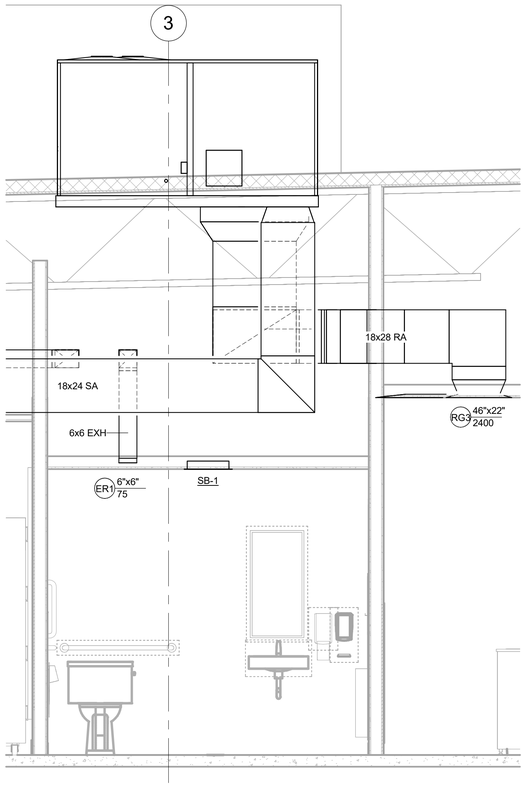
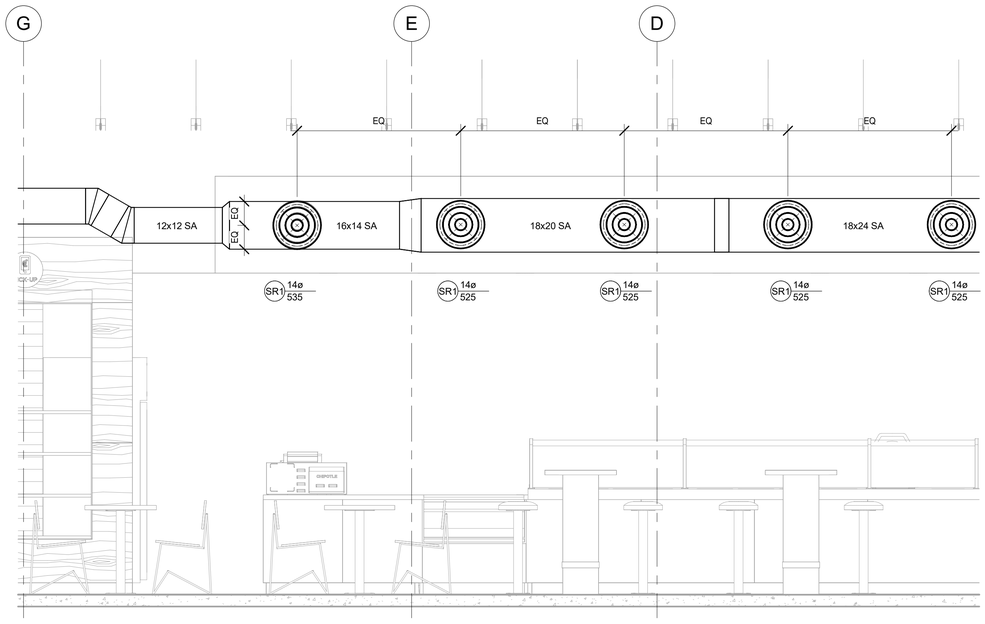
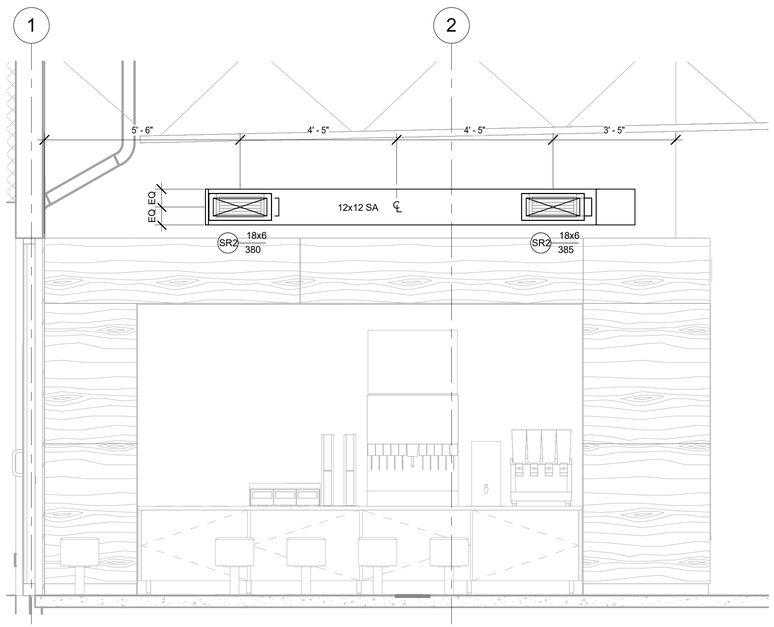
M110



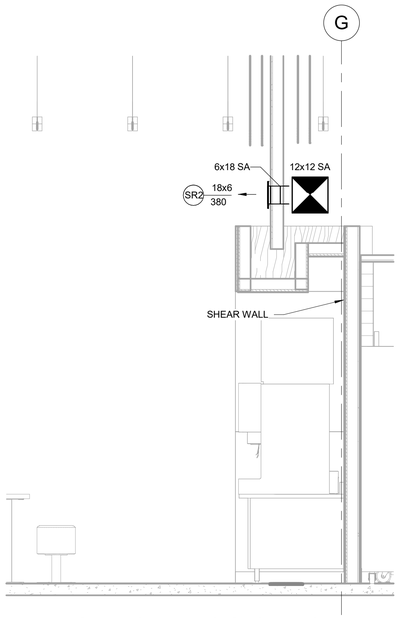
1 M200 **HVAC DINING ROOM RETURN SECTION**
1/2" = 1'-0"



2 M200 **HVAC MAIN DINING ROOM SECTION**
1/2" = 1'-0"



3 M200 **HVAC UTENSIL AREA SECTION NORTH**
1/2" = 1'-0"



4 M200 **HVAC UTENSIL AREA SECTION WEST**
1/2" = 1'-0"

2' 1' 0' 2' 4'
GRAPHIC SCALE: 1/2" = 1'-0"

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MECHANICAL SECTIONS

M200

AIR BALANCE SCHEDULE

TAG	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUBTOTAL (CFM)
EF-1	0	0	2550	-2550
EF-2	0	0	150	-150
MAU-1	1300	0	0	1300
RTU-1	3000	2500	0	500
RTU-2	3400	2400	0	1000
			NET PRESSURIZATION	100

VENTILATION CALCULATIONS

Ventilation Calculations Comply with: ASHRAE 62.1

Room Name	Room Area (Az)	Room Type	Zone Air Distribution Effectiveness (Ez)	Number of People (Pz)	CFM/Person (Rp)	CFM/sqft	Breathing Zone OA (Vbz)	Zone Outdoor Airflow (Voz)	System Ventilation Efficiency (Ev)	Required Outdoor Air Intake (Vot)	Outside Air Provided
RTU-1 & MAU-1 - KITCHEN (MULTIPLE ZONE WITH SINGLE RECIRC)											
104 - POS	225	Cafeteria, fast food	0.8	23	7.5	0.18	213	267	0.65	**949**	**1000**
106 - SERVING	81	Cafeteria, fast food	0.8	8	7.5	0.18	75	94			
107 - COOKING	354	Kitchens (cooking)	0.7 CFM/SF EXHAUST								
108 - KITCHEN (FOOD PREP)	350	Cafeteria, fast food	0.8	35	7.5	0.18	326	407			
109 - OFFICE	45	Office spaces	0.8	1	5	0.06	8	10			
Total							**621**	**778**			
RTU-2 - DINING (SINGLE ZONE)											
101 - DINING/ORDERING	714	Dining rooms	0.8	42	7.5	0.18	457	571	N/A	**577**	**500**
102 - UTENSIL	74	Dining rooms									
103 - PASSAGE	68	Corridors	0.8	0	0	0.06	4	6			
Total							**461**	**577**			

HVAC MATERIAL SCHEDULE

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

AIR DEVICE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FINISH	MOUNTING	FACE SIZE	NECK SIZE	OPPOSED BLADE DAMPER	SERVICE	MAXIMUM NOISE CRITERIA (NC)	NOTES
CD-1	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	ALUMINUM	WHITE	LAY-IN	24" X 24"	SEE PLANS	YES	SUPPLY	35	2, 3, 5
CD-2	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	ALUMINUM	WHITE	SURFACE	24" X 12"	SEE PLANS	YES	SUPPLY	35	2, 3, 4, 5
CD-3	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE S	ALUMINUM	WHITE	SURFACE	20" X 20"	SEE PLANS	YES	SUPPLY	35	2, 3, 5
ER-1	PERFORATED CEILING EXHAUST	NAILOR	4330R TYPE S	ALUMINUM	WHITE	SURFACE	12" X 12"	SEE PLANS	YES	EXHAUST	35	2, 3
RG-1	PERFORATED CEILING RETURN	NAILOR	4330R TYPE L	ALUMINUM	WHITE	LAY-IN	48" X 24"	SEE PLANS	NO	RETURN	35	2, 3
RG-3	PERFORATED CEILING RETURN	NAILOR	4330R TYPE S	ALUMINUM	WHITE	SURFACE	48" X 24"	SEE PLANS	NO	RETURN	35	2, 3
SR-1	ADJUSTABLE TURBO NOZZLE	AIRCONCEPTS	ANR14	ALUMINUM	WHITE	WALL	NECK + 1-2"	SEE PLANS	YES	SUPPLY	35	2, 3
SR-2	DOUBLE DEFLECTION SUPPLY REGISTER	NAILOR	51DH	ALUMINUM	WHITE	WALL	NECK + 2"	SEE PLANS	YES	SUPPLY	35	2, 3, 5

NOTES:
1. SEE ELECTRICAL PLAN FOR CONNECTION INFORMATION.
2. MAXIMUM STATIC PRESSURE DROP OF 0.15"WC UNLESS OTHERWISE NOTED.
3. SEE PLANS FOR SIZES AND QUANTITIES.
4. REMOVE 4-WAY DEFLECTORS.
5. PROVIDE WITH INTEGRAL OBD.

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL				NOTES
				COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/P/H		
CU-1	CONDENSING UNIT - WALK IN COOLER	HARFORD	KPCL99MZOP-3E	1	1	R-404A	10.4 LB	250 LBS	15 A	9 A	208/3/60		1, 2
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER	HOSHIZAKI	URC-9F	0	1	R-404A	11.46 LB	100 LBS			120/1/60		1, 3
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER	HOSHIZAKI	URC-5F	0	1	R-404A	3.86 LB	100 LBS			120/1/60		1, 3

NOTES:
1. EQUIPMENT SPECIFIED BY OTHERS, SHOWN FOR REFERENCE ONLY.
2. FURNISHED WITH WALK-IN COOLER.
3. FURNISHED WITH ICE MAKER.

EXHAUST FAN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	LOCATION	FAN DATA			ELECTRICAL DATA						NOTES
						AIRFLOW	E.S.P.	MOUNT	DRIVE	MOTOR POWER	FLA	VOLTAGE	PHASE		
EF-1	UPBLAST UL762 EXHAUST FAN	CAPTIVEAIRE	DU180HFA	KITCHEN HOOD	ROOF	2,550 CFM	1.45"WC	ROOF CURB	DIRECT	2.0 HP	8.3	208	3		1-4
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	CAPTIVEAIRE	DR12HFA	RESTROOMS	ROOF	150 CFM	0.6"WC	ROOF CURB	DIRECT	0.25 HP	2.9	115	1		5-7

NOTES:
1. WEATHERPROOF DISCONNECT.
2. 20" HIGH VENTED ROOF CURB
3. GREASE DRAIN.
4. ENVIROMATIC VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM (VG-1).
5. INTEGRAL DISCONNECT.
6. SPEED CONTROL.
7. 26" CURB WITH BACKDRAFT DAMPER.
8. E.S.P. INCLUDES E.S.P. OF EXHAUST PLENUM LISTED IN KITCHEN HOOD SCHEDULE.

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	MAX COOKING TEMP	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS								# OF LIGHT FIXTURES	WEIGHT	NOTES
					AIRFLOW	E.S.P.	WIDTH	LENGTH	DUCT COLLARS			WIDTH	LENGTH	MAKEUP AIR PLENUM				HVAC PLENUM				
									#	WIDTH	LENGTH			AIRFLOW	DUCT COLLARS			AIRFLOW	DUCT COLLARS			
															#	WIDTH	LENGTH		#	DIAMETER		
HD-1	TYPE 1 CANOPY HOOD WITH PERFORATED MAU AND HVAC SUPPLY PLENUMS	CAPTIVEAIRE	5424 ND-2-ACPSP-F	600 DEG. F.	2,550 CFM	0.97" WC	4'-3"	13'-9"	3	6"	2'-4"	1'-10"	15'-3"	1,300 CFM	3	6"	2'-4"	700 CFM	6	8"	8	1,150 LBS	1-11

NOTES:
1. 18 GAUGE TYPE 430 STAINLESS STEEL CONSTRUCTION.
2. FURNISHED WITH VAPORPROOF INCANDESCENT LIGHT FIXTURES.
3. 16" TALL HE SS FILTERS.
4. INTEGRAL UTILITY CABINET.
5. ANSUL SYSTEM.
6. DUCT COLLAR TEMPERATUER SENSOR.
7. PREWIRE PACKAGE.
8. SPARE FIRE SYSTEM DRY CONTACT.
9. 4-POLE 20A CONTACTOR.
10. DVC-1 KITCHEN FAN CONTROL CENTER TO ENGAGE ASSOCAITED MAKE-UP AIR UNIT AND EXHAUST FAN AND CONTROL LIGHTS.
11. UL LISTED FIRE SUPPRESSION AND GREASE COLLECTION SYSTEM.

SANITIZING EQUIPMENT SCHEDULE

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

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	AIRFLOW	E.S.P.	HEATING DATA			ELECTRICAL DATA				WEIGHT	NOTES
							INPUT	OUTPUT	TEMP RISE	MOTOR POWER	FLA	VOLTAGE	PHASE		
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	CAPTIVEAIRE	A1-D.250-15D	KITCHEN HOOD	1,300 CFM	0.5"WC	90.4 MBH	83.2 MBH	60 DEG. F.	1.0 HP	3.1	208	3	495 LBS	1-7

NOTES:
1. 12.5:1 MAXIMUM TURNDOWN.
2. FURNISHED WITH DISCONNECT.
3. 20" ROOF CURB.
4. SCREENED INTAKE.
5. WASHABLE ALUMINUM FILTERS.
6. DOWN DISCHARGE SUPPLY AIR.
7. INTERLOCKED WITH KITCHEN HOOD.

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	NOMINAL CAPACITY	AIRFLOW			COOLING DATA						HEATING DATA			ELECTRICAL DATA					NOTES
					SUPPLY AIR	OUTSIDE AIR	E.S.P.	REFRIGERANT	EAT (°F)	EWBT (°F)	TOTAL CAPACITY (NET)	SENSIBLE CAPACITY (NET)	EER	IEER	FUEL	INPUT	OUTPUT	MOCP	MCA	VOLTAGE	PHASE	
RTU-1	KITCHEN ROOFTOP UNIT	CARRIER	48FCDM08A3M5-6U0C0	7.5 TONS	3,000 CFM	500 CFM	0.61"WC	R-410A	78.2	65.8	91.64 MBH	65.46 MBH	11.2	15	N. GAS	125 MBH	103 MBH	50	40	208	3	1-9
RTU-2	DINING ROOM ROOFTOP UNIT	CARRIER	48FCDM08A3M5-6U0C0	8.5 TONS	3,400 CFM	1000 CFM	0.64"WC	R-410A	79.8	67.2	105.58 MBH	78.95 MBH	11.2	15	N. GAS	180 MBH	148 MBH	50	42	208	3	1-9

NOTES:
1. FURNISHED WITH ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
2. SMOKE DETECTOR WITH REMOTE KEYED ANNUNCIATOR/RESET.
3. MOTORIZED OUTSIDE AIR DAMPER.
4. MERV-8 FILTERS.
5. ROOF CURB.
6. HAIL GUARD.
7. TOOL-LESS HINGED ACCESS PANELS.
8. UNIT DISCONNECT.
9. UNIT-MOUNTED CONVENIENCE RECEPTACLE.

VIROGUARD SCHEDULE

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

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2019) Standard
Project Title:	CMGX - Bridgeton, NJ
Location:	Bridgeton, New Jersey
Climate Zone:	4a
Project Type:	Alteration

Construction Site:
16 CENTERON RD.
BRIDGETON, New Jersey 08302

Owner/Agent:

Designer/Contractor:
BOWMAN CONSULTING GROUP LTD.
323 3RD AVE STE #100
LONGMONT, Colorado 80503
303-678-1108

Mechanical Systems List

Quantity System Type & Description

1 RTU-1
Heating: 1 each - Central Furnace, Gas, Capacity = 103 kBtu/h
Proposed Efficiency = 82.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE)
Cooling: 1 each - Single Package DX Unit, Capacity = 91 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.20 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.70 IEER
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Single-Zone VAV, 3000 CFM, 3.0 motor nameplate hp, 1.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

SYSTEM VERIFICATION REQUIRED.

1 RTU-2
Heating: 1 each - Central Furnace, Gas, Capacity = 148 kBtu/h
Proposed Efficiency = 82.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE)
Cooling: 1 each - Single Package DX Unit, Capacity = 105 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.20 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 15.00 IEER, Required Part Load Efficiency = 12.70 IEER
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Single-Zone VAV, 3000 CFM, 3.0 motor nameplate hp, 1.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

SYSTEM VERIFICATION REQUIRED.

1 DWH-1
Gas Instantaneous Water Heater, Capacity: 1 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
No minimum efficiency requirement applies

SWH COMPLIANCE REQUIRED.

1 DWH-2
Gas Instantaneous Water Heater, Capacity: 1 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
No minimum efficiency requirement applies

SWH COMPLIANCE REQUIRED.

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BRIDGETON, NJ 08302

Issue Record:

03/10/2023	PERMIT SET
03/01/2024	IFC SET

Revisions:

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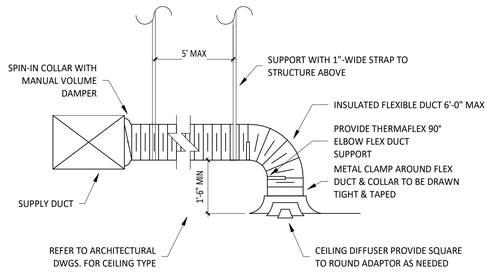
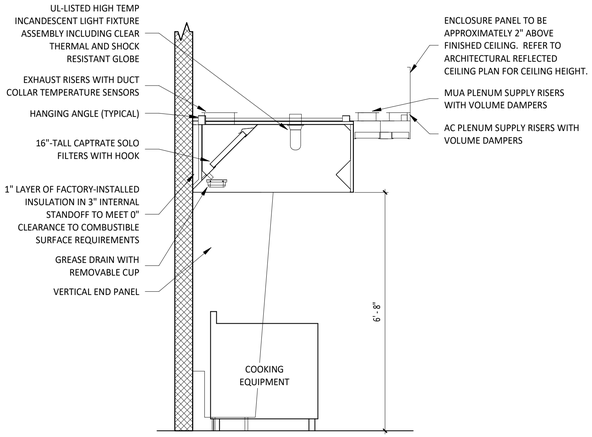
Contents:
MECHANICAL SCHEDULES

M600



NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

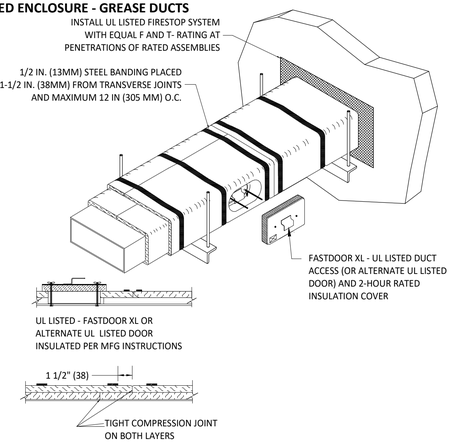
1 M700 DIFFUSER CONNECTION
NOT TO SCALE



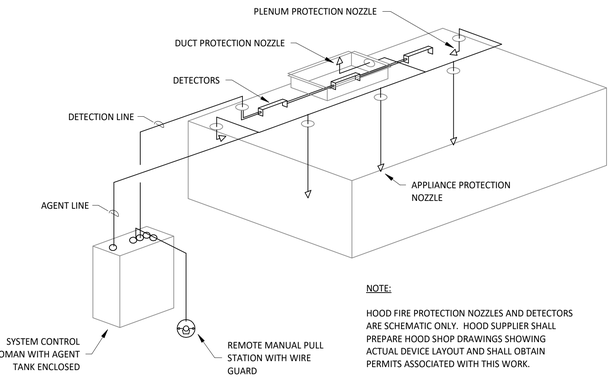
2 M700 HOOD SECTION VIEW
NOT TO SCALE

FIRE RATED ENCLOSURE - GREASE DUCTS

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   NFPA 96
   INTERNATIONAL MECHANICAL CODES
   UNIFORM MECHANICAL CODE.
   MECHANICAL SUBCODE (IMC 2021)
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



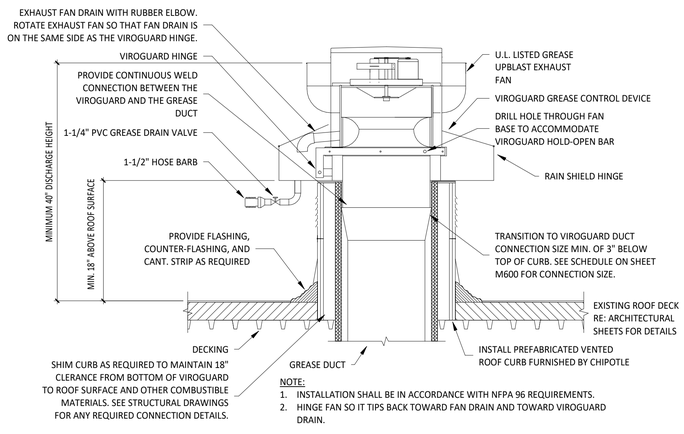
3 M700 FIREMASTER DUCT WRAP - UL HNKT-G18
NOT TO SCALE



NOTE:

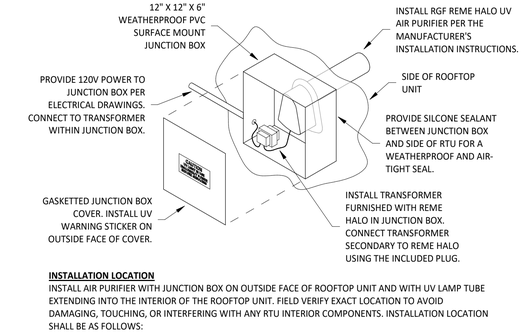
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4 M700 FIRE SUPPRESSION SYSTEM SCHEMATIC
NOT TO SCALE



NOTE:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

5 M700 GREASE EXHAUST FAN
NOT TO SCALE



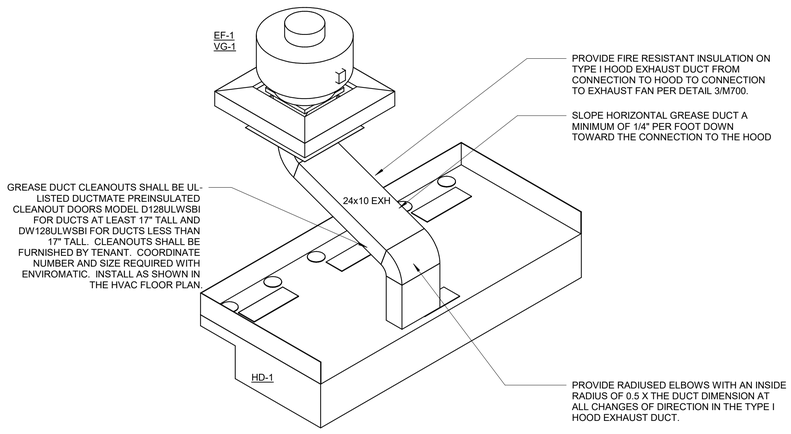
INSTALLATION LOCATION

INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

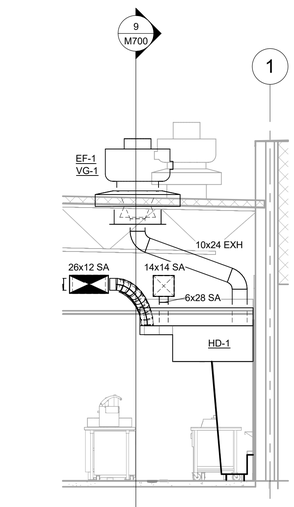
TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.

YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

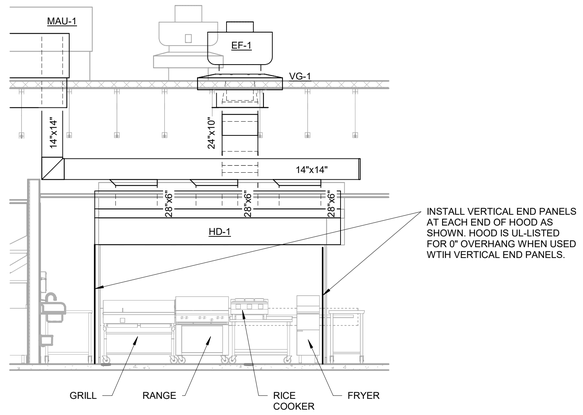
6 M700 UV AIR PURIFIER INSTALLATION
NOT TO SCALE



7 M700 HOOD EXHAUST ISOMETRIC
NOT TO SCALE



8 M700 DUCT SECTION AT HOOD
NOT TO SCALE



9 M700 HOOD ELEVATION
NOT TO SCALE

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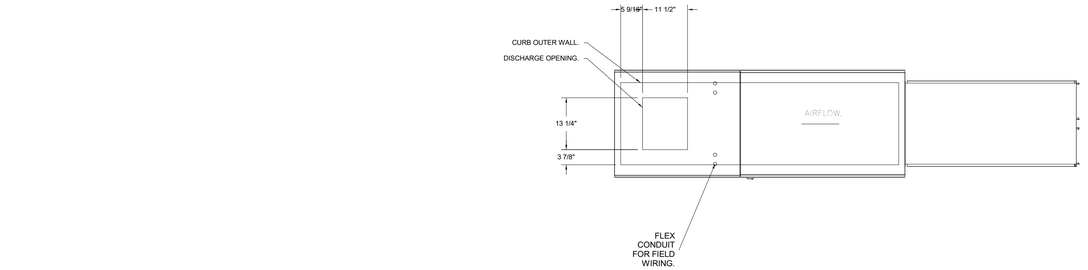
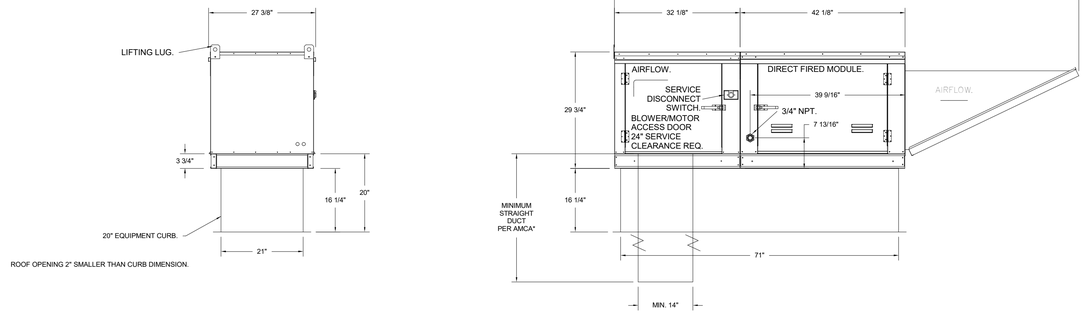
Contents:

MECHANICAL DETAILS

M700

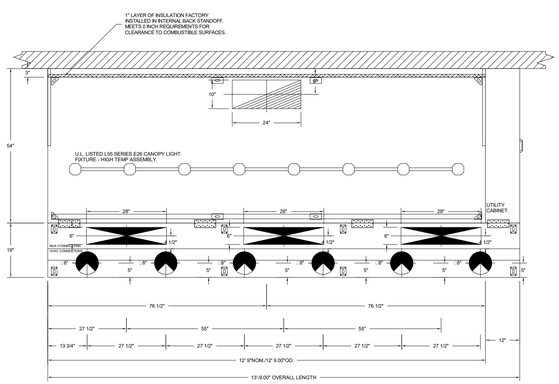




1 M710

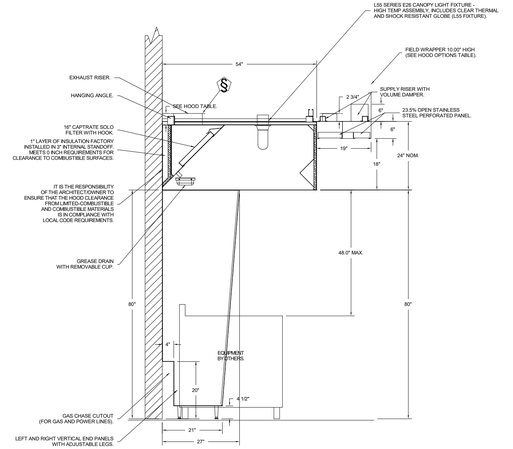
MAKEUP AIR UNIT DETAIL

NOT TO SCALE



PLAN VIEW - HOOD #1
12' 9.00" LONG 5424ND-2-ACPSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



SECTION VIEW - MODEL 5424ND-2-ACPSP-F
HOOD - #1

2 M710

KITCHEN HOOD DETAIL

NOT TO SCALE

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