

KEYNOTES: (A) KEYNOTE TAG SYMBOL

1. NEW 18" KITCHEN GREASE DUCT CONNECTION TO THE INTO EXISTING BASE-BUILDING EXHAUST SYSTEM, COORDINATE EXACT LOCATION IN FIELD.
2. NEW 12" TENANT TOILET EXHAUST CONNECTION TO THE INTO EXISTING BASE-BUILDING EXHAUST SYSTEM, COORDINATE EXACT LOCATION IN FIELD.
3. NEW 9" TENANT OUTSIDE AIR CONNECTION TO THE INTO EXISTING BASE-BUILDING OUTSIDE AIR SYSTEM, COORDINATE EXACT LOCATION IN FIELD.
4. NEW 14" SUPPLY AIR CONNECTION FOR OUTSIDE AIR FAN OAF-1 TO THE INTO EXISTING BASE-BUILDING INTAKE LOUVER, COORDINATE EXACT LOCATION IN FIELD.
5. NEW 16"12" SUPPLY AIR CONNECTION FOR MAKE-UP AIR UNIT MAU-1 TO THE INTO EXISTING BASE-BUILDING INTAKE LOUVER, COORDINATE EXACT LOCATION IN FIELD.
6. PROVIDE FULL-SIZE GOOSENECK BLACK-IRON VERTICAL DUCT EXTENSION FROM KEF-1 DISCHARGE OUTLET OPENING TERMINATING MIN. 2 FEET ABOVE HIGHER ROOF PARAPET WALL.

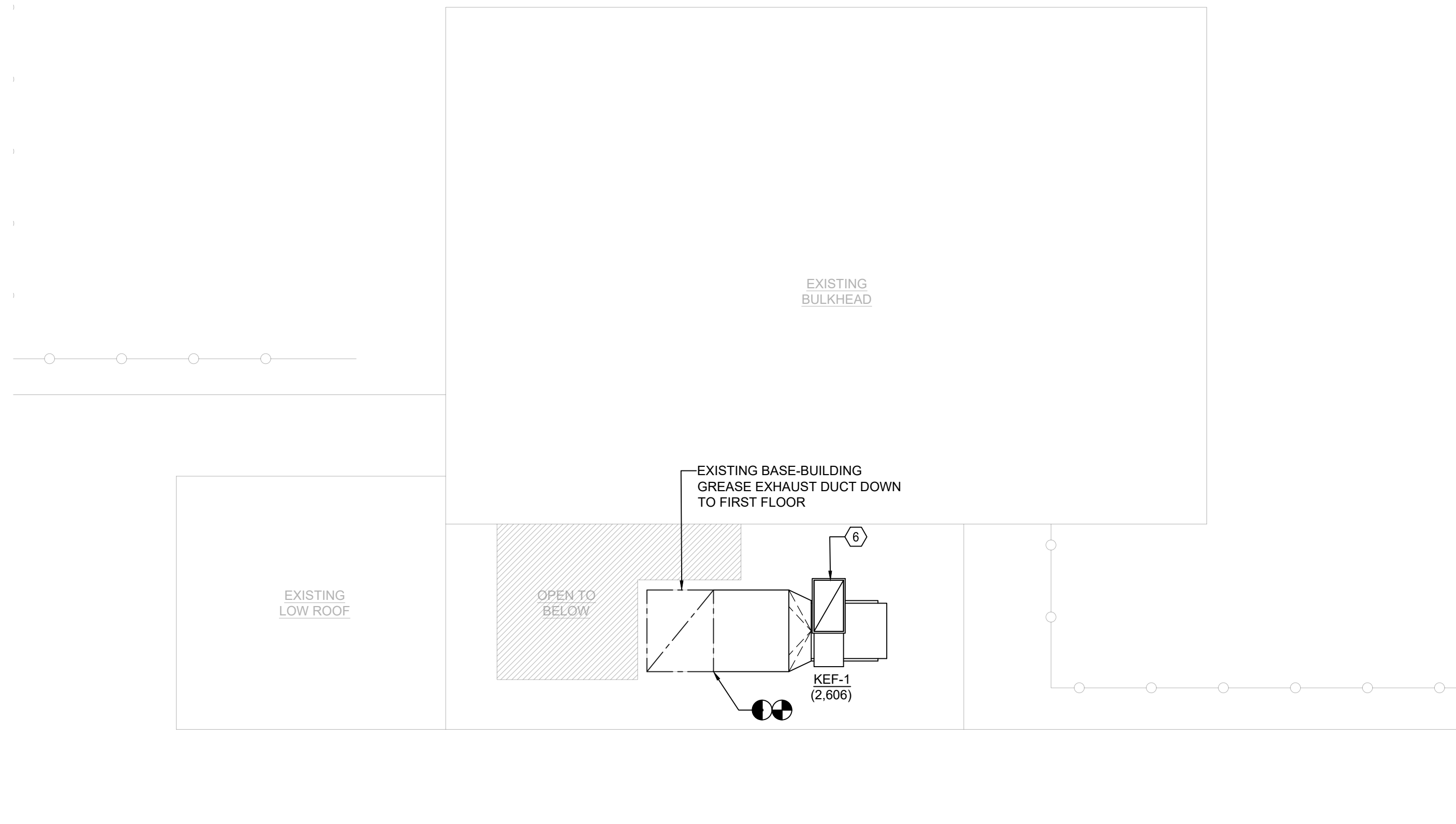
GENERAL KITCHEN EXHAUST NOTES:

1. KITCHEN GREASE DUCT INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OUTLINED IN THE 2022 NYC MECHANICAL CODE, SECTION 506.
2. TYPE-I KITCHEN EXHAUST HOOD FURNISHED BY OTHERS, INSTALLED BY MECHANICAL CONTRACTOR. TYPE-I GREASE EXHAUST DUCT SYSTEM TO BE ENGINEERED AND FACTOR FABRICATED IN COMPLIANCE WITH UL STANDARDS.
3. TYPE I GREASE HOOD EXHAUST DUCTWORK SHALL BE MINIMUM 12 GAUGE BLACK IRON WITH LIQUID TIGHT WELD.
4. INSULATE KITCHEN EXHAUST DUCTS WITH MINIMUM THICKNESS REQUIRED TO PROVIDE 2-HOUR FIRE RATING, BUT NO LESS THAN TWO (2) LAYERS. WRAP SHALL BE SIMILAR TO FIREMASTER MODEL FASTWRAP XL (OR APPROVED EQUAL).
5. PROVIDE GREASE CLEANOUTS AT EVERY CHANGE IN DIRECTION AND NOT SPACED MORE THAN 20 FEET APART IN HORIZONTAL SECTIONS OF DUCT.
6. EXHAUST TERMINATION SHALL BE LOCATED NOT LESS THAN 10 FEET FROM ADJACENT BUILDINGS, PROPERTY LINES, INTAKE OPENINGS AND SHALL BE LOCATED NOT LESS THAN 10 FEET ABOVE GRADE LEVEL.
7. GREASE DUCT SHALL BE INSTALLED AND SLOPED TO PREVENT GREASE ACCUMULATION. SLOPE SHALL BE NO LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) TOWARD THE HOOD.
8. ALL GREASE DUCT AND EXHAUST EQUIPMENT SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18 INCHES AND SHALL HAVE A CLEARANCE OF NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES OF NOT LESS THAN 6 INCHES.
9. CONTRACTOR SHALL PROVIDE GREASE DUCT LEAKAGE SMOKE TEST IN ACCORDANCE TO THE 2022 NYC MECHANICAL CODE, SECTION 506.3.2.5, PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF THE GREASE DUCT SYSTEM.

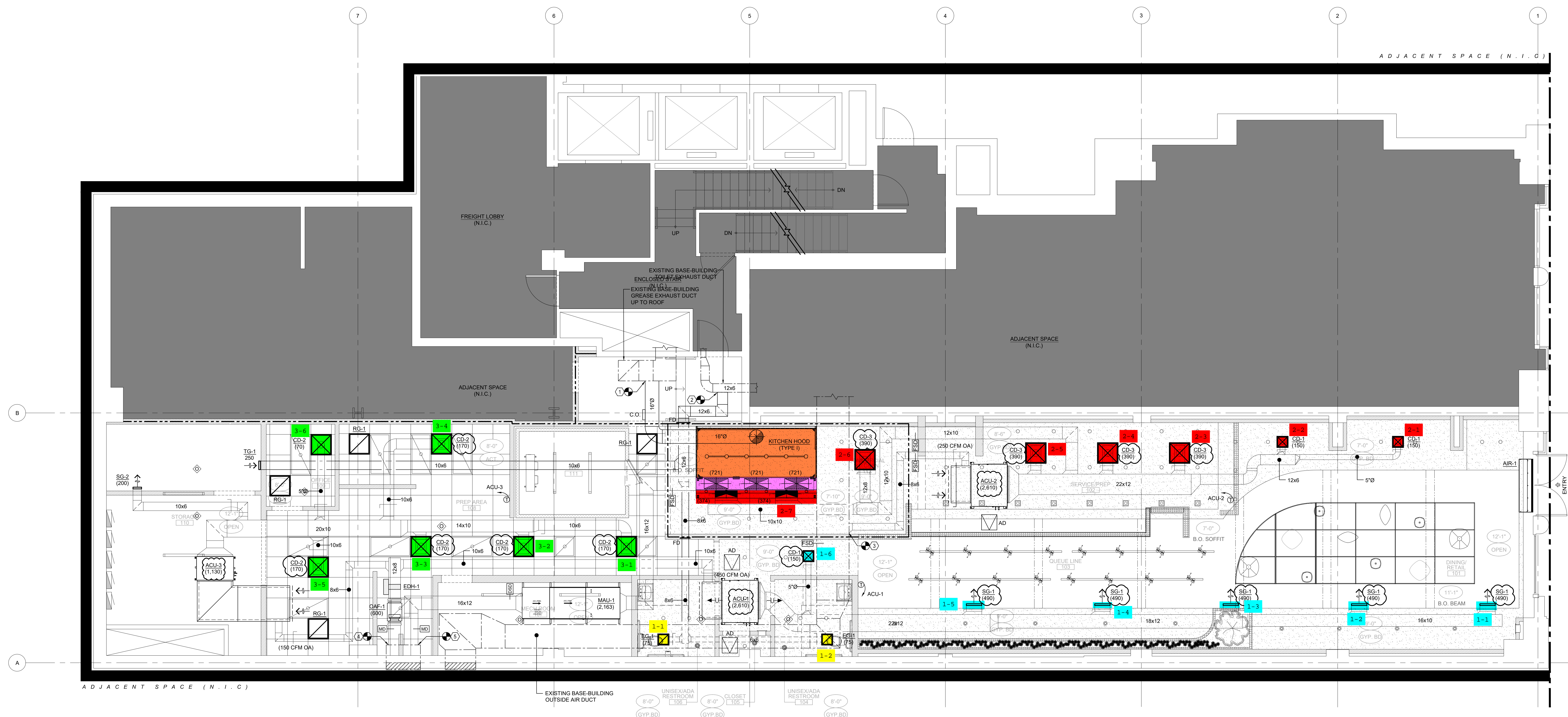
GENERAL MECHANICAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST BUILDING STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE BUILDING STANDARDS AND MEET WITH BUILDING MANAGEMENT IN ORDER TO BECOME TOTALLY FAMILIAR WITH THE BUILDING CONSTRUCTION RULES. THERE SHALL BE NO DEVIATION FROM THE BUILDING STANDARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE BUILDING MANAGEMENT.
2. ALL DUCTWORK SHALL BE INSTALLED AT MAXIMUM HEIGHTS ALLOWABLE OR AS REQUIRED TO CLEAR NEW CEILING. DUCTWORK SHALL BE OFFSET AS REQUIRED TO AVOID CONFLICTS EVEN IF NOT SPECIFICALLY INDICATED ON PLAN.
3. PROVIDE ALL REQUIRED BRANCH SUPPLY DUCTWORK TO SERVE NEW AIR OUTLETS IN LOCATIONS INDICATED. ALL AIR OUTLETS SUPPLY BRANCH CONNECTIONS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. PROVIDE COORD-OPERATED DAMPERS FOR ALL CEILING DIFFUSERS/GRILLES LOCATED IN INACCESSIBLE CEILINGS.
4. COORDINATE DIFFUSER, REGISTERS AND GRILLE LOCATIONS WITH ARCHITECTURAL CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS.
5. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
6. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AC UNITS AND FANS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
7. ALL SUPPLY AND RETURN DUCTWORK FOR ENTIRE LENGTH DOWNSTREAM OF AC UNIT SHALL BE PROVIDED WITH MIN. 1" THICK INTERNAL ACoustICAL LINING. PROVIDE EXTERNAL WRAP INSULATION AS REQUIRED TO ACHIEVE MIN. OVERALL R-VALUE AS REQUIRED PER NYCDEC (REFER TO DUCTWORK INSULATION THICKNESS SCHEDULE ON DWG. M-300). ALL DUCTED RETURN AIR OPENINGS TO AC UNITS SHALL BE FULL SIZE.
8. MOUNT ALL DUCT-MOUNTED SUPPLY REGISTERS AT SAME ELEVATION. ELEVATIONS SHALL BE INDICATED ON THE SHEETMETAL SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER.
9. EXACT LOCATIONS OF ALL THERMOSTATS SHALL BE AS PER ARCHITECT/ENGINEER. REFER TO ARCHITECTURAL DWGS FOR THERMOSTAT MOUNTING HEIGHT. MECHANICAL CONTRACTOR SHALL SUBMIT THERMOSTAT LOCATIONS FOR REVIEW PRIOR TO INSTALLATION.
10. PROVIDE 1" UNDERCUT FOR ALL BATHROOM DOORS.
11. ALL OPEN-ENDED DUCTWORK SHALL BE PROVIDED WITH WIRE-MESH SCREEN.
12. CONTRACTOR SHALL INSTALL ALL HVAC EQUIPMENT AS REQUIRED TO ALLOW FOR PROPER SERVICE ACCESS. CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING HVAC EQUIPMENT AND DEVICES.
13. MECHANICAL CONTRACTOR TO BALANCE SCOPE OF WORK TO NEW AIR QUANTITIES INDICATED UPON PROJECT COMPLETION. BALANCING TO BE PERFORMED BY BASE BUILDING APPROVED CONTRACTOR.

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R0	SD SUBMISSION SET	08-12-2024
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R3	ADDENDUM 1	12-17-2024
	ISSUED FOR CONSTRUCTION	04-25-2025



MECHANICAL ROOF PARTIAL PLAN - DUCTWORK
M101 1/4" = 1'-0"



FIRST FLOOR MECHANICAL PLAN - DUCTWORK
M101 1/4" = 1'-0"

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PROJECT NO: 23195 DATE: 02/26/2024
PARTNER IN CHARGE: JS PROJECT MANAGER: IS DRAWN BY: HN/DT

SHEET CONTENTS: MECHANICAL FIRST FLOOR & ROOF PARTIAL DUCTWORK PLAN

SHEET: M-101.00 PAGE NO: 02 of 16

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KEYNOTES: (K) KEYNOTE TAG SYMBOL

1. PROVIDE 1-1/4" CONDENSATE DRAIN PIPE TO NEAREST INDIRECT DRAIN LOCATION.
2. PROVIDE RTU METER BY CONCON MODEL SYSTEM 10 W/ TEMPERATURE SENSORS. PROVIDE REMOTE READOUT TO LANDSCAPE METERS SYSTEM. COORDINATE ALL WORK WITH BUILDING MANAGEMENT.
3. PROVIDE NEW 2" CONNECTION TO EXISTING VALVED BASE-BUILDING CONDENSER WATER TAPS. COORDINATE EXACT LOCATION IN FIELD. CONTRACTOR TO CONFIRM CONDITION OF EXISTING ISOLATION CONTROL VALVES. SUBMIT BREAKOUT PRICE TO REPLACE ISOLATION VALVES IN KIND.

GENERAL MECHANICAL NOTES:

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2. ALL REFRIGERANT PIPING ROUTING AND SIZING SHALL BE PROVIDED AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL DWG. M-401 FOR MANUFACTURER PIPING & WIRING SCHEMATICS.
3. ALL AC UNITS SHALL BE PROVIDED WITH A STAINLESS STEEL AUXILIARY DRIP PAN BELOW EACH UNIT. CONDENSATE LIFTS/PUMPS, AS REQUIRED IF GRAVITY DRAINAGE IS NOT ACHIEVABLE, AND LEAK DETECTION FOR UNIT SHUTDOWN.

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SHEET CONTENTS:
MECHANICAL FIRST FLOOR PIPING PLAN

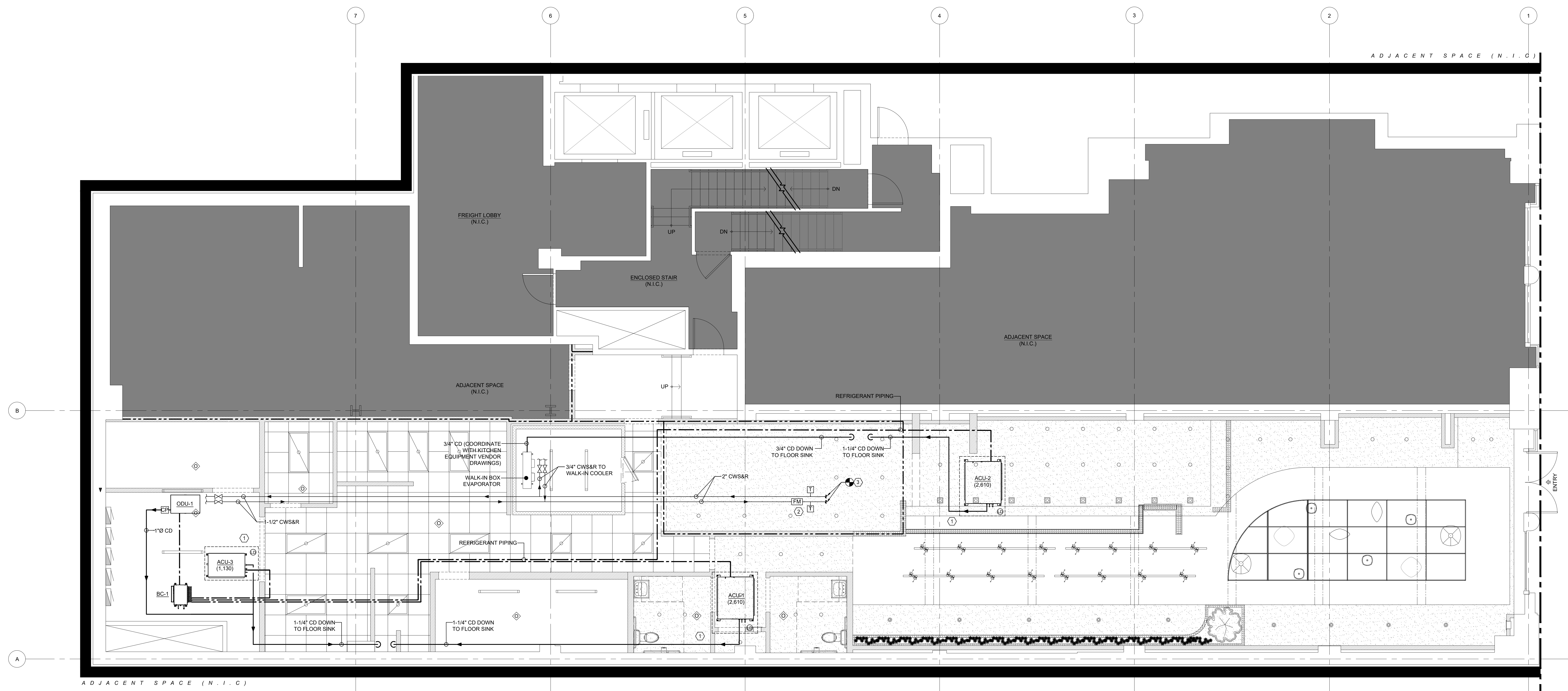
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8TH AVENUE

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FIRST FLOOR MECHANICAL PLAN - PIPING
1 M201 1/4" = 1'-0"

INDOOR VRF FAN COIL UNIT SCHEDULE (FURNISHED BY LANDLORD)																									
TAG	SERVICE	NOMINAL COOLING CAPACITY (BTUH)	NOMINAL HEATING CAPACITY (BTUH)	SUPPLY AIRFLOW (CFM)	MAX ESP (IN H ₂ O)	COOLING DATA				HEATING DATA				ELECTRICAL DATA				WEIGHT (LBS)	DIMENSIONS (L X W X H)	MANUFACTURER / MODEL	NOTES				
						EAT		LAT		EAT		LAT		VOLTAGE		PHASE						MCA (AMPS)		MDP (AMPS)	
						DB (F)	WB (F)	DB (F)	DB (F)	DB (F)	DB (F)	DB (F)	DB (F)	VOLTAGE	PHASE	MCA (AMPS)	MDP (AMPS)					VOLTAGE	PHASE	FLA (AMPS)	WEIGHT
ACU-1	DINING / RETAIL	72,000	81,000	2,610	1.0	80.0	67.0	-	70.0	-	208	1	6.45	15	245	36-11/16" x 43-5/16" x 18-1/2"	DAKIN / FMQ227AVJU	-							
ACU-2	SERVICE / PREP	72,000	81,000	2,610	1.0	80.0	67.0	-	70.0	-	208	1	6.45	15	245	36-11/16" x 43-5/16" x 18-1/2"	DAKIN / FMQ227AVJU	-							
ACU-3	PREP AREA / OFFICE	36,000	40,000	1,300	0.6	80.0	67.0	-	70.0	-	208	1	3.1	15	101	35-1/8" x 31-1/2" x 9-11/16"	DAKIN / FMQ267BVJU	-							

NOTES:
 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80°F (DB)W, OUTDOOR OF 97°F (DB).
 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 47°F (WB).
 3. ALL REFRIGERANT PIPING SIZES AND ROUTING SHALL BE PROVIDED AS PER MANUFACTURER'S RECOMMENDATIONS.
 4. SCHEDULED AIR FLOW INFORMATION IS HIGH SPEED.
 5. PROVIDE EACH UNIT WITH INTERNAL DRAIN PAN, LIQUID DETECTOR AND INTEGRAL CONDENSATE LIFTS.
 6. PROVIDE EACH UNIT WITH TOGGLE DISCONNECT SWITCH.
 7. FURNISH ALL CEILING HUNG UNITS WITH A 30N VIBRATION ISOLATOR WITH 1" STATIC DEFLECTION.
 8. PROVIDE FIELD-ASSEMBLED FILTER PACK WITH MIN. 2" THICK MERV-13 FILTER.

FAN SCHEDULE													
TAG	LOCATION	AREA SERVED	CFM	ESP (IN. W.C.)	FAN RPM	HP	DRIVE TYPE	ELECTRICAL DATA			WEIGHT	MANUFACTURER / MODEL	NOTES
								VOLTAGE	PHASE	FLA (AMPS)			
DAF-1	SEE PLANS	VENTILATION	600	0.4	1,128	14	DIRECT	115	1	2.9	52	GREENHECK / SQ-100-VG	CONTROL VIA TIMECLOCK

ELECTRIC DUCT HEATER SCHEDULE												
TAG	LOCATION	HEATER DIMENSION (L X W)	CFM	AIR TEMP RISE (°F)	STAGE	KW CAPACITY	ELECTRICAL DATA			MANUFACTURER / MODEL	NOTES	
							VOLTAGE	PHASE	INDEECO / QUA			
EDH-1	SEE PLANS	12"x6"	600	50	SCR	10	208	1	INDEECO / QUA	OPEN COIL, SLIP-IN	-	

WATER-COOLED VRF CONDENSING UNIT SCHEDULE (FURNISHED BY LANDLORD)																										
TAG	LOCATION	SERVICE	OPERATING WATER TEMP RANGE (°F) DB	COMPRESSOR			COOLING DATA				HEATING DATA				ELECTRICAL DATA				WEIGHT (LBS)	DIMENSIONS (L X W X H)	APPROX WEIGHTS (LBS)	MANUFACTURER / MODEL	NOTES			
				QTY	KW INPUT	TYPE	TOTAL CAP (BTUH)	GPM	ENT (°F)	LWT (°F)	P/D (PSI)	TOTAL CAP (BTUH)	GPM	ENT (°F)	LWT (°F)	P/D (PSI)	VOLTAZ	MCA						MOCP	REFRIG TYPE	
				CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA						CONDENSER WATER DATA	CONDENSER WATER DATA	CONDENSER WATER DATA
ODU-1	SEE PLANS	ACU-1 THRU ACU-3	50.0 - 95.0	1	8.81	INVERTER SCROLL	144,000	31.7	68.0	81.4	-	162,000	31.7	86.0	75.0	-	208/360	44.6	50.0	12.6/21.9	5.3	R410A	30-1/8" x 22-1/8" x 38-9/16"	423	DAKIN / RVEQ144TATA-HR	-

BRANCH CIRCUIT CONTROLLER BOX (FURNISHED BY LANDLORD)									
TAG	UNIT SERVICE	CONNECTED CAPACITY (BTUH)	LOCATION	BRANCH CONNECTIONS/PORTS	VPHASE/2	MCA	MOCP	MANUFACTURER/MODEL	REMARKS
BC-1	ACU-1 THRU ACU-3	216,000	STORAGE ROOM	6	208/180	5.6	15	DAKIN / BPS262TU	-

ELECTRIC HEATED AIR CURTAIN SCHEDULE														
TAG	LOCATION	AIR PERFORMANCE DATA				ELECTRICAL DATA								
		NOZZLE WIDTH(IN)	MAX. OUTLET VEL(FPM)	CFM	OUTLET VELOCITY UNIFORMITY	AIR TEMP RISE (°F)	AVG. OUTLET VEL (FPM)	MAX ELECTRIC CAPACITY (KW)	VPHZ	MOTOR(S) QTY @ HP	HEATER OUTPUT (MBH)	WEIGHT (LBS)	MANUFACTURER / MODEL	NOTES
AIR-1	SEE PLANS	66.0	4,828	1,947	83%	27	1,027	14.0	208/360	1 @ 1/2	47.8	138	BERNER / ARD10-100E	-

NOTES:
 1. CABINET COLOR & FINISH BY ARCHITECT.
 2. PROVIDE INTEL SWITCH PROGRAMMABLE DIGITAL CONTROLLER.
 3. PROVIDE MAGNETIC DOOR SWITCH W/ ADJUSTABLE TIME DELAY.

AIR OUTLETS SCHEDULE							
TAG	DESCRIPTION	NECK SIZE	FRAME SIZE	CFM RANGE	MAX NC	MANUFACTURER / MODEL	NOTES
CD-1	CEILING SUPPLY DIFFUSER	5"Ø	12"x12"	0-150	<20	TITUS / TMS	3-CONE DIFFUSER
CD-2	CEILING SUPPLY DIFFUSER	6"Ø	24"x24"	0-250	<20	TITUS / TMS	3-CONE DIFFUSER
CD-3	CEILING SUPPLY DIFFUSER	8"Ø	24"x24"	251-450	26	TITUS / TMS	3-CONE DIFFUSER
EG-1	CEILING EXHAUST GRILLE	-	12"x12"	0-150	<20	TITUS / 360RL	3/4" BLADE SPACING, 35 DEG. DEFLECTION
RG-1	CEILING RETURN REGISTER	-	24"x24"	0-800	<20	TITUS / 360FL	3/4" BLADE SPACING, 35 DEG. DEFLECTION
SG-1	SIDEWALL SUPPLY REGISTER	18"x6"	20"x6"	0-450	24	TITUS / 300FL	3/4" BLADE SPACING, DOUBLE DEFLECTION
SG-2	SIDEWALL SUPPLY REGISTER	10"x6"	12"x6"	0-200	23	TITUS / 300FL	3/4" BLADE SPACING, DOUBLE DEFLECTION
TG-1	SIDEWALL TRANSFER GRILLE	10"x6"	12"x6"	0-250	25	TITUS / 301RL	3/4" BLADE SPACING, 0 DEG. DEFLECTION

NOTES:
 1. DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION BEING INSTALLED IN.
 2. DIFFUSERS THAT SERVE AREAS WITHOUT HUNG CEILINGS SHALL BE SUITABLE FOR DUCTWORK MOUNTING.
 3. PROVIDE CABLE OPERATED DAMPERS FOR DIFFUSERS IN INACCESSIBLE CEILINGS.

SEQUENCE OF OPERATIONS
KITCHEN HOOD SYSTEM
A) THE KITCHEN EXHAUST HOOD SYSTEM SHALL BE FURNISHED WITH A KITCHEN HOOD CONTROL PANEL.
ATC CONTROLS CONTRACTOR SHALL INTERLOCK HOOD CONTROLS WITH KITCHEN EXHAUST FAN AND MAKE-UP AIR UNIT.
B) THE HOOD CONTROL PANEL SHALL ACTIVATE THE EXHAUST FAN SIZE 1 AND THE MAKEUP AIR UNIT SMALL AUTOMATICALLY VIA HEAT SENSOR OR VIA A TOGGLE SWITCH ON THE CONTROL PANEL. THE KITCHEN EXHAUST FAN SHALL START WHENEVER THE KITCHEN EXHAUST SYSTEM PANEL STATUS IS ON.
C) A CURRENT SWITCH SHALL MONITOR THE FAN STATUS, AND IF THE FAN STATUS DOES NOT MATCH THE COMMAND OTHER THAN IMMEDIATELY FOLLOWING A START COMMAND, THEN A FAN FAIL ALARM SHALL BE ANNUNCIATE AT THE HOOD CONTROL PANEL.
D) A DISCHARGE AIR SENSOR SHALL CYCLE THE GAS HEAT VALVE ON SMALL TO MAINTAIN A DISCHARGE TEMPERATURE OF 58 DEGREES F (ADJUSTABLE). THE SET POINT SHALL BE RESET BASED ON SPACE TEMPERATURE.
E) ALL ASSOCIATED DAMPERS SHALL BE HARDWIRED INTERLOCKED TO OPEN AND CLOSE WITH FAN OPERATION.
F) THE HOOD CONTROL SYSTEM SHALL BE CONNECTED TO THE ABUL SYSTEM FOR EMERGENCY SHUTDOWN.
G) IN EVENT OF A FIRE CONDITION, THE EXHAUST SHALL OPERATE CONTINUOUSLY UNTIL MANUALLY SHUT DOWN AND SMALL SHALL SHUT DOWN UPON DETECTING SMOKE VIA DUCT-MOUNTED SMOKE DETECTOR, ASSOCIATED OUTSIDE AIR DAMPER SHALL CLOSE.
AIR CONDITIONING UNITS: ACU-1 THRU ACU-3
A) THE AC UNIT SHALL BE FURNISHED WITH FACTORY DIGITAL CONTROLS FOR A COMPLETE STAND-ALONE OPERATION. AC UNITS SHALL EACH MAINTAIN SPACE SETPOINT TEMPERATURE OF 72 DEGREES F (ADJUSTABLE) AS DICTATED BY THE MANUFACTURER PROVIDED 7 DAY PROGRAMMABLE THERMOSTAT.
OUTSIDE AIR FAN: OAF-1 ELECTRIC DUCT HEATER
A) OUTSIDE AIR FAN (OAF-1) FAN SHALL RUN CONTINUOUSLY DURING BUSINESS HOURS (ADJUSTABLE). INTERLOCK FAN AND HEATER OPERATION ONCE THE OUTSIDE AIR FAN IS ON. EDH-1 SHALL OPERATE TO MAINTAIN 70 DEGREE F SPACE TEMPERATURE (ADJ.)

DUCTWORK INSULATION							
DUCTWORK LOCATION	FLAME SPREAD RATING	SMOKE DEVELOPED INDEX RATING	INSULATION MEAN TEMPERATURE RATING	MINIMUM INSTALLED INSULATION VALUE			
CONDITIONED SPACE	25	50	75°F	R-6			
UNCONDITIONED SPACE	25	50	75°F	R-8			

DUCTWORK INSULATION NOTES:
 1. REFER TO MECHANICAL SPECIFICATION DRAWINGS FOR ADDITIONAL INFORMATION.
 2. ALL MINIMUM REQUIRED DUCTWORK INSULATION VALUES SHALL COMPLY WITH THE 2020 NYC ENERGY CONSERVATION CODE ESTABLISHED VALUES.

PIPE MATERIAL SCHEDULE						
SERVICE	SIZE	MATERIAL	HEIGHT	STANDARD	JOINT TYPE	
COLD CONDENSATE DRAINS	2" & BELOW	HARD COPPER	TYPE 'L'	ASTM A88	BRAZE OR SILVER SOLDER	
REFRIGERANT	ALL	HARD COPPER	TYPE ACR REFRIGERANT OR TYPE 'L'	ASTM B200 OR ASTM B-88	BRAZE OR SOLDER	
CONDENSER WATER	2" & BELOW	HARD COPPER	TYPE 'K'	ASTM B88	BRAZE OR SILVER SOLDER	
	6" TO 10"	BLACK STEEL	SCHEDULE 40	ASTM A106 OR A106 SEAMLESS GRADE B	WELDED	

CONDENSATE PUMP SCHEDULE										
DESIGNATION	SERVICE	TANK CAPACITY	GPH	TDH (FT)	RPM	BHP	MOTOR HP	ELECTRICAL VOLTAZ	WEIGHT (LBS)	MANUFACTURER / MODEL
CP	SEE PLANS	1 QUART	38	12	3000	-	1/10	120/180	5	HARTELL KL-1DG-115

PUMP SCHEDULE NOTES (TYPICAL FOR EACH PUMP):
 1. PROVIDE AUXILIARY SAFETY SWITCH.
 2. PROVIDE 1" INLET SIZE AND BUILT IN CHECK VALVE.

MINIMUM PIPING INSULATION THICKNESS							
FLUID TEMPERATURE RANGE	CONDUCTIVITY RANGE (K-VALUE)	INSULATION MEAN TEMPERATURE RATING	NOMINAL PIPE DIAMETER (IN INCHES)				
			< 1	1 TO < 1.5	1.5 TO < 4	4 TO < 8	8+
			INSULATION THICKNESS REQUIRED (IN INCHES)				
ABOVE 350°F	0.32 - 0.34	250°F	4.5	5.0	5.0	5.0	5.0
251°F - 350°F	0.29 - 0.32	200°F	3.0	4.0	4.5	4.5	4.5
201°F - 250°F	0.27 - 0.30	150°F	2.5	2.5	2.5	3.0	3.0
141°F - 200°F	0.25 - 0.29	125°F	1.5	1.5	2.0	2.0	2.0
105°F - 140°F	0.21 - 0.28	100°F	1.0	1.0	1.5	1.5	1.5
40°F - 60°F	0.21 - 0.27	75°F	0.5	0.5	1.0	1.0	1.0
< 40°F	0.20 - 0.26	75°F	0.5	1.0	1.0	1.0	1.5

PIPE INSULATION NOTES:
 1. REFER TO MECHANICAL SPECIFICATION DRAWINGS FOR ADDITIONAL INFORMATION.
 2. ALL MINIMUM REQUIRED PIPING INSULATION VALUES SHALL COMPLY WITH THE 2020 NYC ENERGY CONSERVATION CODE ESTABLISHED VALUES.

AIR BALANCE SCHEDULE					
UNIT	OUTSIDE AIR TO UNITS	RETURN AIR TO UNITS	SUPPLY AIR FROM UNITS	EQUALIST AIR OUT OF BUILDING	BUILDING PRESSURE
ACU-1	450	2540	2540	-	+450
ACU-2	260	2540	2540	-	+260
ACU-3	150	1270	1270	-	+150
MAU-1	2163	-	-	-	+2163
KEP-1	-	-	-	2606	-2606
TOILET EXHAUST	-	-	-	180	-180
TOTAL					+267

ISSUE DATE	NO. / REV	REVISION	DATE
08-12-2024	SD	SUBMISSION SET	08-12-2024
09-10-2024	RT	DOCLAND AND REVIEW SET	09-10-2024
11-22-2024	R2	ISSUED FOR BID	11-22-2024
12-17-2024	R3	ADDENDUM 1	12-17-2024
04-26-2025		ISSUED FOR CONSTRUCTION	04-26-2025

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 NEW YORK, NY 10019

PROJECT NO. | DATE:
23195 | **02/26/2024**
 PARTNER IN CHARGE | PROJECT MANAGER | DRAWN BY:
JS | **IS** | **HN/DT**

SHEET CONTENTS:
MECHANICAL SCHEDULES

SHEET | PAGE NO:
M-300.00 | **04 of 16**

ISSUED FOR CONSTRUCTION SET - 04/25/2025

JOB NUMBER:

FOR QUESTIONS, CALL THE
Maryland Mechanical
REGION 76
PHONE: (800) 988 - 0881
EMAIL: reg76@captiveaire.com

PATENT NUMBERS
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#7208396

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM						HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	MUA CFM	AC CFM	END TO END	ALONE
1	33	6024 ND-2-ACSP-F	CAPTIVEAIRE	11' 7"	600 DEG	I	HEAVY	225	2606			4'	16'	2606	1866	-0.968"	2163	748	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM	HOOD HANGING PIPING	WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	ELECTRICAL			
1	33	CAPTRATE SOLD FILTER	8	20"	16'	85% SEE FILTER SPEC	6	L55 SERIES E26	NO						YES	1024 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	33	FIELD WRAPPER 10.00' HIGH FRONT, LEFT, RIGHT. LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED. RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED. INSULATION FOR TOP OF HOOD. INSULATION FOR BACK OF HOOD. NYC CONSTRUCTION. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)		
							WIDTH	LENG	DIA
1	33	Front	141'	26'	6'	MUA	12"	28"	721
						MUA	12"	28"	721
						MUA	12"	28"	721
						AC	8"	24"	374
						AC	8"	24"	374

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)			WEIGHT
			FIRE SYSTEM	ELECTRICAL	SWITCHES	
1	WALL MNT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111 1 LIGHT 1 FAN	340.00 LBS

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE
HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT
____' - ____"
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

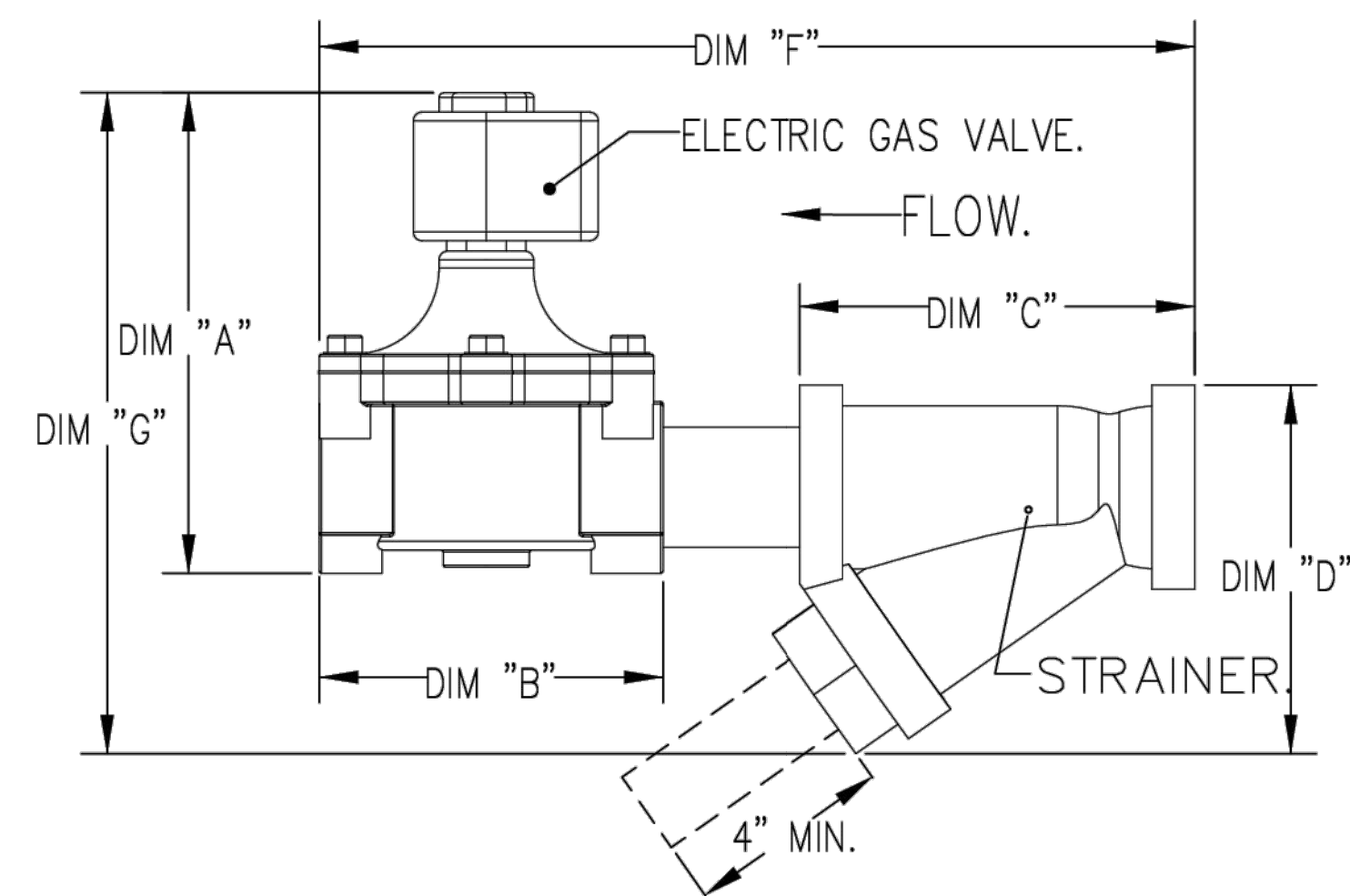
CUSTOMER APPROVAL TO MANUFACTURE:
APPROVED AS NOTED
APPROVED WITH NO EXCEPTION TAKEN
REVISE AND RESUBMIT
SIGNATURE _____ DATE _____
YOUR TITLE _____

TYPE	SIZE	VOLTAGE	GAS VALVE SIZING		GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS				
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "G"		MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT	
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (1.38 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL	8214280	4417R88	(SC)EJVA2

ELECTRIC GAS VALVES ONLY:
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION ABOVE HORIZONTAL.
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
2"VOC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS:
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING. SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS:
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP:
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP^{0.5}
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY:
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)^{0.5}



SPECIFICATION: CAPTRATE® GREASE-STOP® SOLD FILTER

THE CAPTRATE GREASE-STOP SOLD FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

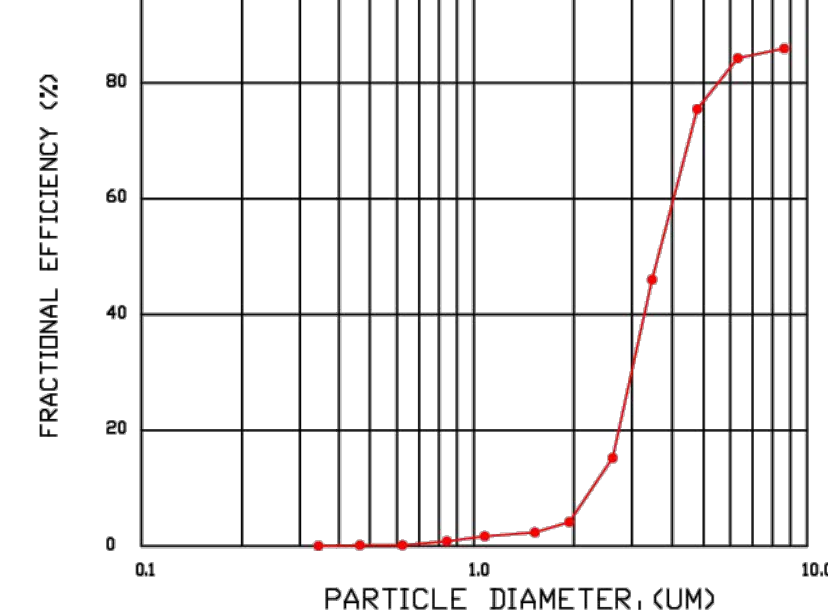
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

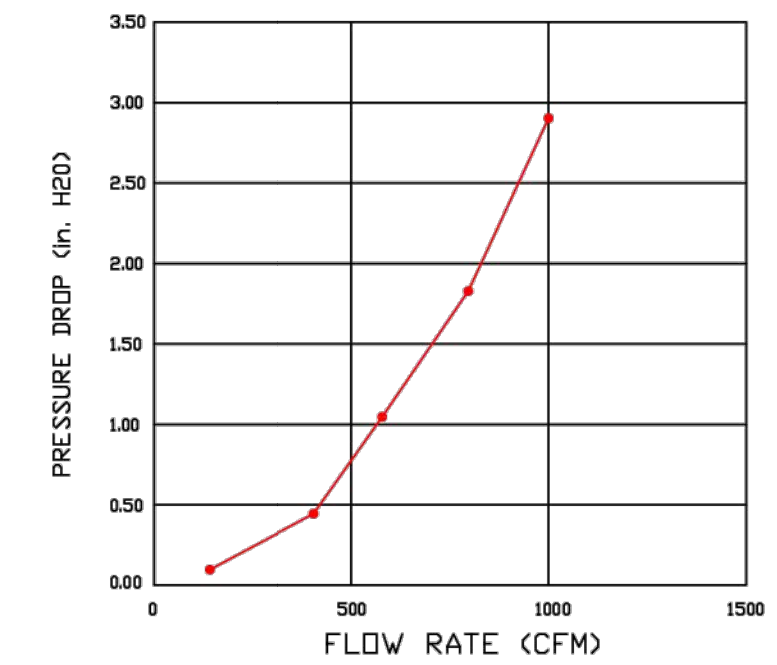
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLD WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



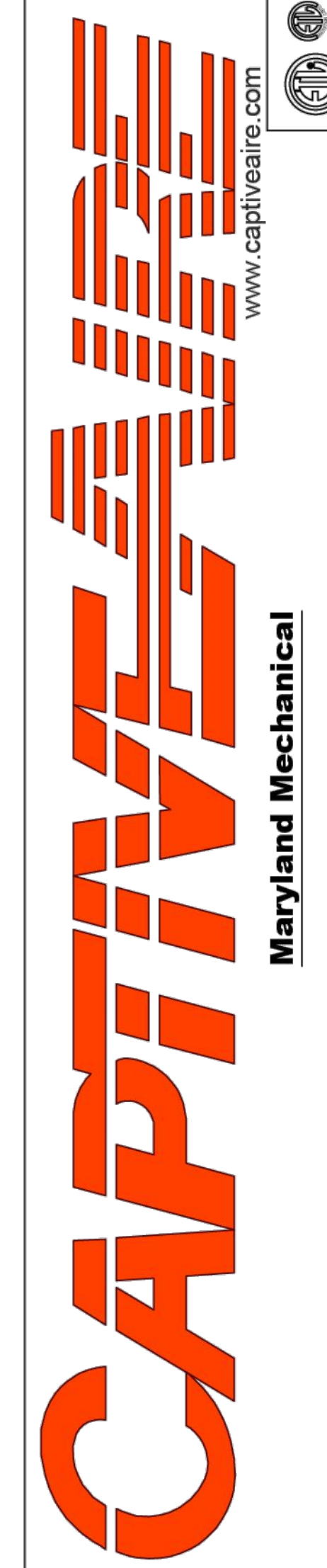
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-S649



REVISIONS

NO.	DESCRIPTION	DATE



Cava - New York, NY (Columbus)_RI
977 8th Avenue,
New York, NY, 10019

DATE: 12/17/2024
DWG.#: 7208396

DRAWN BY: ABS-76

SCALE: NTS

MASTER DRAWING

SHEET NO. 1

NO.	REVISION	DATE
R0	SD SUBMISSION SET	08-12-2024
R1	DOCLAND REVIEW SET	09-10-2024
R2	ISSUED FOR BID	11-22-2024
R3	ADDENDUM	12-17-2024
	ISSUED FOR CONSTRUCTION	04-26-2025

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TEL: (212) 680 0140, FAX: (212) 688 9548
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ADDRESS: 1000 8TH AVENUE (a.k.a. 4 COLUMBUS CIRCLE) NEW YORK, NY 10019

PROJECT NO: 23195 DATE: 02/26/2024
PARTNER IN CHARGE: JS PROJECT MANAGER: IS DRAWN BY: HN/DT

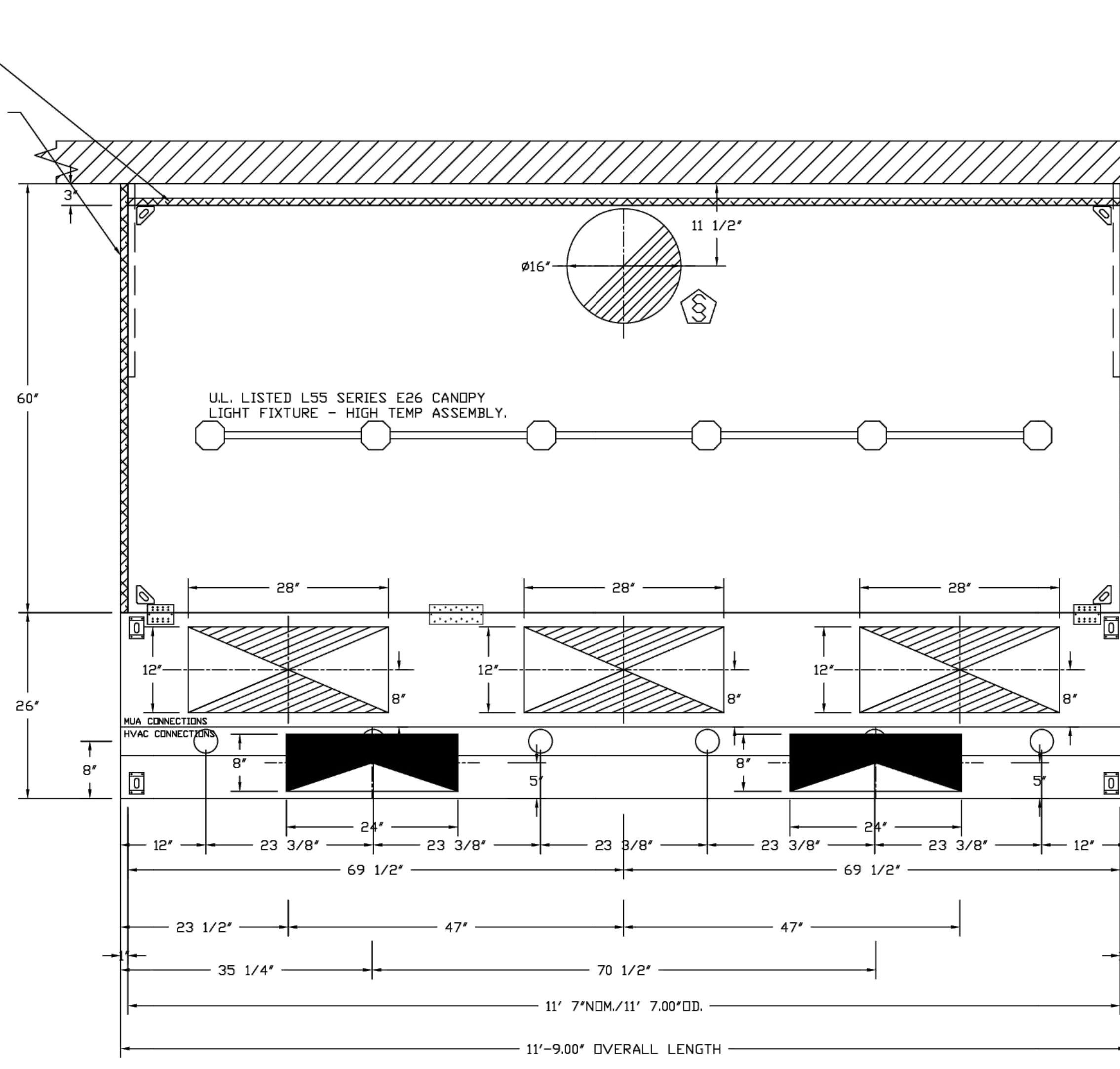
SHEET CONTENTS: MECHANICAL KITCHEN EQUIPMENT SHEET 1 OF 10

SHEET: M-500.00 PAGE NO: 07 of 16

ISSUED FOR CONSTRUCTION SET - 04/25/2025
JOB NUMBER:

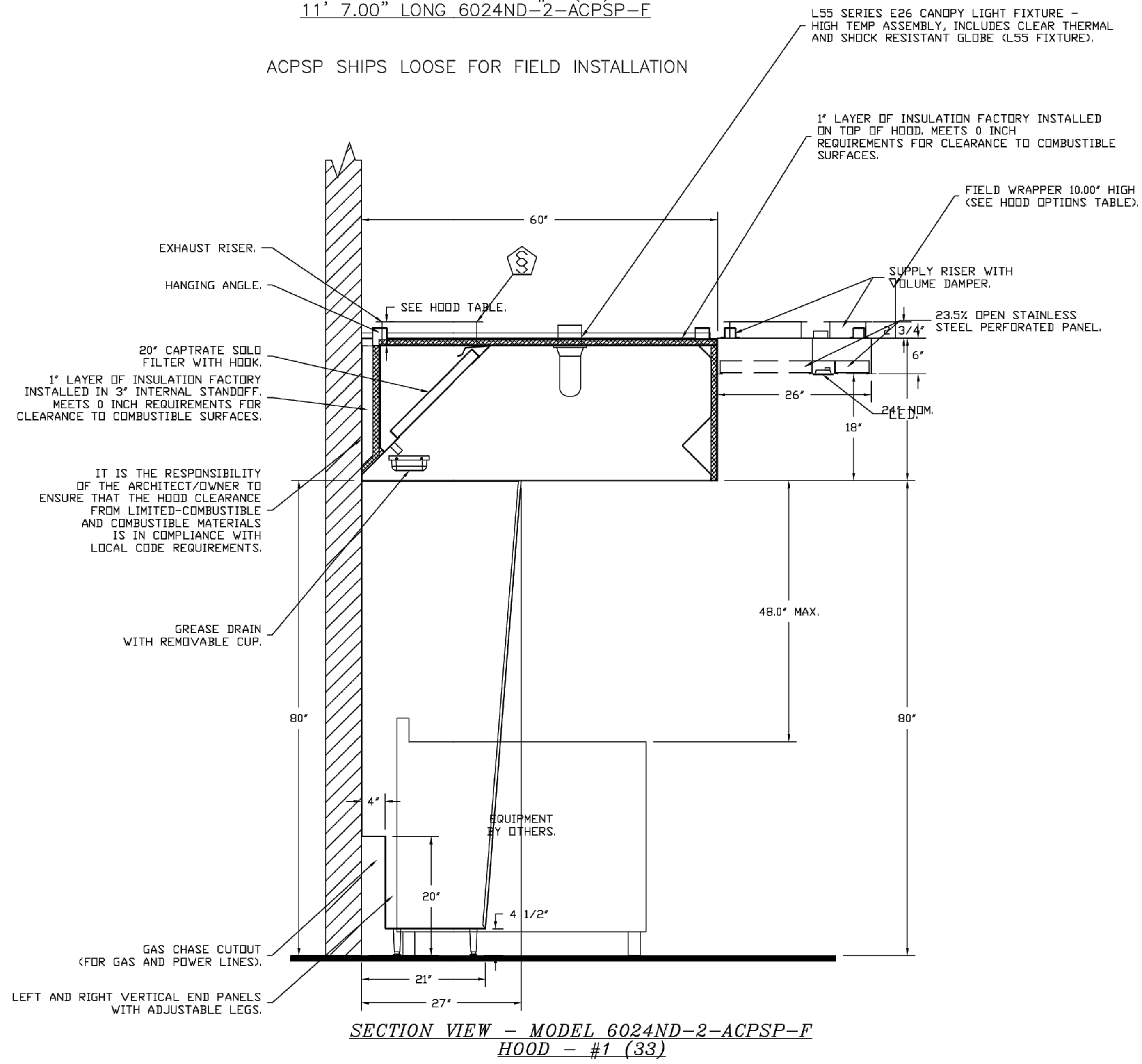
1" LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.

1" LAYER OF INSULATION FACTORY INSTALLED IN 100" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.

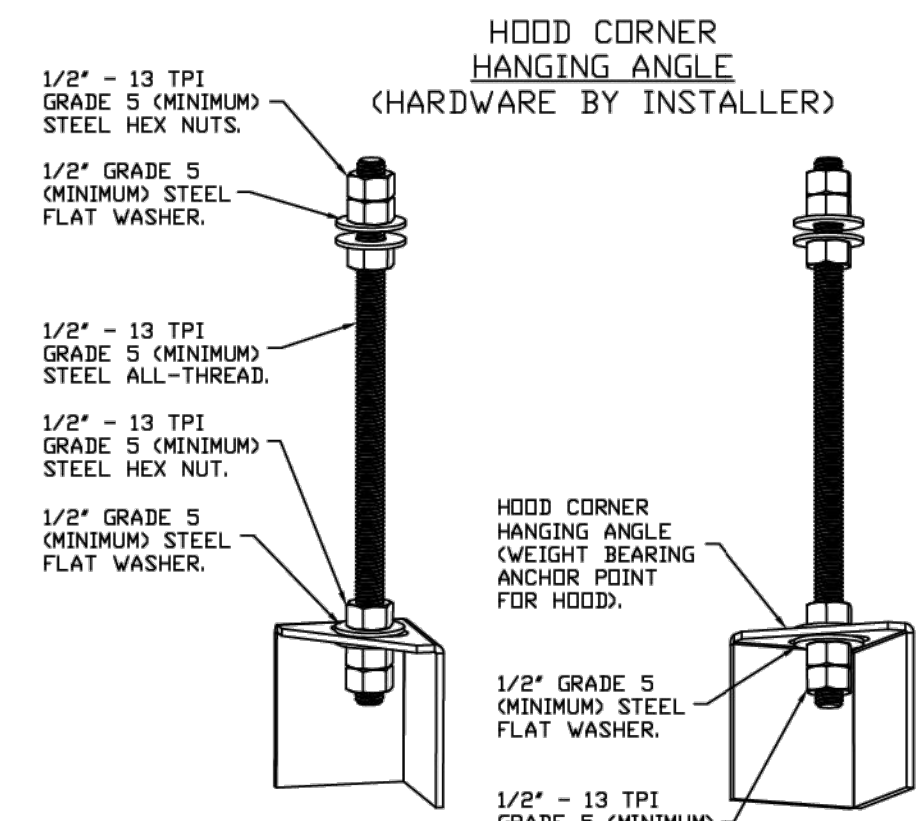


PLAN VIEW - HOOD #1 (33)
11' 7.00\"/>

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



SECTION VIEW - MODEL 6024ND-2-ACPSP-F
HOOD - #1 (33)



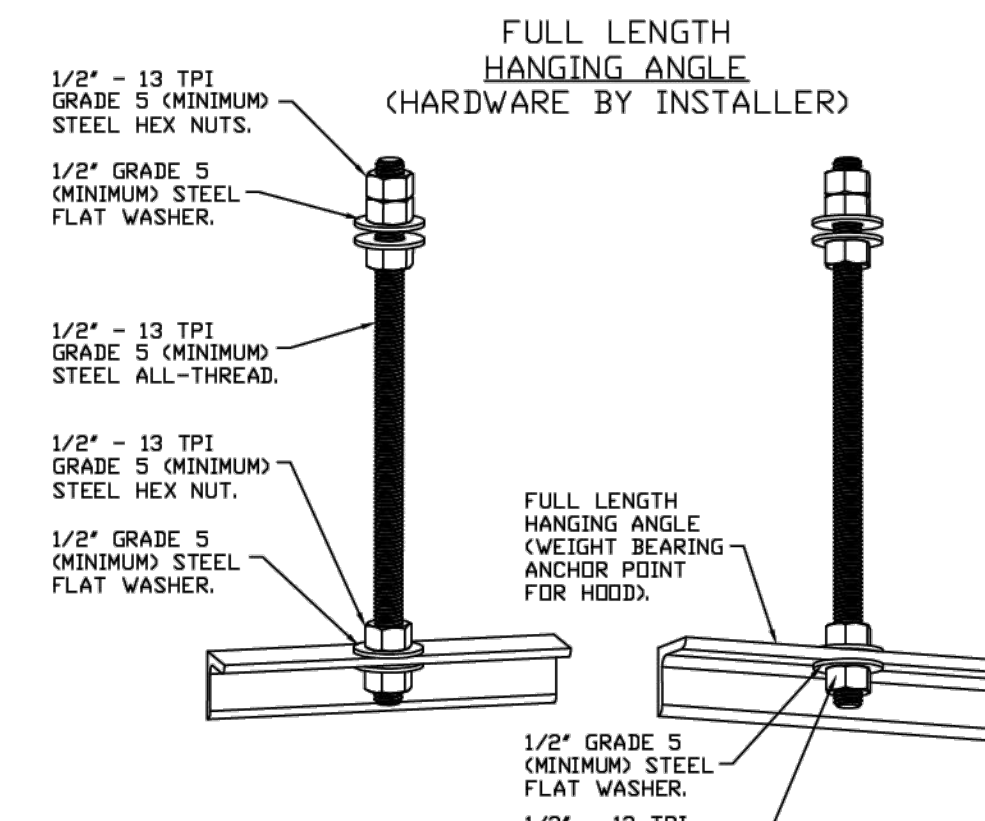
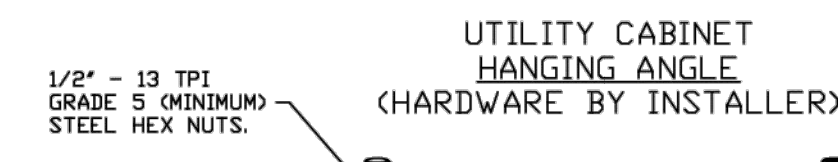
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>

WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

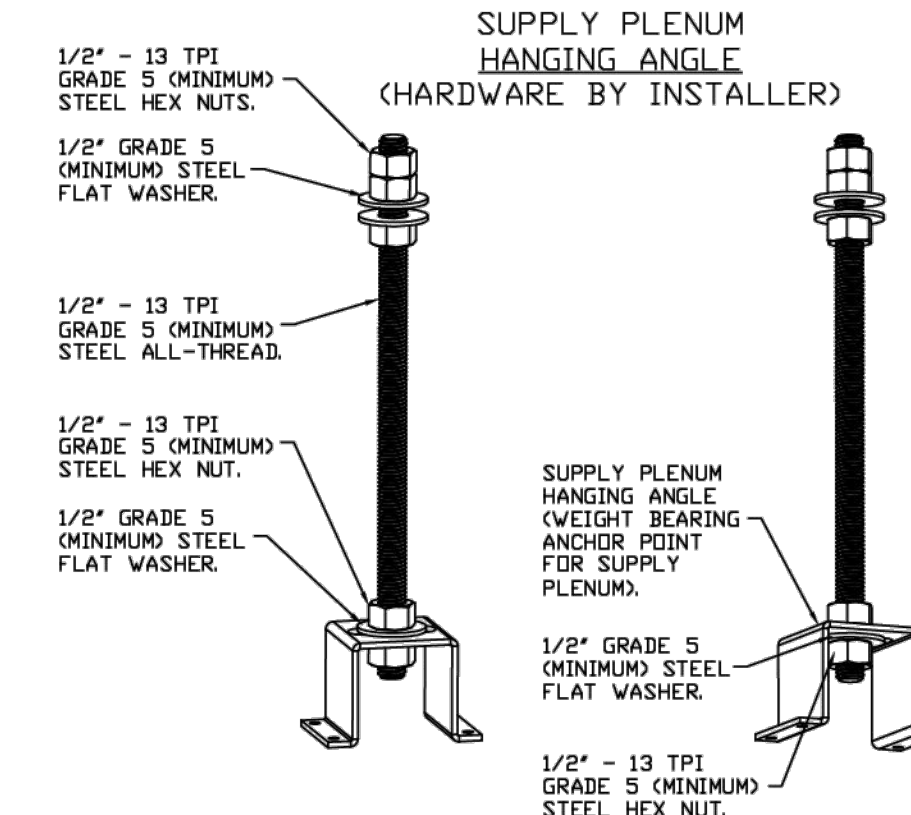
CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.

HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	0"

* 0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

Maryland Mechanical
www.captiveare.com
8120 Woodmont Avenue, Suite 720, Bethesda, MD, 20814 PHONE: (800) 988-0881 FAX: 9122279591 EMAIL: eng76@captiveare.com

Cava - New York, NY (Columbus)_RI
977 8th Avenue,
New York, NY, 10019

DATE: 12/17/2024
DWG.#: 7208396
DRAWN BY: ABS-76
SCALE: NTS
MASTER DRAWING
SHEET NO. 2

REVISION	DATE
R1	08-12-2024
R2	09-10-2024
R3	11-22-2024
R4	12-17-2024
R5	04-26-2025

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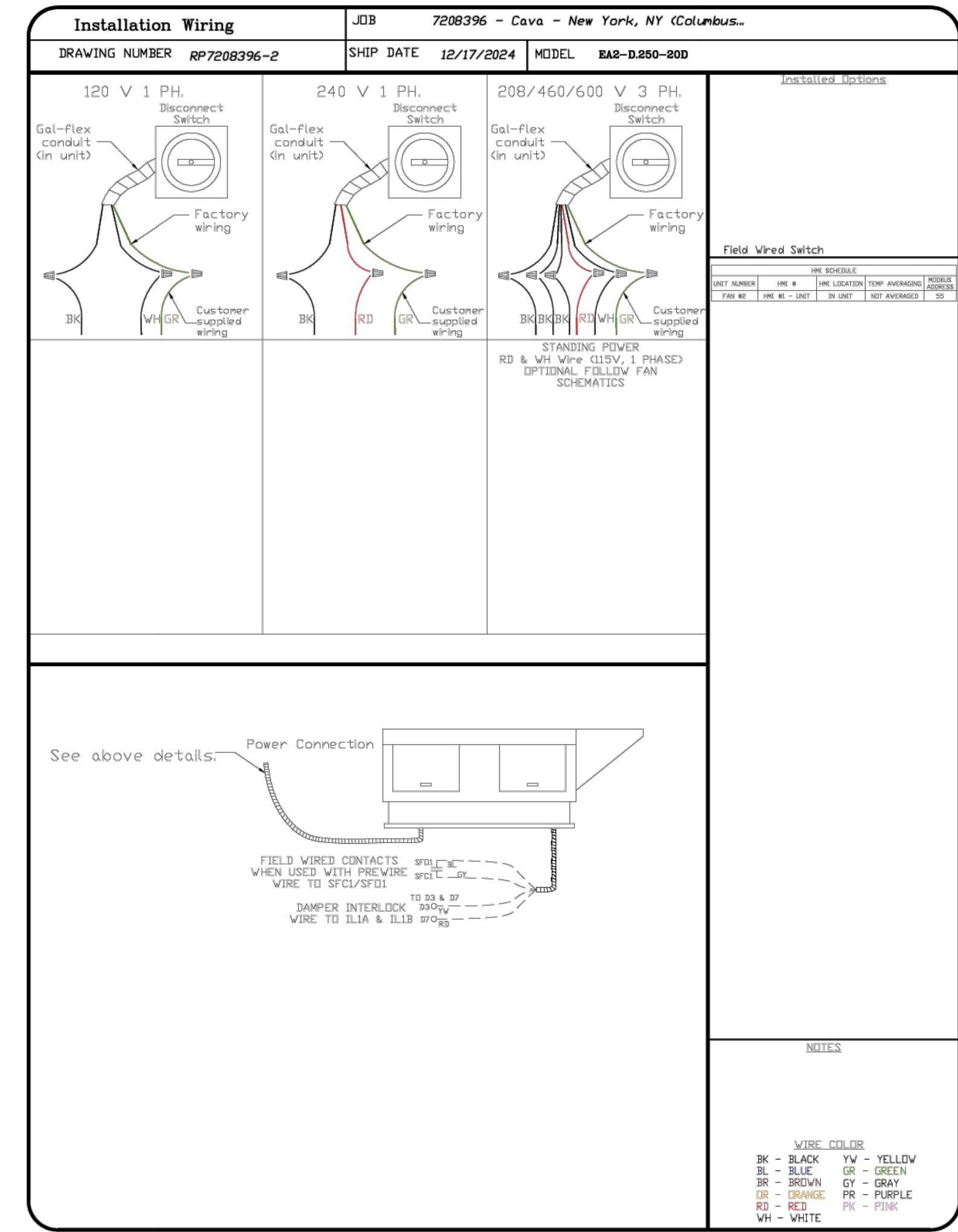
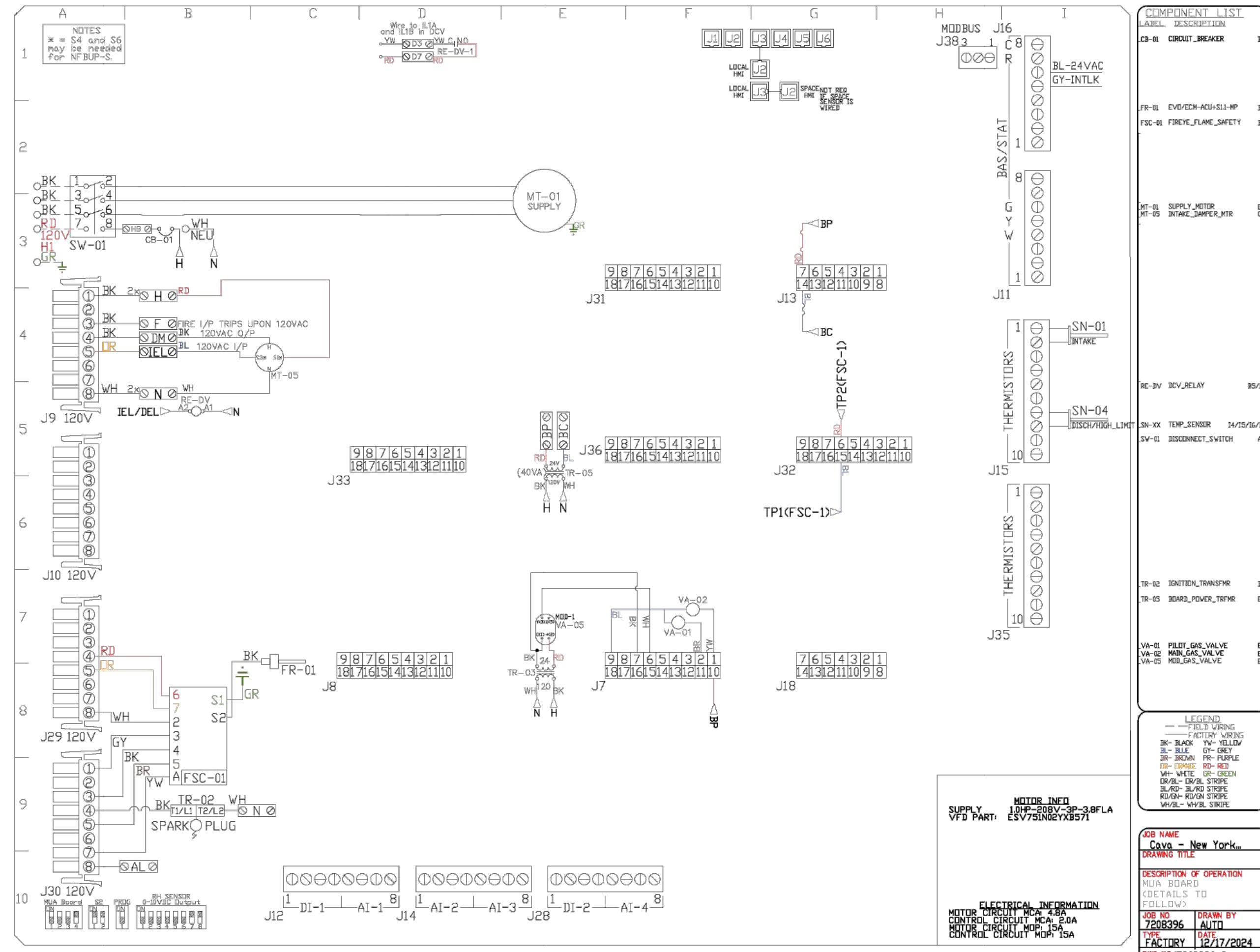
PROJECT NO: 23195 DATE: 02/26/2024
PARTNER IN CHARGE: JS PROJECT MANAGER: IS DRAWN BY: HN/DT

SHEET CONTENTS: MECHANICAL KITCHEN EQUIPMENT SHEET 2 OF 10

SHEET: M-501.00 PAGE NO: 08 of 16

ISSUED FOR CONSTRUCTION SET - 04/25/2025

Exhaust Fan Wiring		JOB: 7208396 - Cava - New York, NY (Columbus)												
DRAWING NUMBER: DW7208396-1	SHIP DATE: 02/17/2024	MODEL: 000000-00												
<table border="1"> <tr> <th>LINE</th> <th>DESCRIPTION</th> <th>LOCATION</th> </tr> <tr> <td>MT-01</td> <td>Fan Motor</td> <td>CKD</td> </tr> <tr> <td>SV-01</td> <td>Min disconnect switch</td> <td>CKD</td> </tr> </table>			LINE	DESCRIPTION	LOCATION	MT-01	Fan Motor	CKD	SV-01	Min disconnect switch	CKD			
LINE	DESCRIPTION	LOCATION												
MT-01	Fan Motor	CKD												
SV-01	Min disconnect switch	CKD												
<table border="1"> <tr> <th>WIRE COLOR</th> <th>WIRE TYPE</th> </tr> <tr> <td>BL - BLACK</td> <td>TY - YELLOW</td> </tr> <tr> <td>BU - BLUE</td> <td>OS - GREEN</td> </tr> <tr> <td>BR - BROWN</td> <td>CF - GRAY</td> </tr> <tr> <td>GR - GREEN</td> <td>FR - PURPLE</td> </tr> <tr> <td>WH - WHITE</td> <td></td> </tr> </table>			WIRE COLOR	WIRE TYPE	BL - BLACK	TY - YELLOW	BU - BLUE	OS - GREEN	BR - BROWN	CF - GRAY	GR - GREEN	FR - PURPLE	WH - WHITE	
WIRE COLOR	WIRE TYPE													
BL - BLACK	TY - YELLOW													
BU - BLUE	OS - GREEN													
BR - BROWN	CF - GRAY													
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WH - WHITE														



REVISIONS	
DESCRIPTION	DATE

CAPTIVE
 Maryland Mechanical
 8120 Woodmont Avenue, Suite 720, Bethesda, MD 20814
 PHONE: (800) 988-0881 FAX: (912) 272-9531 EMAIL: reg76@captiveinc.com

Cava - New York, NY (Columbus)_RI	
977 8th Avenue, New York, NY, 10019	
DATE: 12/17/2024	DWG.#: 7208396
DRAWN BY: ABS-76	SCALE: NTS
MASTER DRAWING	
SHEET NO. 7	

ISSUE DATE	REVISION	DATE
08-12-2024	R0	SD SUBMISSION SET
09-10-2024	R1	DOCKLANDS AND REVIEW SET
11-22-2024	R2	ISSUED FOR BID
12-17-2024	R3	ADDENDUM 1
04-26-2025		ISSUED FOR CONSTRUCTION

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 NEW YORK, NY 10019

PROJECT NO: 23195 DATE: 02/26/2024
 PARTNER IN CHARGE: JS PROJECT MANAGER: IS DRAWN BY: HN/DT

SHEET CONTENTS:
 MECHANICAL KITCHEN EQUIPMENT
 SHEET 7 OF 10

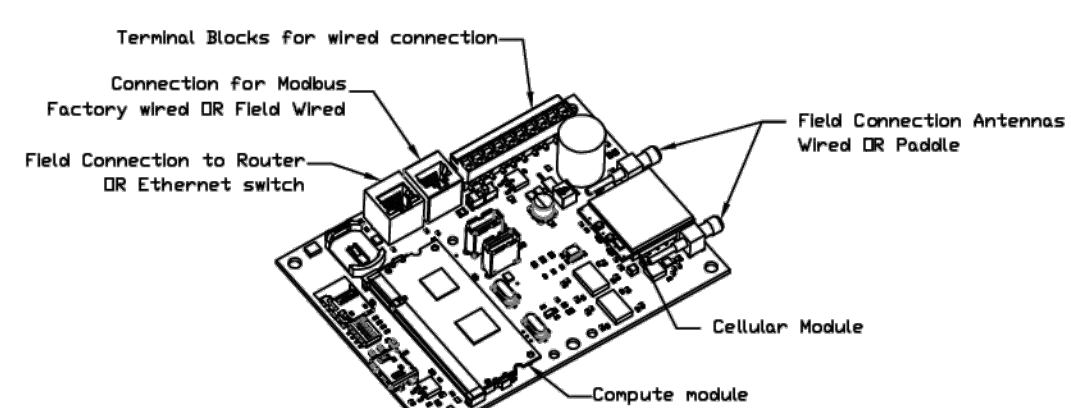
SHEET: M-506.00 PAGE NO: 13 of 16

ISSUED FOR CONSTRUCTION SET - 04/25/2025

new york design ARCHITECTS, LLP

ELECTRICAL PACKAGE - JOB#7208396

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLTS	FLA
1		DCV-1111	WALL UTILITY CABINET LEFT SIDE OF HOOD	FAN MOUNT LEFT SIDE OF HOOD	1 LIGHT 1 FAN	SMART CONTROLS DCV	KEF-1	EXHAUST	3	3000	208	9.5
				HOOD # 1			MAU-1	SUPPLY	3	1000	208	3.8

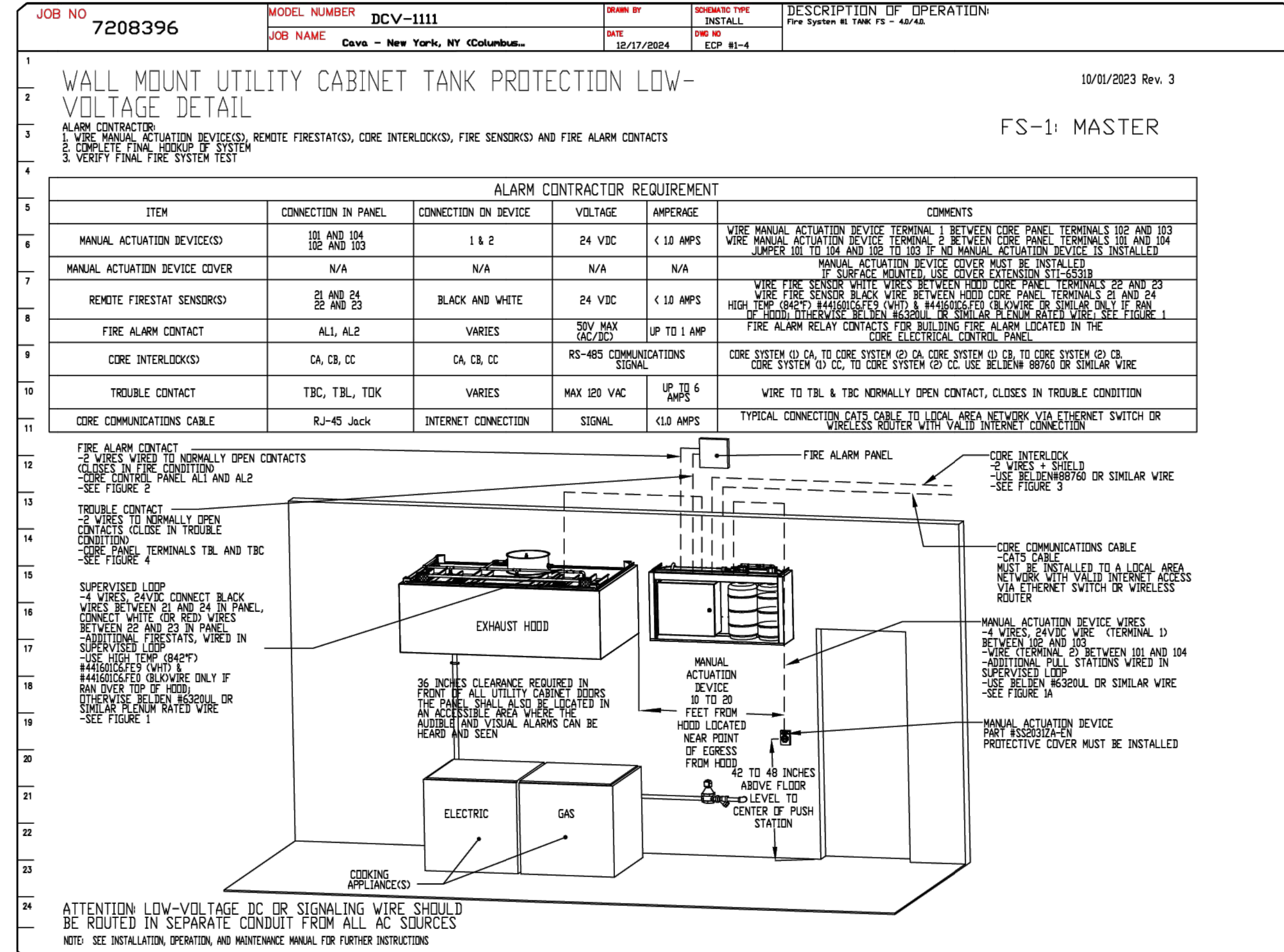
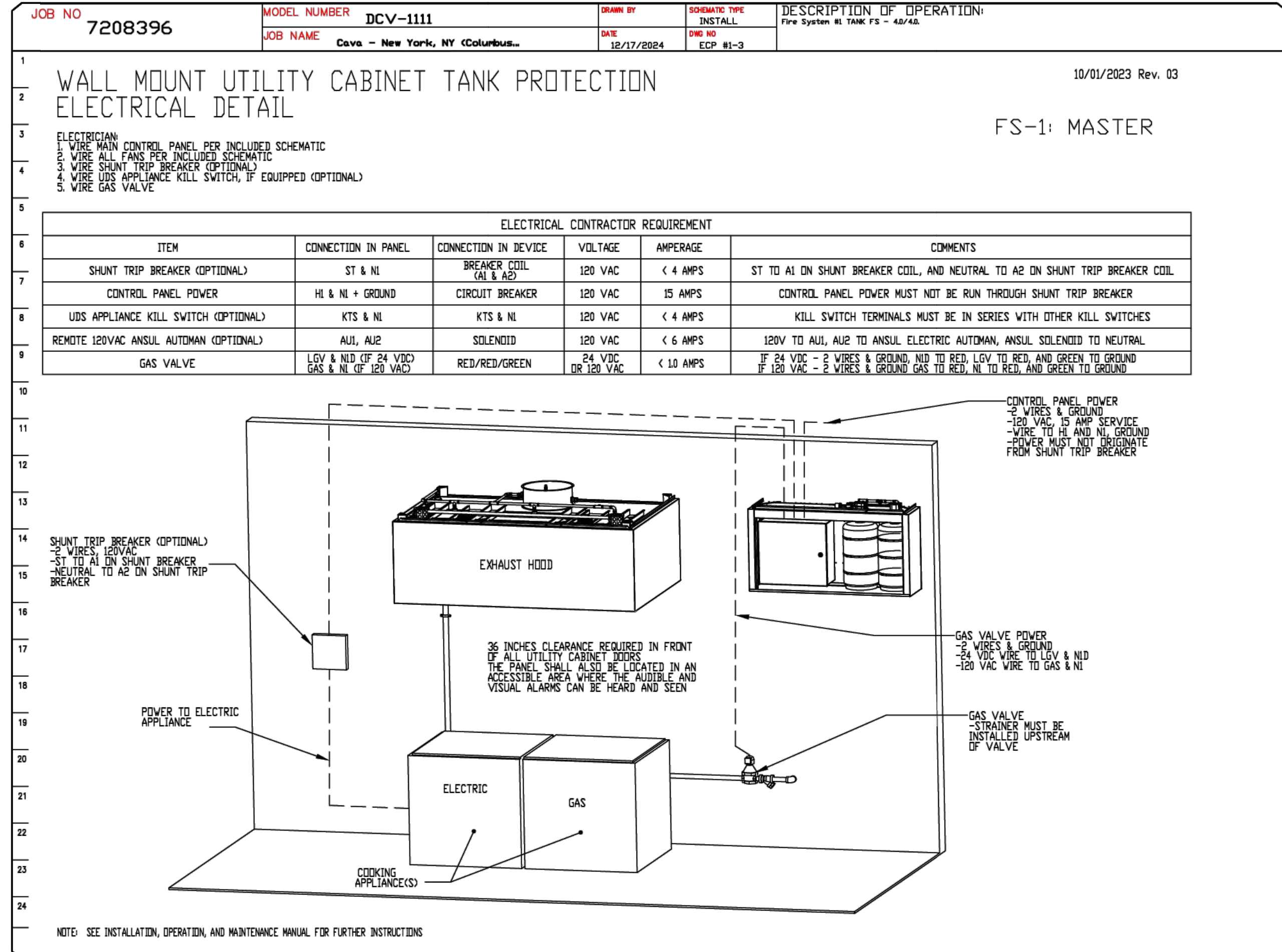
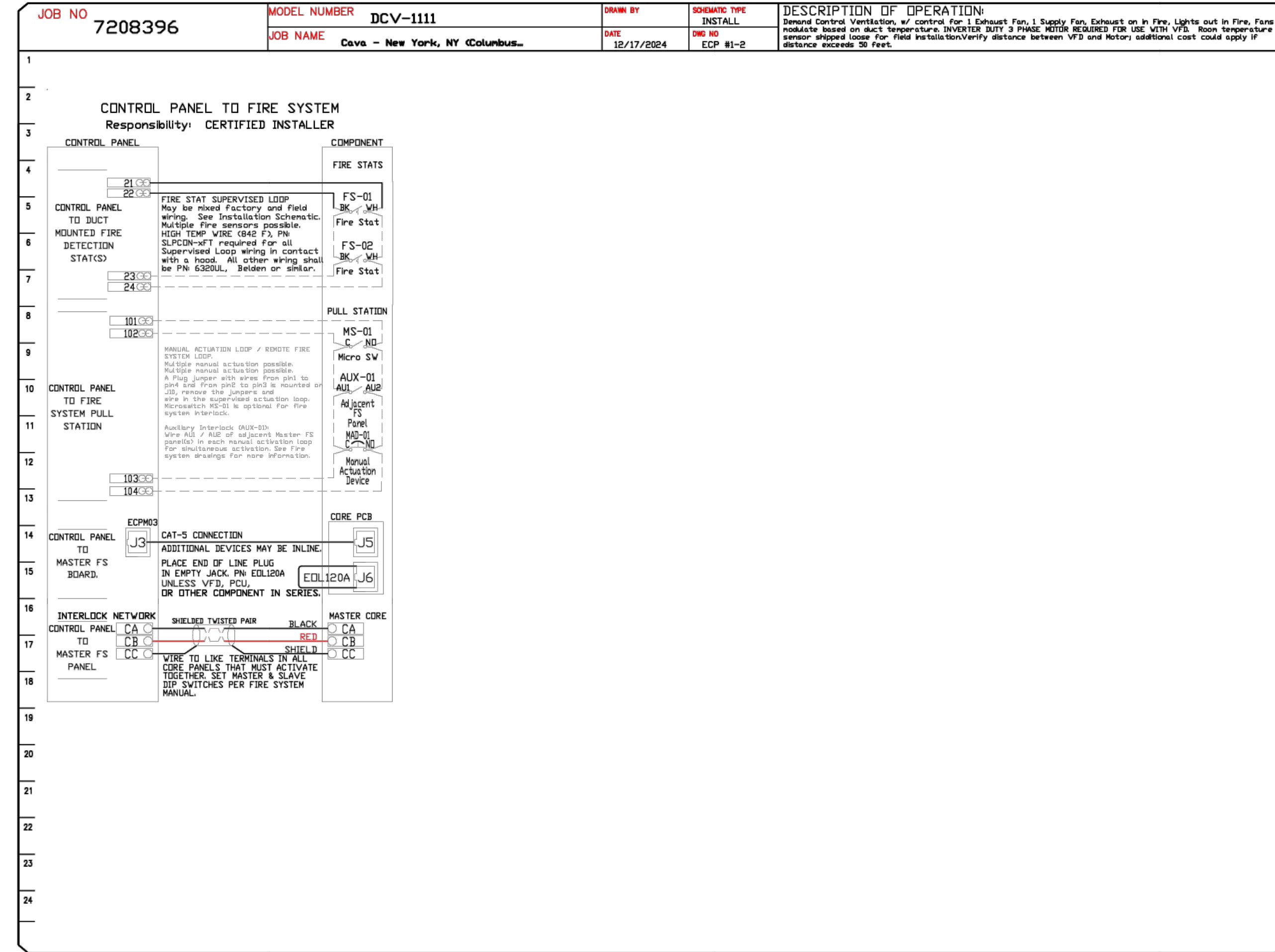
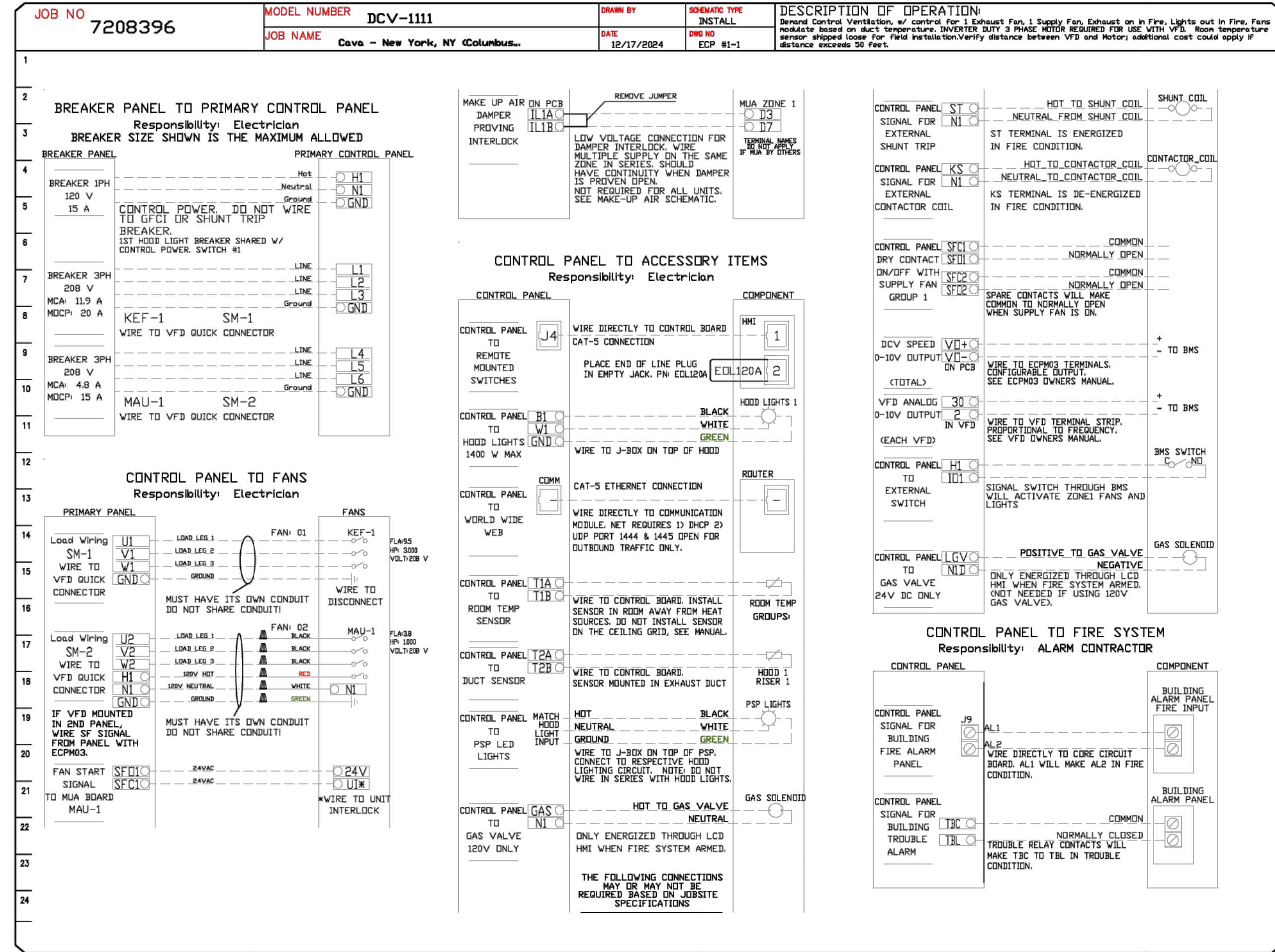


Gaslink Monitor and Control

- Head control panel to support communications to cloud-based Building Management System.
- Head Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR on the points list.
- Head Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL on the points list.
- Head Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	DC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
Room Discharge Temperature	MONITOR	Room Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Ampage	MONITOR	Controler Faults	MONITOR
Fan Phase	MONITOR	Fan Status	MONITOR
FCV Status	MONITOR	FCV Status	MONITOR
Condenser Faults	MONITOR	FCV Filter Chip Penetration	MONITOR
Fan Phase	MONITOR	Fan Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
FCV Status	MONITOR	Building Pressure	MONITOR & CONTROL
FCV Filter Chip Penetration	MONITOR	Fan Status(s)	MONITOR & CONTROL
Fan Condition	MONITOR	Exhaust Hood(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Flank Status	MONITOR & CONTROL
Building Pressure	MONITOR & CONTROL		
Prep Time Status	MONITOR & CONTROL		
Fan Status	MONITOR & CONTROL		
Exhaust Hood	MONITOR & CONTROL		
Flank Status	MONITOR & CONTROL		



REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE

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MASTER DRAWING

SHEET NO. 8

ISSUED FOR CONSTRUCTION SET - 04/25/2025

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CLIENT: **CAVA**

ARCHITECT: **new york design ARCHITECTS, LLP**

PROJECT NO: 23195 DATE: 02/26/2024

SHEET CONTENTS: JS IS HN/DT

MECHANICAL KITCHEN EQUIPMENT SHEET 8 OF 10

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DATE: 02/26/2024

SCALE: NTS

PROJECT NO: 23195

SHEET NO: 8 OF 16

JOB NO: M-507.00

