

## GENERAL MECHANICAL NOTES

### GENERAL

ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE STANDARDS AND CODES, REFERENCE THE 2022 NEW YORK CITY MECHANICAL CODE, NEW YORK CITY ENERGY CONSERVATION CODE AND/OR ASHRAE 90.1-2016.

1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
4. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
6. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.
7. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.
9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS. COORDINATE REQUIREMENTS WITH DIVISION 26 OR 16.

### ALTERATION WORK AND DEMOLITION

1. ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.
2. UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK AND PIPING TO REMAIN SHALL BE PROPERLY VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
3. NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK OR PIPING SYSTEM UPON COMPLETION OF WORK.
4. EXISTING DUCTWORK AND PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.
5. ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.
6. ALL EXISTING UNNECESSARY DUCTWORK AND PIPING NOT RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
7. RE-ROUTE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
8. WHERE PORTIONS OF EXISTING DUCT SYSTEMS ARE TO REMAIN CONTRACTOR TO TAKE AIRFLOW READINGS AT ALL AIR TERMINALS ASSOCIATED WITH THE DUCT SYSTEM TO BE MODIFIED BEFORE COMMENCEMENT OF WORK AND AFTER ALTERATION WORK IS COMPLETE. AIR BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT NEEB CERTIFIED COMPANY, NOT ASSOCIATED WITH THE CONTRACTOR. REPORTS ARE TO BE ISSUED TO THE OWNER AND ENGINEER AT BOTH OCCURRENCES. IF AS-BUILTS ARE AVAILABLE, DISCREPANCIES NOTED BETWEEN THE AS BUILT DRAWINGS AND THE INITIAL AIR FLOW READINGS ARE TO BE NOTED ON THE AIR FLOW REPORT. EXISTING AIR TERMINALS ARE TO BE BALANCED TO THE ORIGINAL READINGS AT COMPLETION OF WORK UNLESS OTHERWISE IDENTIFIED.

### SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR DUCTWORK LAYOUT, PIPING LAYOUT, SHEET METAL, SHOP STANDARDS AND ALL EQUIPMENT FURNISHED.
2. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTOCAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2010 IF NOT SPECIFIED.
3. PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED "NOT REVIEWED".

### COORDINATION DRAWINGS

1. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. IF REQUESTED, ELECTRONIC FILES OF THE MECHANICAL FLOOR PLANS, SECTIONS AND ELEVATIONS ONLY WILL BE MADE AVAILABLE. ELECTRONIC FILES WILL BE RELEASED ONLY UPON RECEIPT OF THE SIGNED AGREEMENT FOR TRANSFER OF ELECTRONIC FILE DATA, AGREEMENT FOR TRANSFER OF BUILDING INFORMATION MODEL AND ALL FEES INDICATED THEREIN.
2. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
  - A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.
  - B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
    - MECHANICAL SHEET METAL
    - PLUMBING PIPING
    - MECHANICAL PIPING
    - SPRINKLER PIPING
    - ELECTRICAL WORK

2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.
3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.
7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

### AS-BUILT DRAWINGS

1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2010 IF NOT SPECIFIED. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
  3. INCLUDE ALL CHANGES AND AN ACCURATE RECORD IN AUTOCAD DRAWING OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.
  4. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
  5. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
  6. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
  7. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
  8. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
  9. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

### HOUSEKEEPING PADS

1. PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR-MOUNTED EQUIPMENT. COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING LOCATIONS, AND ANCHOR BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONSTRUCTED OF 3,000 PSI CONCRETE. PADS SHALL BE 4 INCHES HIGH, AND MINIMUM 4 INCHES WIDER THAN THE EQUIPMENT IN BOTH DIRECTIONS.
2. COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO CLOSER THAN 2 INCHES FROM THE SIDE OF THE PAD. FLOOR DRAINS TO BE COORDINATED WITH PLUMBING CONTRACTOR.

### HANGERS AND SUPPORT

1. SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.
  2. PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC. ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER EQUIPMENT AND PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED, MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
  3. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
  4. BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, 1 BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.
  5. PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

## MECHANICAL GENERAL NOTES

1. COORDINATE ALL HVAC WORK AND EQUIPMENT WITH STRUCTURAL STEEL, FIRE PROTECTION PIPING, PLUMBING PIPING, LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND OWNER'S EQUIPMENT.
2. ALL EXISTING CONDITIONS AS INDICATED ARE APPROXIMATIONS OF EXACT CONDITIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE CONSTRUCTION CONDITIONS BEFORE SUBMITTING BID.
3. WHENEVER THE DOCUMENTS INDICATE FOR NEW PIPING TO CONNECT TO AN EXISTING PIPING SYSTEM (OTHER THAN A STEAM SYSTEM), CONTRACTOR SHALL INSTALL A TEMPORARY CORROSION INHIBITOR SYSTEM TO TREAT THE EXISTING PIPING. THE SYSTEM SHALL CONSIST OF AN INJECTOR, PIPING MODIFICATIONS AND APPLICABLE CHEMICALS REQUIRED TO TREAT THE EXISTING SYSTEM FOR A MINIMUM OF THREE WEEKS PRIOR TO ANY NEW CONNECTIONS. UPON INSTALLATION OF THE NEW PIPING SYSTEM, THE ENTIRE SYSTEM (NEW & EXISTING) SHALL BE FLUSHED WITH A CHEMICAL CLEANSING AGENT.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING GRILLES, REGISTERS AND DIFFUSERS.
5. PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCT SERVING DIFFUSER WHETHER INDICATED OR NOT.
6. PROVIDE CABLE OPERATED DAMPERS IN BRANCH DUCT SERVING DIFFUSERS IN INACCESSIBLE CEILING LOCATIONS WHETHER INDICATED OR NOT.
7. LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS.
8. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHUS, PUMPS, CHILLERS, ETC. ON 4" CONCRETE PADS UNLESS OTHERWISE INDICATED.
9. PROVIDE TRAPPED CONDENSATION DRAIN PIPING FROM COOLING COIL DRAIN PAN TO DISCHARGE POINT INDICATED. (REFER TO PLUMBING PLANS FOR FLOOR DRAIN LOCATIONS).
10. ALL CONCRETE HOUSEKEEPING PADS FOR HVAC EQUIPMENT ARE BY DIVISION 15 (23).
11. RUN REFRIGERATION PIPING FROM AIR COOLED CONDENSING UNITS TO RESPECTIVE DX COOLING COILS. ROUTE AND SIZE PIPING PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
12. DUCTWORK INDICATED BY SINGLE LINE REPRESENTATION ARE GENERALLY SMALLER BRANCH ZONE DUCTS. COORDINATE ELEVATIONS AND PROVIDE NECESSARY OFFSETS.
13. ALL HWS AND HWR PIPING SERVING RADIATION SHALL BE CONCEALED IN WALLS OR FLOORS UNLESS OTHERWISE NOTED.
14. WHEREVER EXISTING SYSTEMS ARE ALTERED OR EXTENDED THE INTEGRITY OF THE SYSTEM IS TO BE MAINTAINED AND FUNCTION FULLY AS BEFORE. COORDINATE SCHEDULE FOR HOOK-UPS TO EXISTING SYSTEMS AND EQUIPMENT REMOVAL OR RELOCATION WITH THE OWNER AND PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
15. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
16. RELOCATE EXISTING DUCTWORK AND/OR PIPE WORK IN EXISTING CEILING SPACES TO ACCOMMODATE ALL RENOVATIONS AND ADDITIONS.
17. TAKE DOWN AND REINSTALL EXISTING CEILINGS IN ALL AREAS WHERE MECHANICAL WORK IS INDICATED AND EXISTING CEILINGS REMAIN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS WHERE EXISTING CEILINGS REMAIN. REPLACE CEILING TILES DAMAGED DURING WORK.
18. PATCH ALL WALLS, FLOORS, CEILINGS, AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.
19. THIS PROJECT CONSISTS OF MULTIPLE PHASES OF CONSTRUCTION OVER A SPECIFIED TIME PERIOD. PROVIDE ALL WORK NECESSARY TO KEEP EXISTING SYSTEMS IN SAFE OPERATION. PROVIDE ISOLATION (SHUTOFF) VALVES AT ALL CONNECTION POINTS TO EXISTING SYSTEMS.
20. PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS AS REQUIRED TO MAINTAIN WALL & FLOOR RATINGS AS DEFINED IN ARCHITECTURAL DRAWINGS.
21. PROVIDE PITCH CORRECTION CURBS FOR ALL MECHANICAL EQUIPMENT AS REQUIRED. ROOF MOUNTED EQUIPMENT TO BE INSTALLED PLUMB AND LEVEL ACCORDING TO EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS.
22. PROVIDE STAINLESS STEEL DRIP PANS WITH LEAK DETECTION FOR ALL SUSPENDED EQUIPMENT WITH COOLING COILS. LEAK DETECTION ALARM TO ALERT TO BMS.

## MECHANICAL DRAWING LIST

DRAWING NUMBER	DRAWING DESCRIPTION
M-100.00	GENERAL MECHANICAL NOTES
M-101.01	MECHANICAL BASEMENT AND FIRST FLOOR PLAN
M-102.01	MECHANICAL ROOF PLANS
M-103.01	MECHANICAL SCHEDULES
M-104.01	MECHANICAL DETAILS SHEET 1
M-105.01	MECHANICAL DETAILS SHEET 2
M-106.01	REFERENCE
M-107.01	REFERENCE
M-108.01	REFERENCE



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SEAL & S



Project Title:

TENANT FIT-OUT:  
**POPOP BAGELS**  
661 DRIGGS AVENUE  
BROOKLYN, NY 11211

Revision: Description: Date: Revised By:

Date: 8/20/24 Scale: 1/2" = 1'-0"  
Drawn By: MPB Project Number: 24-119

Sheet Title:

**GENERAL MECHANICAL  
NOTES**

Sheet Number:

**M-100.00**

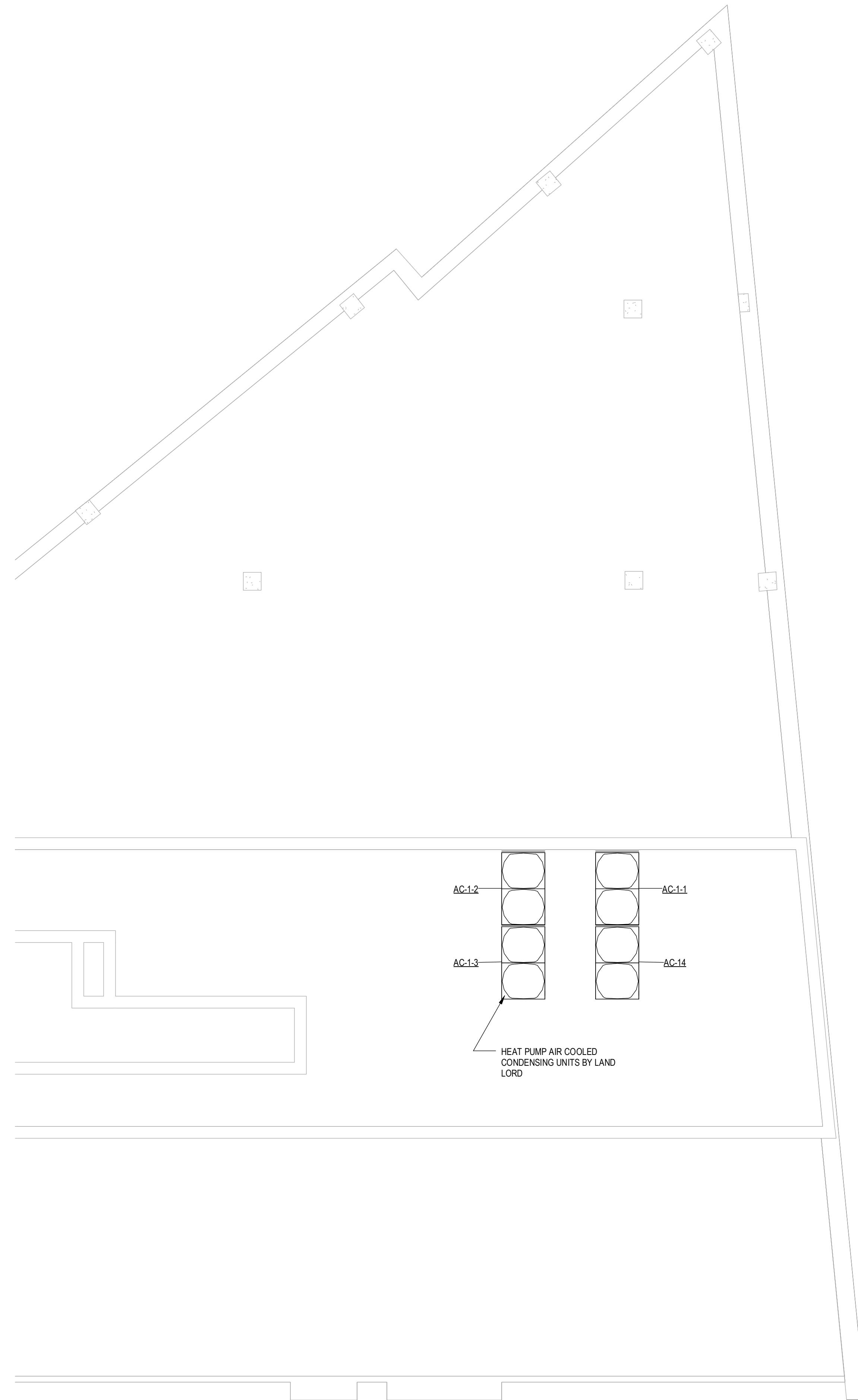




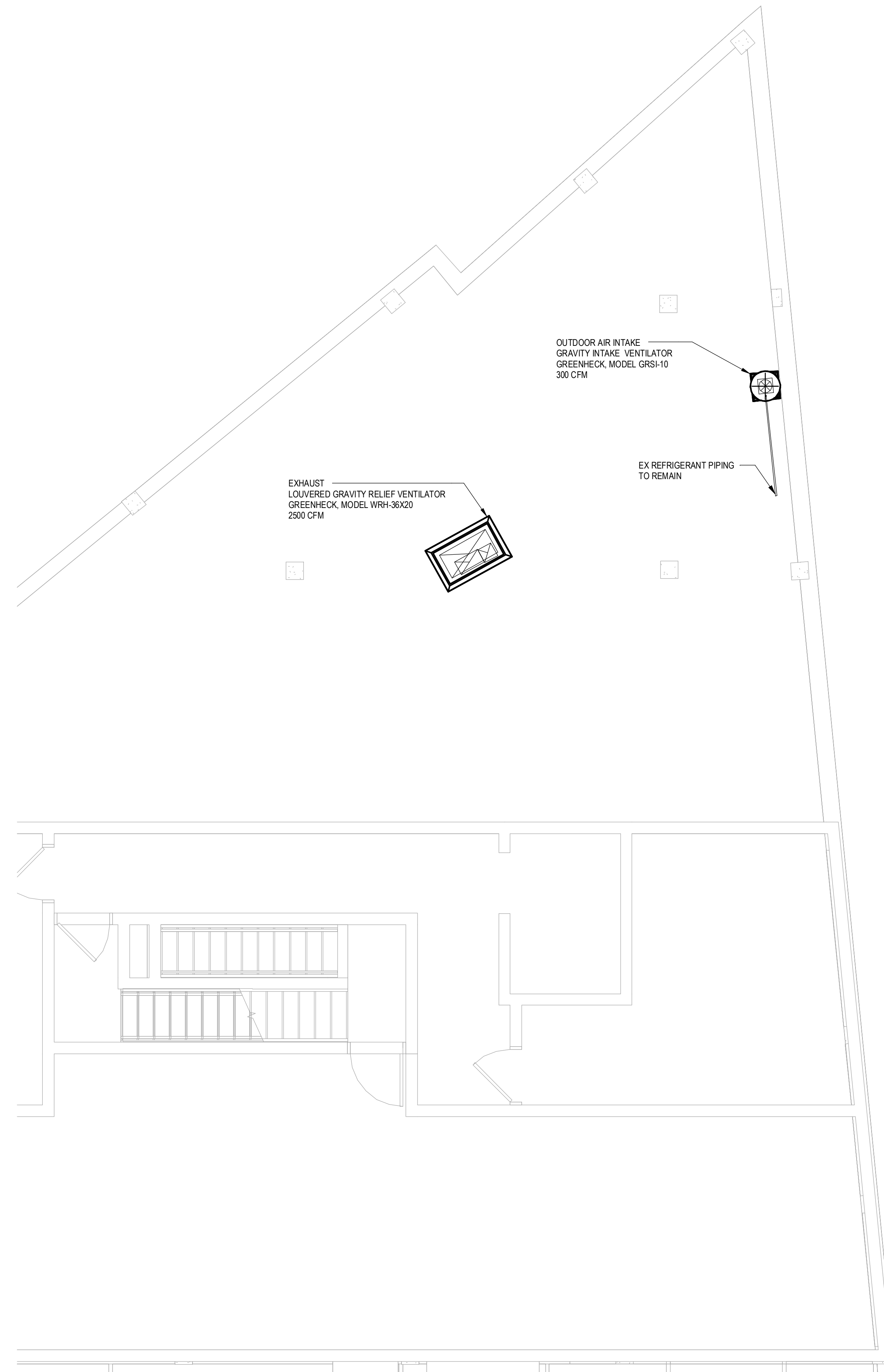
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**2** HIGH ROOF PLAN  
1/4" = 1'-0"



**1** LOW ROOF PLAN  
1/4" = 1'-0"

SEAL & S



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**TENANT FIT-OUT:  
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**MECHANICAL ROOF PLANS**

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DUCT MATERIAL SCHEDULE			
APPLICATION	SUPPLY	RETURN	EXHAUST
TYPICAL (UNLESS OTHERWISE SPECIFIED)	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL
10 FT UPSTREAM AND DOWNSTREAM OF DUCT MOUNTED HUMIDIFIER DISPERSION TUBE OR DISPERSION GRID.	3003 H-14 ALUMINUM	3003 H-14 ALUMINUM	3003 H-14 ALUMINUM
OUTDOOR AIR INTAKE PLENUM	3003 H-14 ALUMINUM	--	--
OUTDOOR AIR	3003 H-14 ALUMINUM	--	--
TYPE I COMMERCIAL KITCHEN HOOD EXHAUST DUCT & PLENUM	--	--	10 GAUGE ALL WELDED EXPOSED: 304 STAINLESS STEEL No. 4 FINISH CONCEALED: CARBON STEEL
EXPOSED AND CONCEALED EXHAUST DUCTWORK AND PLENUMS SERVING TOILET ROOMS, SHOWER ROOMS, CLOTHES DRYER, ALL DUCTWORK RUNNING THROUGH, OVER OR SERVING SHOWER ROOMS, HATCHERIES, AND ALL SPACES WITH OPEN TANKS.	3003 H-14 ALUMINUM	3003 H-14 ALUMINUM	3003 H-14 ALUMINUM
EXPOSED DUCTWORK LOCATED IN AND SERVING AIR-CONDITIONED SPACES TO BE FIELD PAINTED OTHER THAN DUCTWORK LOCATED IN SPACES REQUIRED TO BE ALUMINUM.	A60 GALVANNEALED STEEL	A60 GALVANNEALED STEEL	A60 GALVANNEALED STEEL
EXPOSED DUCTWORK LOCATED IN AND SERVING CONDITIONED SPACES OTHER THAN DUCTWORK LOCATED IN SPACES REQUIRED TO BE ALUMINUM.	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL
EXPOSED DUCTWORK LOCATED IN AND SERVING CONDITIONED SPACES OTHER THAN DUCTWORK LOCATED IN SPACES REQUIRED TO BE ALUMINUM OR TO BE FIELD PAINTED.	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL	G90 GALVANIZED STEEL
DISHWASHER HOOD	--	--	304 STAINLESS STEEL EXPOSED: No. 4 FINISH CONCEALED: No. 2D FINISH

1. DUCT CONSTRUCTION SHALL MEET SMACNA METAL & FLEXIBLE 2005 3RD EDITION STANDARDS.

VIBRATION-CONTROL AND SEISMIC-RESTRAINT DEVICE SCHEDULE				
EQUIPMENT	BASE	ISOLATOR*	SEISMIC RESTRAINT	DEFLECTION
CONDENSING UNITS (GRADE AND ROOF MOUNTED)	24" HIGH EQUIPMENT RAILS	NP	LAG BOLT TO RAIL, RAIL TO BE ATTACHED TO STRUCTURE.	0.2"
SUSPENDED CABINET UNIT HEATERS	--	HN	CABLE RESTRAINTS	0.25"
VAV BOXES LESS THEN 50BLBS IN WEIGHT	--	--	CABLE RESTRAINTS	--
SUSPENDED INLINE FANS	--	HSN	CABLE RESTRAINTS	1.5"
INDOOR CEILING MOUNTED AIR HANDLING UNITS	--	HSN	CABLE RESTRAINTS	1.2"
CEILING MOUNTED FAN COIL UNITS	--	HSN	CABLE RESTRAINTS	1.2"
FAN POWERED VAV UNITS	--	HN	CABLE RESTRAINTS	0.25"
ROOF MOUNTED FANS	SRC	--	--	--
PIPING WITHIN 50FT OF CONNECTION TO ANY PIECE OF EQUIPMENT WITH A MOTOR	--	HSN	--	1.2"
DUCTWORK IN MECH. ROOMS OR WITHIN 50FT OF CONNECTED VIBRATION-ISOLATED EQUIPMENT	--	HN	--	0.25"

REMARKS:  
 (NP) - NEOPRENE PAD, (DNP) - DOUBLE NEOPRENE PAD, (FNC) - FLOOR NEOPRENE RESTRAINED MOUNTS, (FSN) - FLOOR SPRING AND NEOPRENE SPRING ISOLATOR, (FSNTL) - FLOOR SPRING AND NEOPRENE TRAVEL LIMITED RESTRAINED SPRING ISOLATOR, (HN) - NEOPRENE HANGER, (HSN) - SPRING AND NEOPRENE HANGER, (RC2) - ROOF CURB, TYPE 2, (BSF) - BASE, STEEL FRAME, (BIB) - BASE, INERTIA BASE, (FPC) - FLEXIBLE PIPE CONNECTIONS, (SRC) - SEISMIC ROOF CURB.

\* IN ADDITION TO ANY INTERNAL VIBRATION ISOLATION.  
 \*\* SYSTEM SHALL BE DESIGNED TO BE 90% EFFICIENT.

DUCT INSULATION SCHEDULE			
SYSTEM	INSULATION TYPE	MINIMUM INSTALLED INSULATION VALURS	NOMINAL DENSITY
INDOOR DUCT/PLENUM CONCEALED SA, RA, OA: OTHER THAN PRE-MANUFACTURED LINEAR SUPPLY AND RETURN GRILLE PLENUMS.	MINERAL FIBER BLANKET	SEE NOTE 1	SEE NOTE 1
	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER	SEE NOTE 1	SEE NOTE 1
INDOOR DUCT/PLENUM EXPOSED SA AND RA: LOCATED IN MECHANICAL ROOMS, OTHER NON-OCCUPIED SPACES, NON-AIR CONDITIONED SPACES, PASSING THROUGH AIR CONDITIONED SPACES.	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER	SEE NOTE 1	SEE NOTE 1
INDOOR DUCT/PLENUM EXPOSED OA: ALL SPACES OTHER THAN ATTICS AND CRAWL SPACES	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER	SEE NOTE 1	SEE NOTE 1
INDOOR DUCT/PLENUM EXPOSED SA, RA, OA, EA: ALL ATTIC SPACES AND CRAWL SPACES	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER	SEE NOTE 1	SEE NOTE 1
INDOOR DUCT/PLENUM EXPOSED SA AND RA: LOCATED WITHIN THE AIR-CONDITIONED SPACE IT SERVES.	NONE: UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATION.	SEE NOTE 1	SEE NOTE 1
DUCT LINING DUCTS INSTALLED OUTDOORS. ALL ATTIC SPACES AND CRAWL SPACES SA AND RA, SA AND RA DUCTWORK WHERE INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION, 15 FT DOWNSTREAM OF SUPPLY FANS, RETURN FANS AND 10 FT DOWNSTREAM OF TERMINAL BOXES WHETHER INDICATED OR NOT.	FIBROUS-GLASS DUCT LINER WITH CLEANABLE COMPOSITE COATING ON AIRSTREAM SIDE. METAL NOSING SHALL BE FURNISHED ON ALL LEADING AND LEAVING EDGES. (REFER TO NOTES #2, #4)	SEE NOTE 1	SEE NOTE 1
DUCT LINING DUCTS INSTALLED IN INDOOR SPACES: EXPOSED AND CONCEALED SA OR RA DUCTWORK WHERE INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION, 15 FT DOWNSTREAM OF SUPPLY FANS, RETURN FANS AND 10 FT DOWNSTREAM OF TERMINAL BOXES WHETHER INDICATED OR NOT.	FIBROUS-GLASS DUCT LINER WITH CLEANABLE COMPOSITE COATING ON AIRSTREAM SIDE. METAL NOSING SHALL BE FURNISHED ON ALL LEADING AND LEAVING EDGES. (REFER TO NOTES #2, #4)	SEE NOTE 1	SEE NOTE 1
ABOVEGROUND, OUTDOOR DUCT/PLENUM CONCEALED OR EXPOSED SA, RA, AND OA.	MINERAL FIBER BOARD (REFER TO NOTE #1)	SEE NOTE 1	SEE NOTE 1
EXHAUST AIR SYSTEMS DRYER, LABORATORY FUME HOOD, KILN AND ALL OTHER EXHAUST SYSTEMS WHERE FIRE, SMOKE AND FIRE/SMOKE DAMPERS ARE NOT PERMITTED TO BE INSTALLED WITHIN THE DUCTWORK.	FIRE-RATED BLANKET OR BOARD (REFER TO NOTE #5)	SEE NOTE 1	SEE NOTE 1
CONCEALED TYPE I COMMERCIAL KITCHEN HOOD EXHAUST DUCT & PLENUM.	FIRE-RATED BLANKET OR BOARD	SEE NOTE 1	SEE NOTE 1

NOTES:  
 1. DUCT INSULATION SHALL BE IN COMPLIANCE WITH APPLICABLE STANDARDS AND CODES, REFERENCE THE 2022 NEW YORK CITY MECHANICAL CODE, NEW YORK CITY ENERGY CONSERVATION CODE AND/OR ASHRAE 90.1-2016.  
 2. FOR OUTDOOR DUCTWORK PROVIDE A PRE-MANUFACTURED SELF ADHERING PRODUCT WITH AN UV RESISTANT, STUCCO EMBOSSED FACING. WATER VAPOR TRANSMISSION OF THE INSTALLED PRODUCT SHALL BE 020 PERMS OR LESS. PRODUCT SHALL BE SUITABLE FOR CONTINUOUS USE IN LOW TEMPERATURES OF -10°F. MANUFACTURERS SHALL BE SIMILAR TO FLEX-CLAD 400, MFM BUILDING PRODUCTS CORP. OR ALUMAGUARD 60, POLYGUARD PRODUCTS, INC.  
 3. DUCT LINING SHALL NOT BE INSTALLED WITHIN 10 FT UPSTREAM OR DOWNSTREAM OF A DUCT MOUNTED HUMIDIFIER DISPERSION TUBE OR DISPERSION GRID.  
 4. INSULATION TYPES INDICATED IN THE SCHEDULE SHALL USED UNLESS OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS.  
 5. CLOSED CELL, FIBER FREE, ANTI-MICROBIAL COATED, LOW VOC CERTIFIED, MOISTURE AND MOLD RESISTANT DUCT LINING SHALL BE PROVIDED IN DUCTWORK AND EQUIPMENT WITHIN HOSPITAL AND HEALTHCARE FACILITIES AND ROOMS CLASSIFIED AS MOIST OR WET ENVIRONMENTS WHERE THIS SCHEDULE, DRAWINGS AND SPECIFICATION INDICATE DUCT LINING.  
 6. DUCTWORK SHALL BE FIRE WRAPPED FROM THE APPLIANCE CONNECTION TO THE TERMINATION POINT.

ABBREVIATIONS:  
 OA = OUTDOOR AIR DUCTWORK  
 SA = SUPPLY AIR DUCTWORK  
 RA = RETURN AIR DUCTWORK  
 EA = EXHAUST AIR DUCTWORK

FAN SCHEDULE															
MARK	LOCATION	SYSTEM SERVED	TYPE	CFM	SP	MAX BHP	FAN RPM	TIP SPEED	SOUND SONES	ELECTRICAL DATA			MAKE/ MODEL	REMARKS	
										HP	VOLTS	Ø			
EF-1	TOILET	EXHAUST	CEILING	75	.5	.01	771	-	3	0.01	115	1	15	GREENHECK SP-LP0511-1	DIRECT DRIVE
EF-2	BASEMENT	EXHAUST	INLINE	100	.5	.065	825	-	1.3	56.8 WATTS	115	1	15	GREENHECK CSP-A200	DIRECT DRIVE

REMARKS:  
 1. ALL FANS SHALL BE BALANCED TO AIRFLOW QUANTITY INDICATED ON PLANS AT INLETS AND OUTLETS.  
 2. PROVIDE SPEED CONTROLLERS.  
 3. PROVIDE BACKDRAFT DAMPERS.  
 4. PROVIDE VIBRATION ISOLATION  
 5. PROVIDE MOTOR COVERS/BELT GUARDS.

DOOR AIR CURTAIN SCHEDULE										
MARK	LOCATION	NOZZLE LENGTH	CFM	VEL. (FPM)	FAN MOTOR DATA			MTG. HT. (A.F.F.)	MAKE/ MODEL	REMARKS
					HP	VOLT	Ø			
DAC-1	FRONT DOOR	6'-0"	2080	1387	(2)@1/2	208	3	VERIFY IN FIELD	MARS STD272-2E6312	HEATED, 12 KW

REMARKS:  
 1. PROVIDE WITH FACTORY DISCONNECT, MOUNTING BRACKETS, FILTERS.

REGISTERS, GRILLES & DIFFUSERS									
SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL FINISH	NECK SIZE	FACE SIZE	CFM RANGE	ACCESSORIES
(A)	SUPPLY	CD	TITUS	272 (FL / FS)	BY ARCH	27x8	--	0-675	--
(B)	RETURN	TR	TITUS	23R	BY ARCH	14x24	--	0-535	--
(C)	SUPPLY	CD	TITUS	TDC	BY ARCH	6'0	24x24	0-100	--
						8'0	24x24	101-220	--
						10'0	24x24	221-375	--
						12'0	24x24	376-475	--
						14'0	24x24	476-650	--
						16'0	24x24	651-850	--
(D)	RETURN	CG	TITUS	355 RL	BY ARCH	22x22	24x24	0-2000	--

VENTILATION INDEX BASED ON MC TABLE 403.3							
LOCATION	AREA (SFT)	OCCUPANT LOAD (PERSONS)	PEOPLE OUTDOOR AIR (CFM/PERSONS)	AREA OUTDOOR AIR (CFM/SFT)	REQUIRED OUTDOOR AIR (CFM)	EXHAUST AIRFLOW (CFM/SFT)	EXHAUST AIRFLOW (CFM) TX/KX
ACCESS STORAGE	773	6	--	0.06	0.06 x 773 = 46	--	100 / 0
PASS	80	0	--	0.06	0.06 x 80 = 4.8	--	--
KITCHEN	518	5	--	0.18	0.18 x 518 = 93	--	0 / 2,325
SERVICE	149	1	--	0.18	0.18 x 149 = 27	--	--
FRONT	162	5	--	0.06	0.06 x 162 = 10	--	--
TOILET	77	0	--	--	--	--	100 / 0



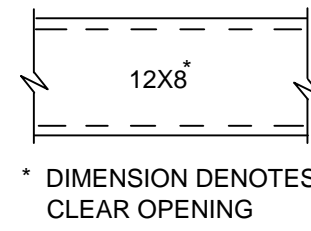
Project Title:  
**TENANT FIT-OUT:  
 POPUP BAGELS**  
 661 DRIGGS AVENUE  
 BROOKLYN, NY 11211

Revision: Description: Date: Revised By:

Date: 8/20/24 Scale: NONE  
 Drawn By: MPB Project Number: 24-119

Sheet Title:  
**MECHANICAL SCHEDULES  
 SHEET 1**

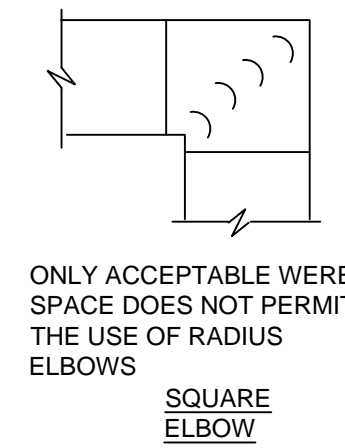
Sheet Number:  
**M-103.00**



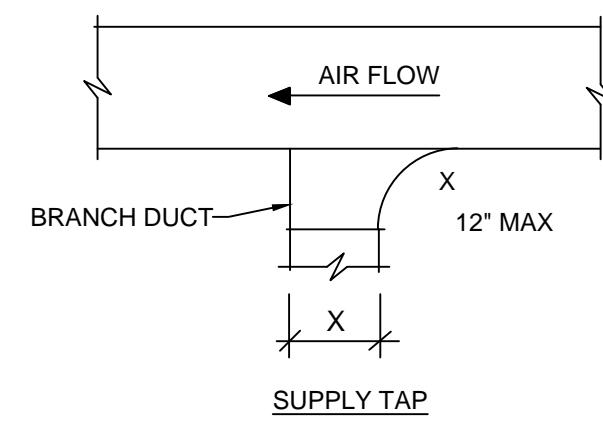
ACOUSTICALLY LINED DUCT

NOTE:

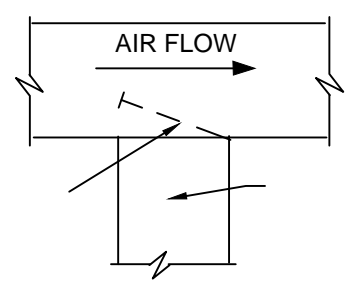
SPECIFICATIONS EXCEED SMACNA STANDARDS IN SOME INSTANCES. SMACNA SHALL BE CONSIDERED THE MINIMUM STANDARD UNLESS OTHERWISE NOTED ON THE DRAWINGS, DETAILS OR IN THE SPECIFICATIONS.



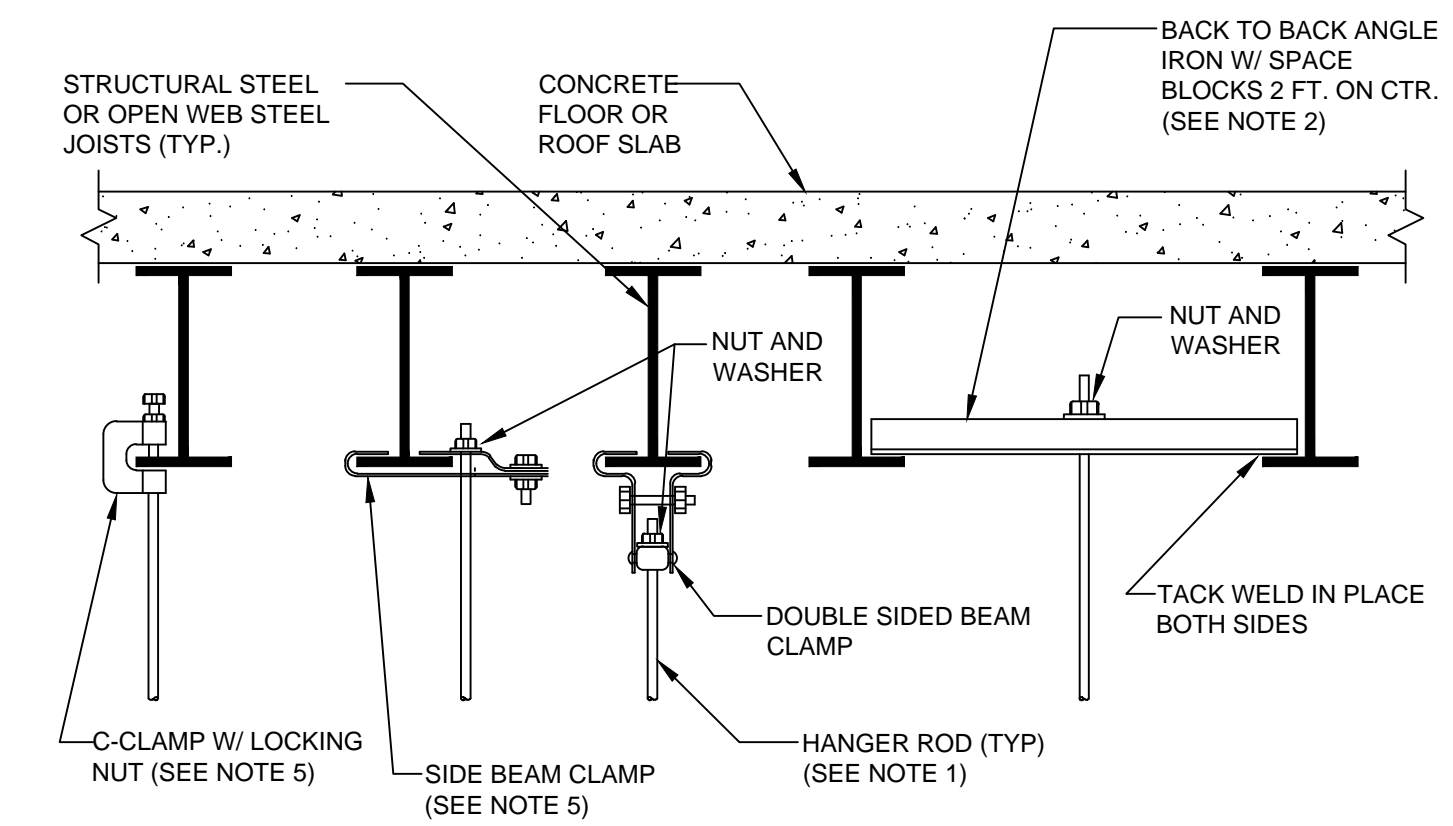
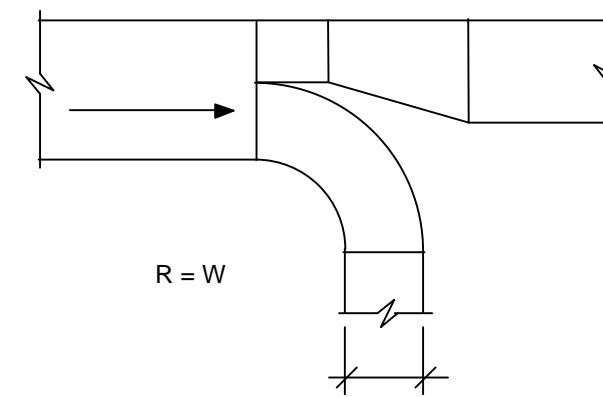
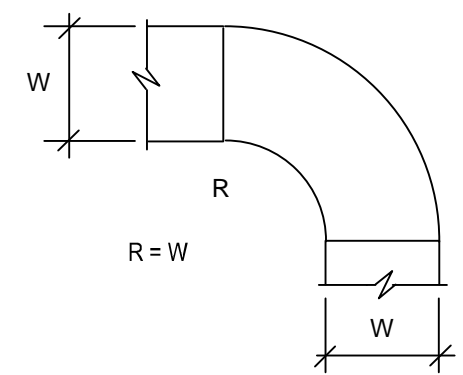
SQUARE ELBOW



SUPPLY TAP



TAKE-OFF TO EXPOSED SIDEWALL REGISTER



NOTES:

- REFER TO SPECIFICATIONS FOR PIPE HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
- FOR PIPES UNDER 2" USE A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x3"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
- REFER TO "TYPICAL METHOD OF SECURING HANGER RODS TO CONCRETE DECK DETAIL" FOR ATTACHING HANGER RODS TO CONCRETE DECK.
- REPAIR OF FIREPROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING CONSTRUCTION SHALL BE BY THE G.C.
- USE OF C-CLAMPS AND SIDE BEAM CLAMPS IS LIMITED TO PIPING 2-1/2" AND UNDER.

DUCT CONSTRUCTION DETAIL

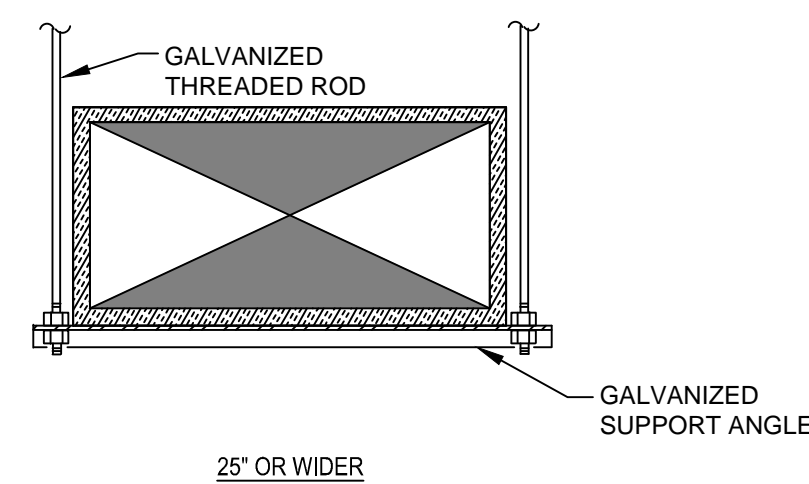
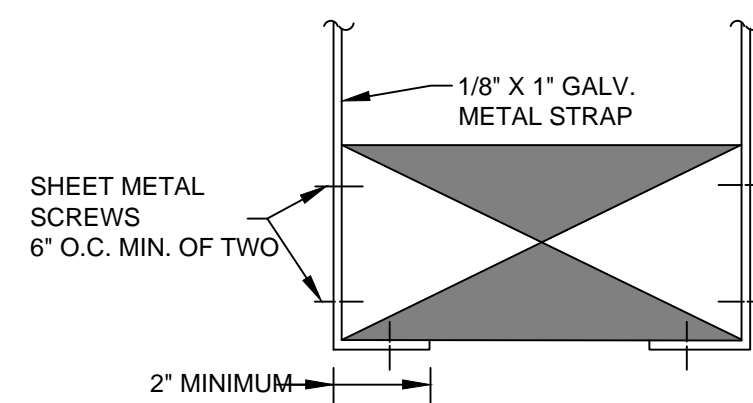
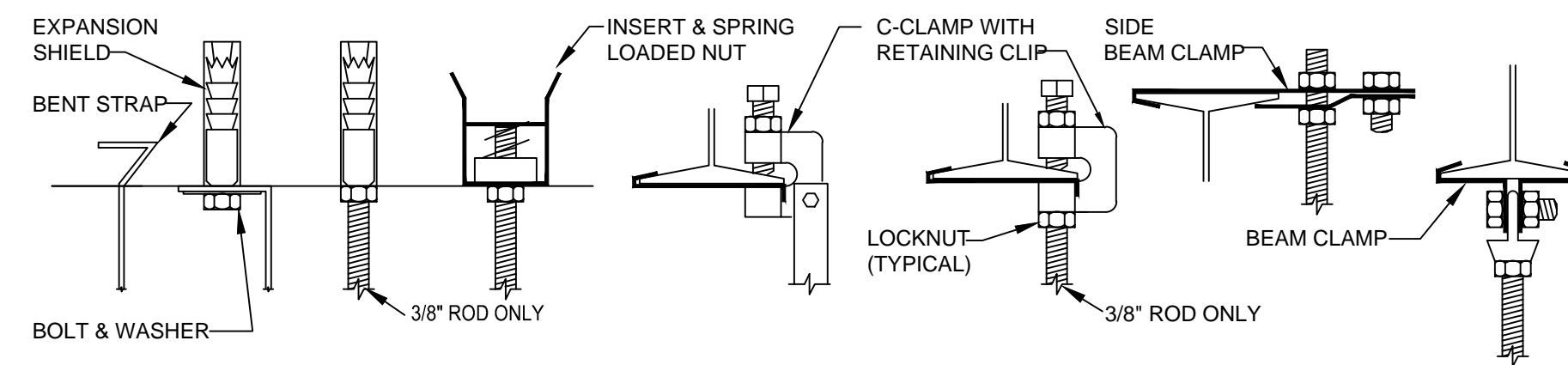
NOT TO SCALE

TYPICAL METHOD OF SECURING HANGER RODS TO STRUCTURAL STEEL DETAIL

NOT TO SCALE

DUCT WIDTH	SUPPORT ANGLE OR EQUIV. CHANNEL	ROD DIA.	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 30"	1 1/2" X 1 1/2" X 1/8"	3/8"	8'-0" O.C.	4 SQ. FT.
31" TO 42"	1 1/2" X 1 1/2" X 1/8"	3/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1 1/2" X 1 1/2" X 1/2"	1/2"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	2" X 2" X 1/4"	1/2"	4'-0" O.C.	-
85" AND UP	2" X 2" X 1/4"	1/2"	4'-0" O.C.	-

\* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM

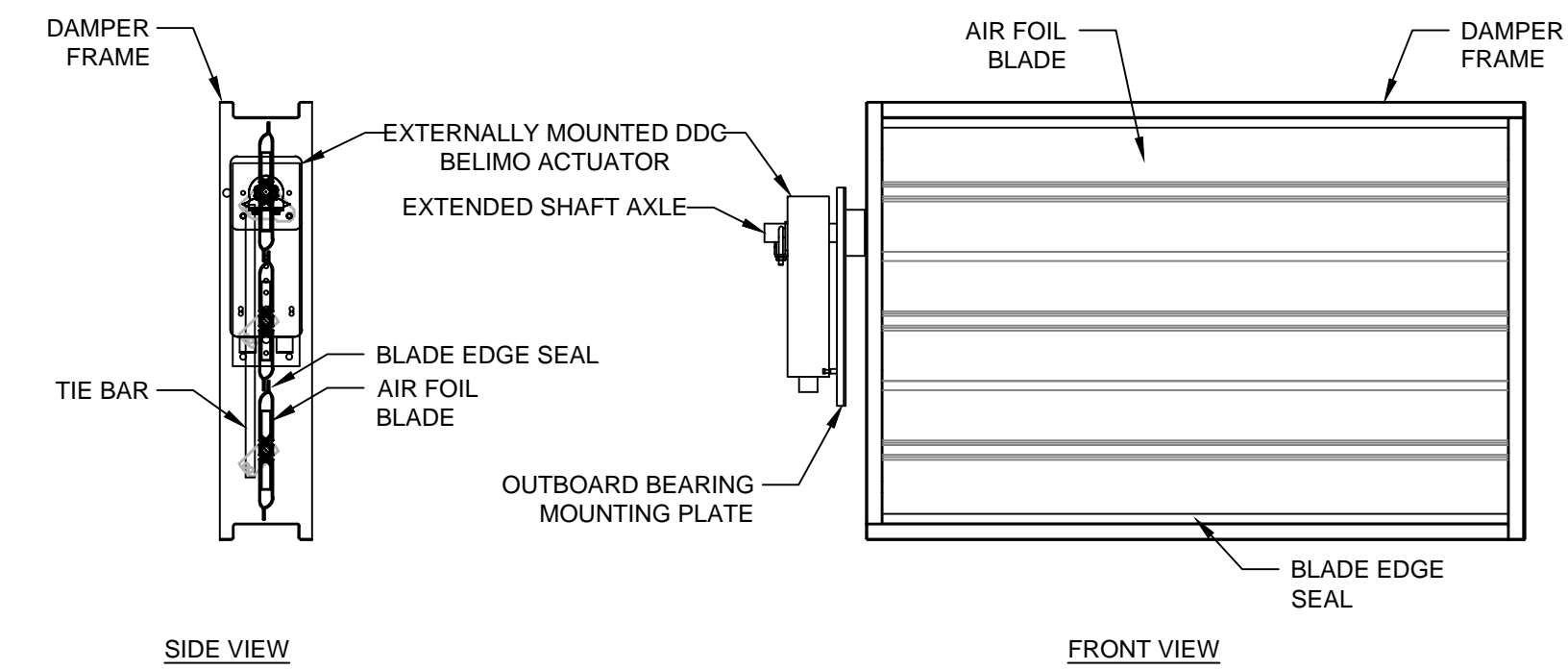


DUCT SUPPORT DETAIL

NOT TO SCALE

DAMPER UNIT WITH EXTERNAL MOUNTED ELECTRONIC ACTUATOR DETAIL

NOT TO SCALE



ARCHITECT:  
**SILVER PETRUCELLI & ASSOC.**  
 3190 WHITNEY AVENUE, HAMDEN CT 06518  
 311 STATE STREET NEW LONDON, CT 06320  
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Project Title:  
 TENANT FIT-OUT:  
**POPUP BAGELS**  
 661 DRIGGS AVENUE  
 BROOKLYN, NY 11211

Revision: Description: Date: Revised By:

Date: 8/20/24 Scale: NONE  
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**MECHANICAL DETAILS  
 SHEET 1**

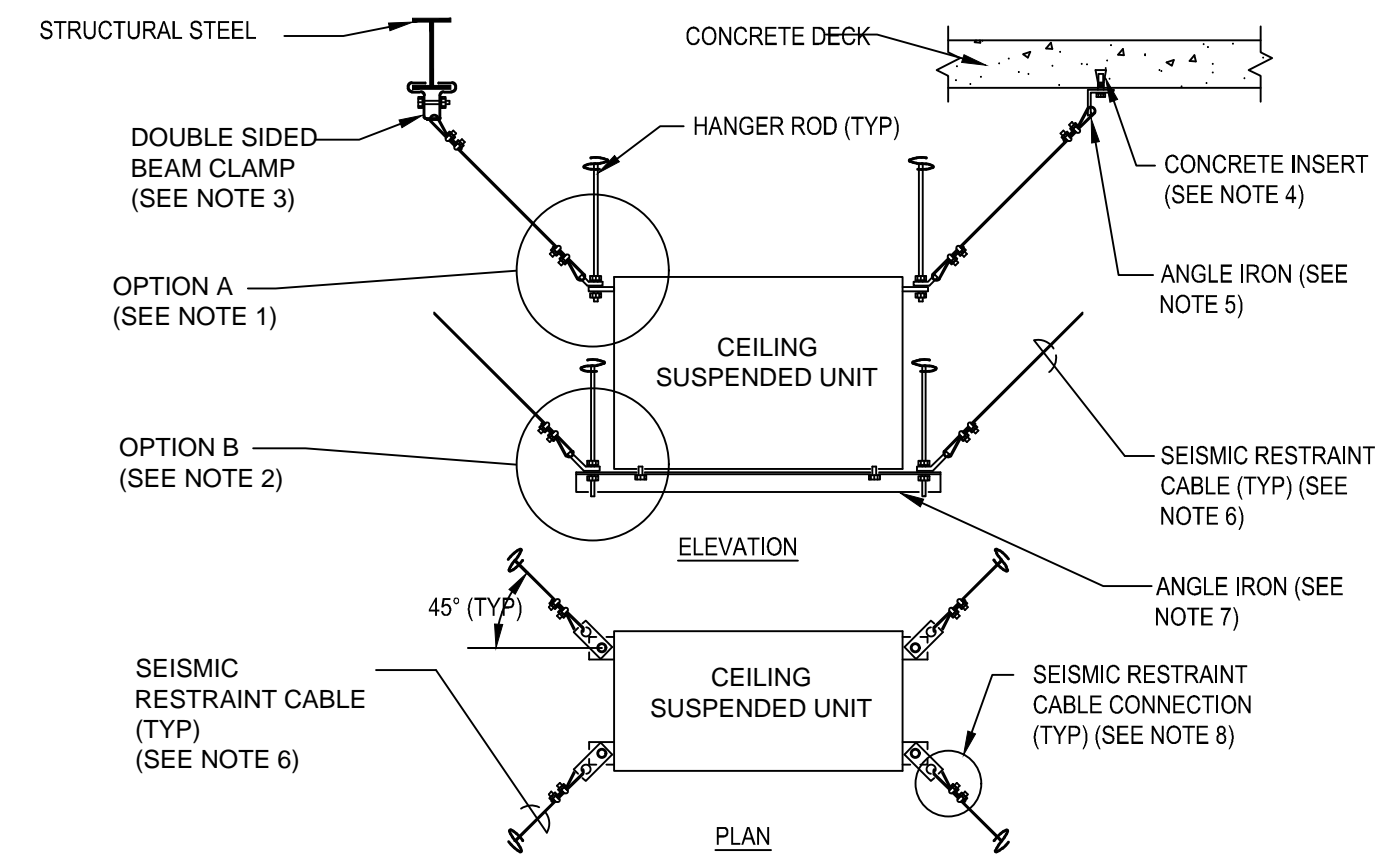
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**ARCHITECTS  
ENGINEERS  
INTERIORS**

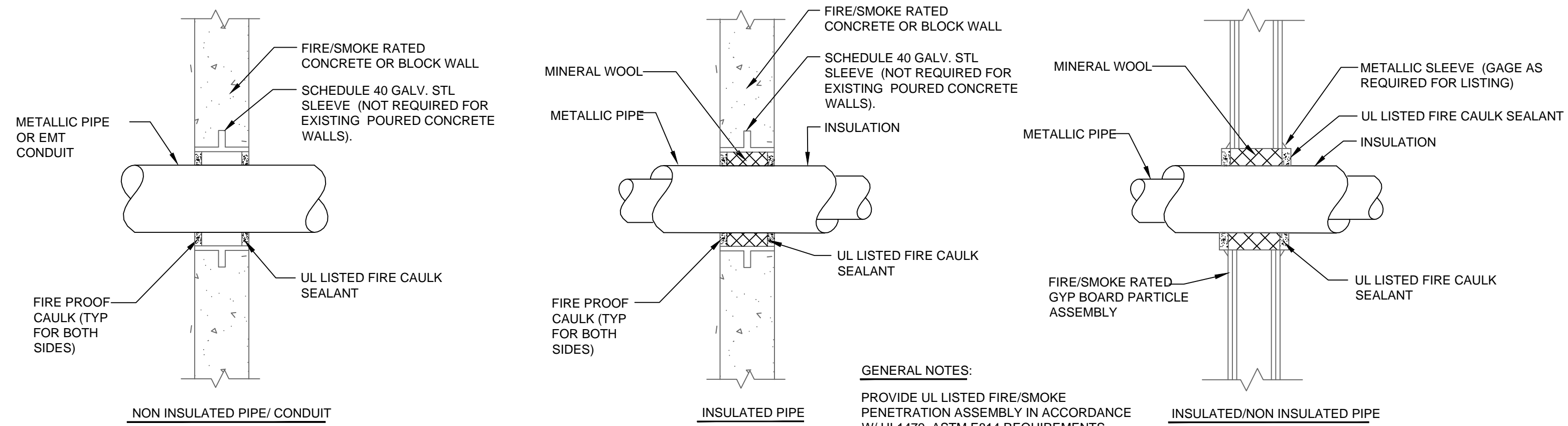
ARCHITECT:  
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**NOTES:**

- OPTION A APPLIES TO EQUIPMENT HAVING TOP OR SIDE ATTACHMENT.
- OPTION B APPLIES TO EQUIPMENT SUPPORTED FROM THE BOTTOM OF THE EQUIPMENT.
- USE DOUBLE SIDED BEAM CLAMPS FOR ATTACHMENT TO STRUCTURAL STEEL OR JOISTS.
- USE CONCRETE INSERTS FOR ATTACHMENT TO CONCRETE DECK TYPE CONSTRUCTION.
- ANGLE IRON SHALL BE 2-1/2"x5"x1/4" ANGLE 2" WIDE WITH (2) 9/16" HOLES FOR FASTENING TO CONCRETE DECK.
- SIZE CABLE BASED ON SEISMIC HAZARD LEVEL SPECIFIED. PROVIDE CABLE WITH 1/2" OF SLACK WHERE CABLES ARE USED WITH VIBRATION ISOLATED EQUIPMENT.
- PROVIDE 2 ANGLES FOR BOTTOM SUPPORT OF UNIT (OPTION B). PROVIDE (4) 2"x2"x1/4" ANGLES WELDED TO BOTTOM SUPPORT ANGLES AND TO UNIT. (THIS IS NOT REQUIRED WHERE UNIT IS PROVIDED WITH BOTTOM MOUNTING HOLES).
- REFER TO SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" FOR CABLE CONNECTION DETAIL.



**GENERAL NOTES:**

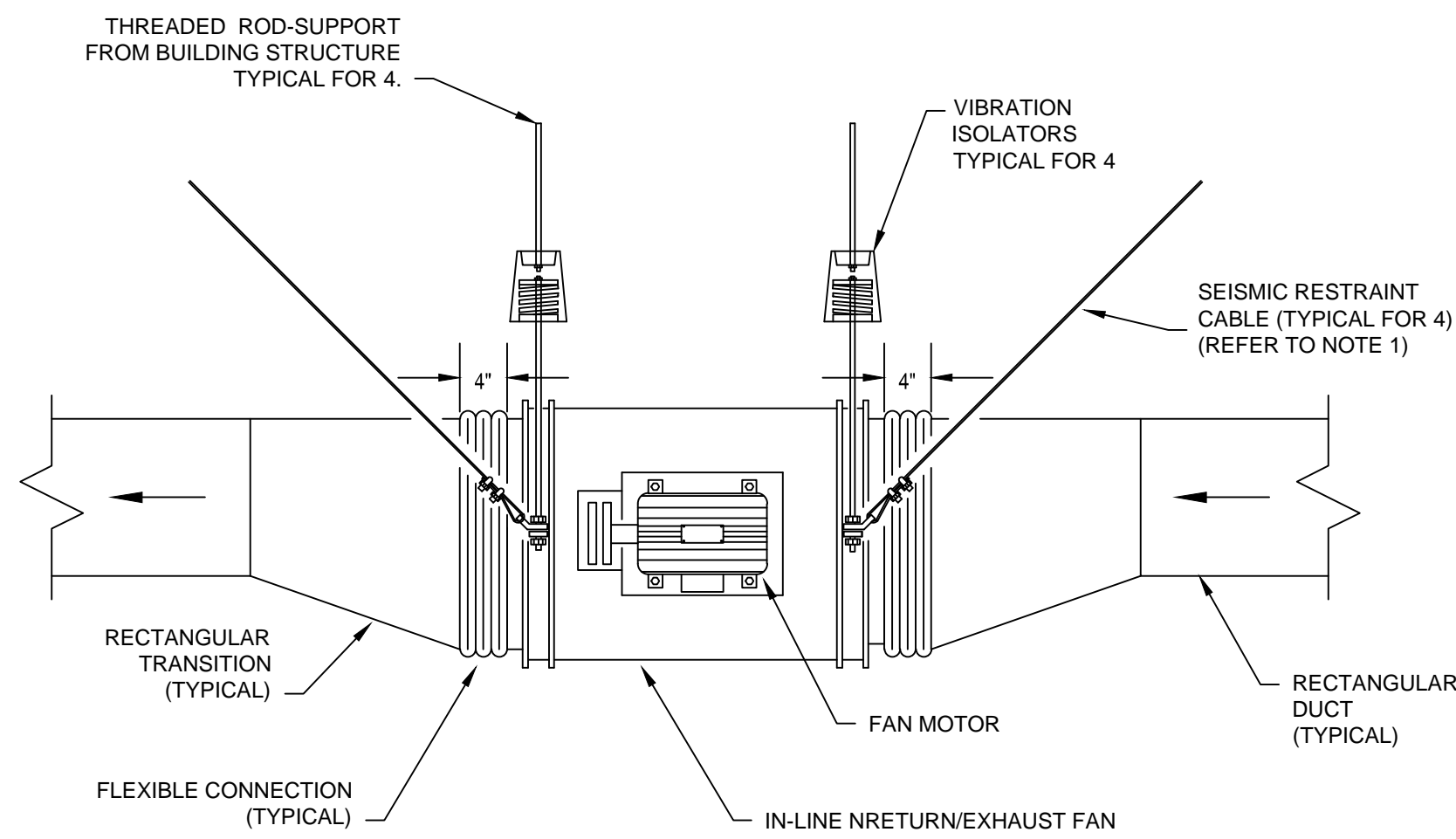
- PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE AND INSULATION THICKNESS INSTALLED. PLASTIC PIPE SYSTEMS: REFER TO MANUFACTURERS REQUIREMENTS.

**TYPICAL SEISMIC BRACING FOR SUSPENDED EQUIPMENT DETAIL**

NOT TO SCALE

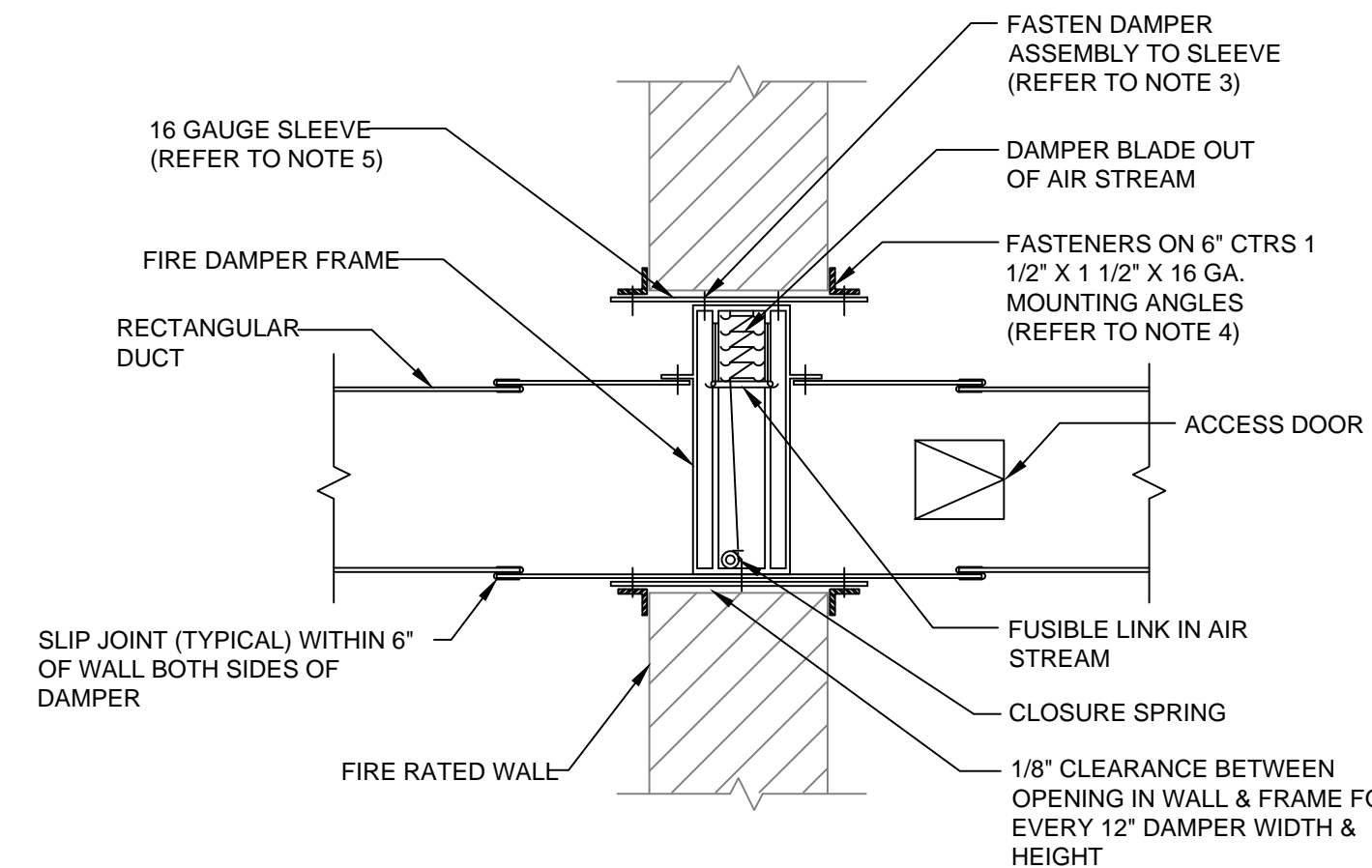
**PIPE PENETRATION WITH FIRE / SMOKE SEAL**

NOT TO SCALE



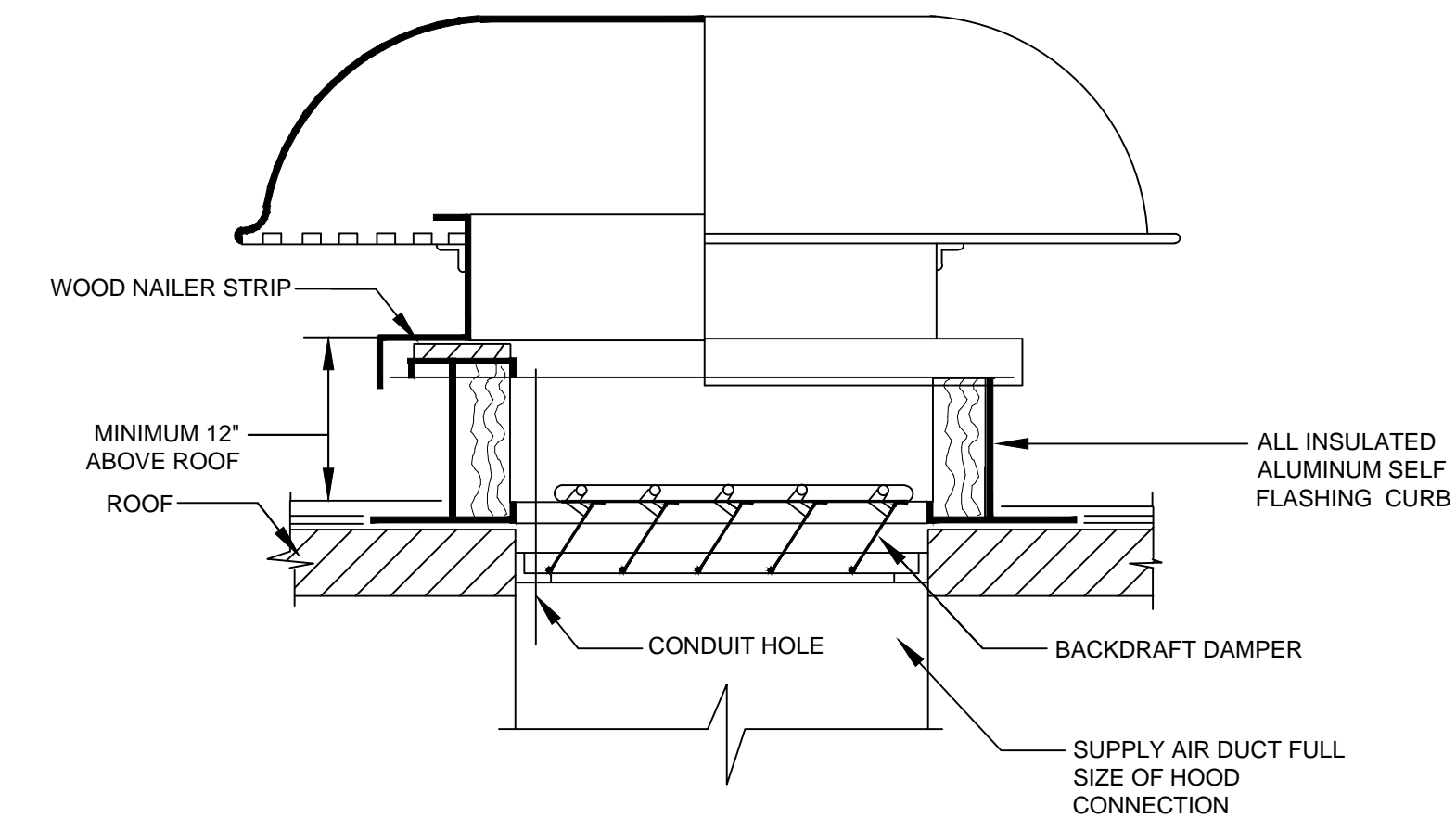
**NOTES:**

- INSTALL SEISMIC RESTRAINT CABLE PER SPECIFICATIONS, SMACNA SEISMIC RESTRAINT MANUAL-GUIDELINES FOR MECHANICAL SYSTEMS.



**NOTES:**

- INSTALL ACCESS DOOR IN DUCT FOR DAMPER ACCESS. ACCESS DOORS SHALL BE DOUBLE WALL WHEN LOCATED IN INSULATED DUCTWORK.
- INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND NFPA-90A.
- REFER TO SMACNA "FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS" FOR FIRE DAMPER INSTALLATION DETAILS.
- MOUNTING ANGLES SHALL BE 2" X 2" X 1/8 GA. FOR DAMPERS 48" OR LARGER IN WIDTH OR HEIGHT.
- SLEEVE THICKNESS SHALL NOT BE LESS THAN THE GAUGE OF THE DUCT.
- INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH U.L. 555.
- VERTICAL DAMPER INSTALLATION IS INDICATED, HORIZONTAL MOUNTING IS SIMILAR.
- PROVIDE ACCESS DOOR IN DRYWALL CEILINGS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.
- PROVIDE FIRE DAMPERS AT ALL PENETRATIONS OF WALLS WITH FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS.



**INLINE CENTRIFUGAL FAN INSTALLATION DETAIL**

NOT TO SCALE

**FIRE DAMPER MOUNTING DETAIL**

NOT TO SCALE

**ROOF INTAKE/EXHAUST INSTALLATION DETAIL**

NOT TO SCALE

SEAL & S



Project Title:

TENANT FIT-OUT:  
**POPUP BAGELS**  
661 DRIGGS AVENUE  
BROOKLYN, NY 11211

Revision: Description: Date: Revised By:

Date: 8/20/24 Scale: NONE  
Drawn By: MPB Project Number: 24-119

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**MECHANICAL DETAILS  
SHEET 2**

Sheet Number:

**M-105.00**



**ARCHITECTS  
ENGINEERS  
INTERIORS**

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**HOOD INFORMATION - JOB#6910421**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG			
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL.	SP	END TO END
1	HDI-Kettles	5424 EX-2-PSP-F	ECON-AIR	6' 6"	450 DEG	II	N/A	138	900		4'	10'	900	16SD	-0.222'	765	430 SS WHERE EXPOSED	ALONE	ALONE
2	HD2-Ovens	5424 EX-2-PSP-F	ECON-AIR	10' 4"	450 DEG	II	N/A	138	1425		4'	14'	1425	1333	-0.217'	1282	430 SS WHERE EXPOSED	ALONE	ALONE

**PATENT NUMBERS**  
AC-PSP (UNITED STATES) - US PATENT 7963890 B2  
AC-PSP WALL (CANADA) - CA PATENT 2820509  
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

FOR QUESTIONS, CALL THE  
Air Solutions  
REGION 120  
PHONE: (513) 860 - 5555  
EMAIL: reg120@captiveaire.com

**HOOD INFORMATION**

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)			FIRE SYSTEM	HOOD HANGING PIPING WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	SIZE				MODEL #	SWITCHES QUANTITY			
1	HDI-Kettles	CONDENSATE BAFFLE	4	16"	16"	N/A	3	L55 SERIES E26	NO							NO	460 LBS
2	HD2-Ovens	CONDENSATE BAFFLE	7	16"	16"	N/A	4	L55 SERIES E26	NO	LEFT	12"x54"x24"	SC-22111000	1 LIGHT 1 FAN		NO	673 LBS	

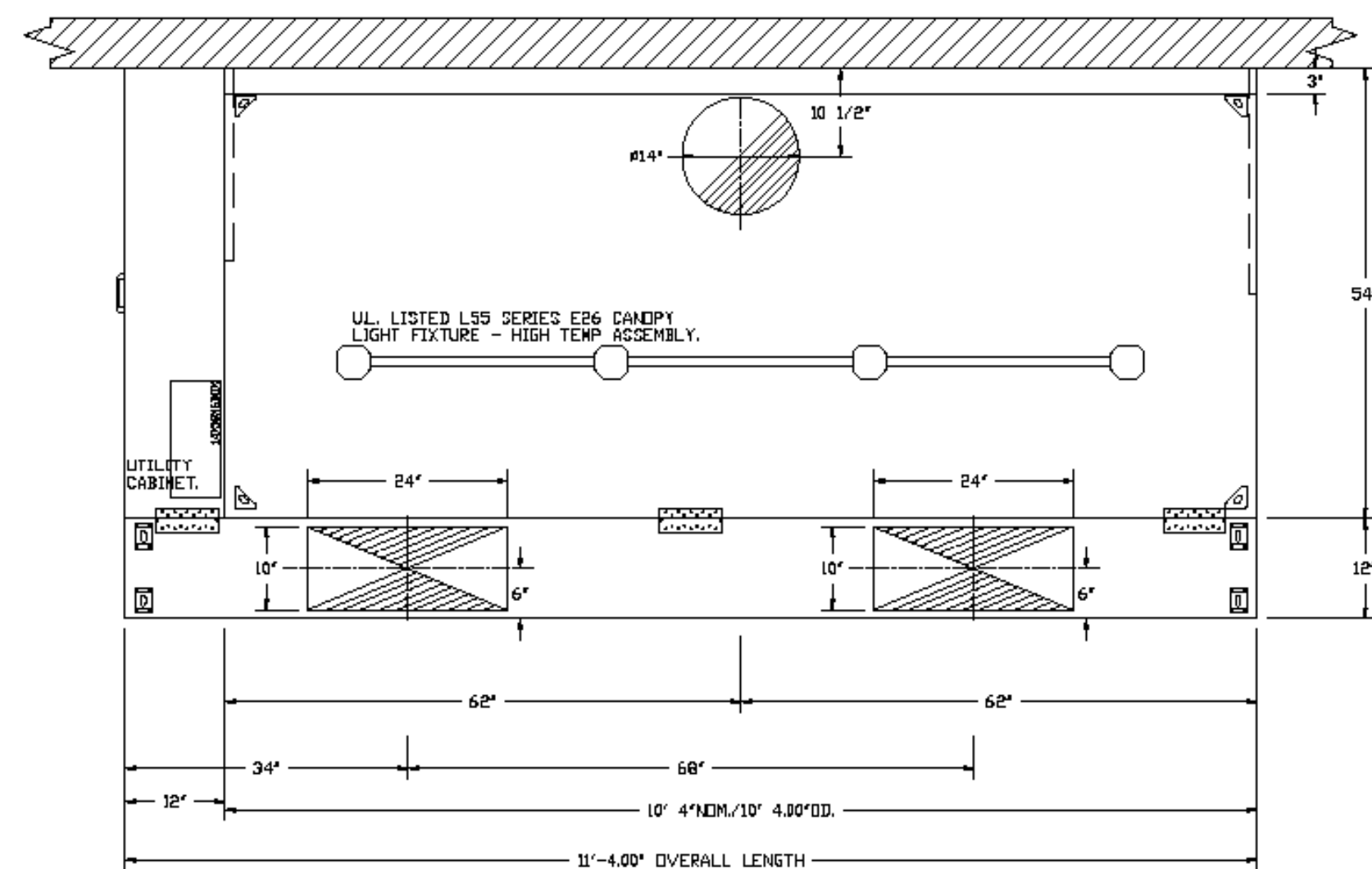
**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1	HDI-Kettles	FIELD WRAPPER 7.00' HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00' HIGH X 78.00' LONG 430 SS VERTICAL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	HD2-Ovens	FIELD WRAPPER 7.00' HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00' HIGH X 136.00' LONG 430 SS VERTICAL.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

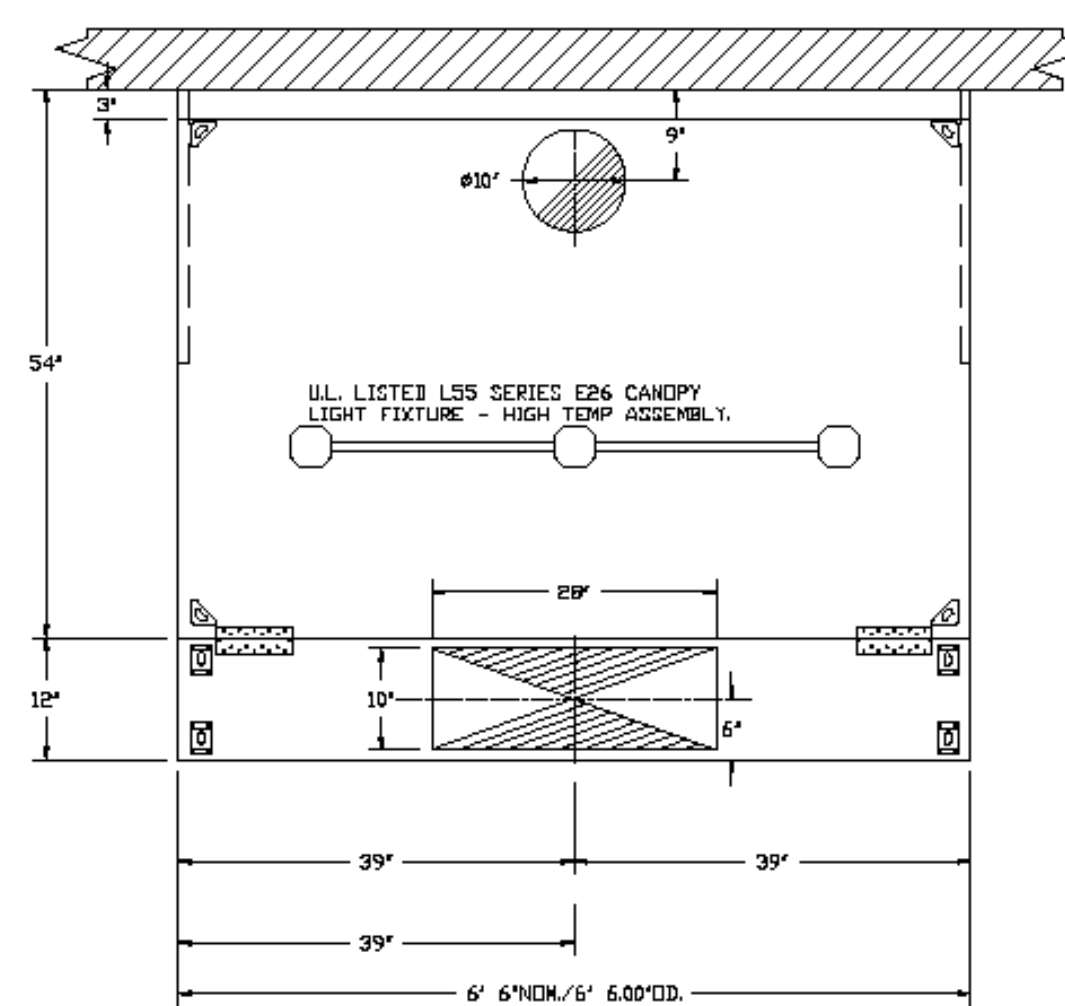
HOOD SYSTEMS IS TYPE 2 APPLICATION (HEAT, ODDR, & FUMES ONLY) APPLICATION. HOOD SUPPLIED WITH CONDENSATE BAFFLES TO ASSIST WITH GOOD FILTER VELOCITY ALONG ENTIRE LENGTH OF HOOD SYSTEM.

**PERFORATED SUPPLY PLENUM(S)**

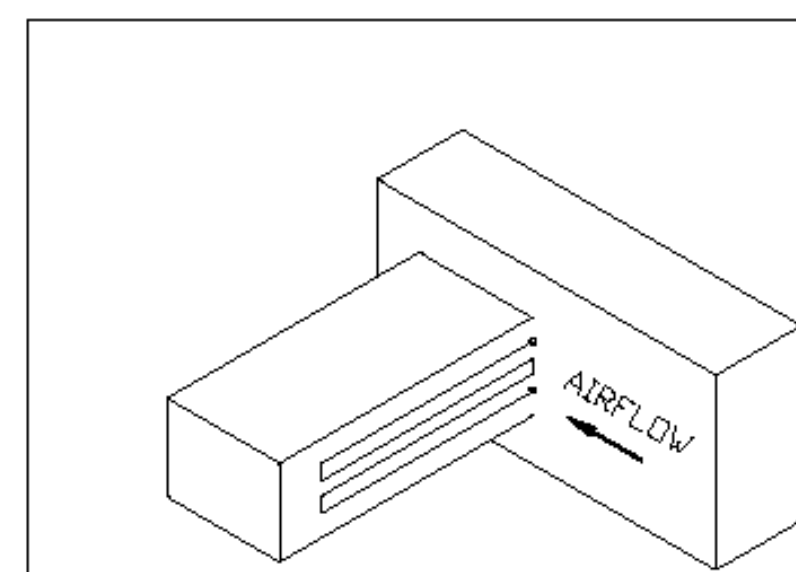
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)		
							WIDTH	LENG	DIA
1	HDI-Kettles	Front	78"	12"	6"	MUA	10"	28"	765
							10"	24"	641
2	HD2-Ovens	Front	136"	12"	6"	MUA	10"	24"	641
							10"	24"	641



PLAN VIEW - HOOD #2 (HD2-Ovens)  
10' 4.00" LONG 5424EX-2-PSP-F

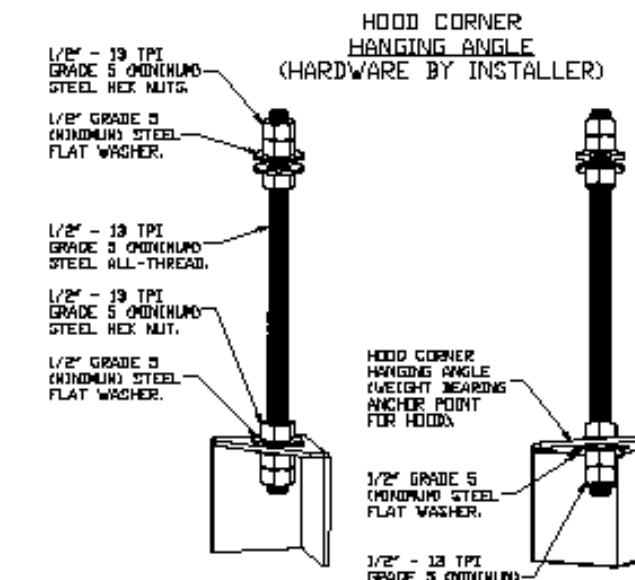


PLAN VIEW - HOOD #1 (HDI-Kettles)  
6' 6.00" LONG 5424EX-2-PSP-F



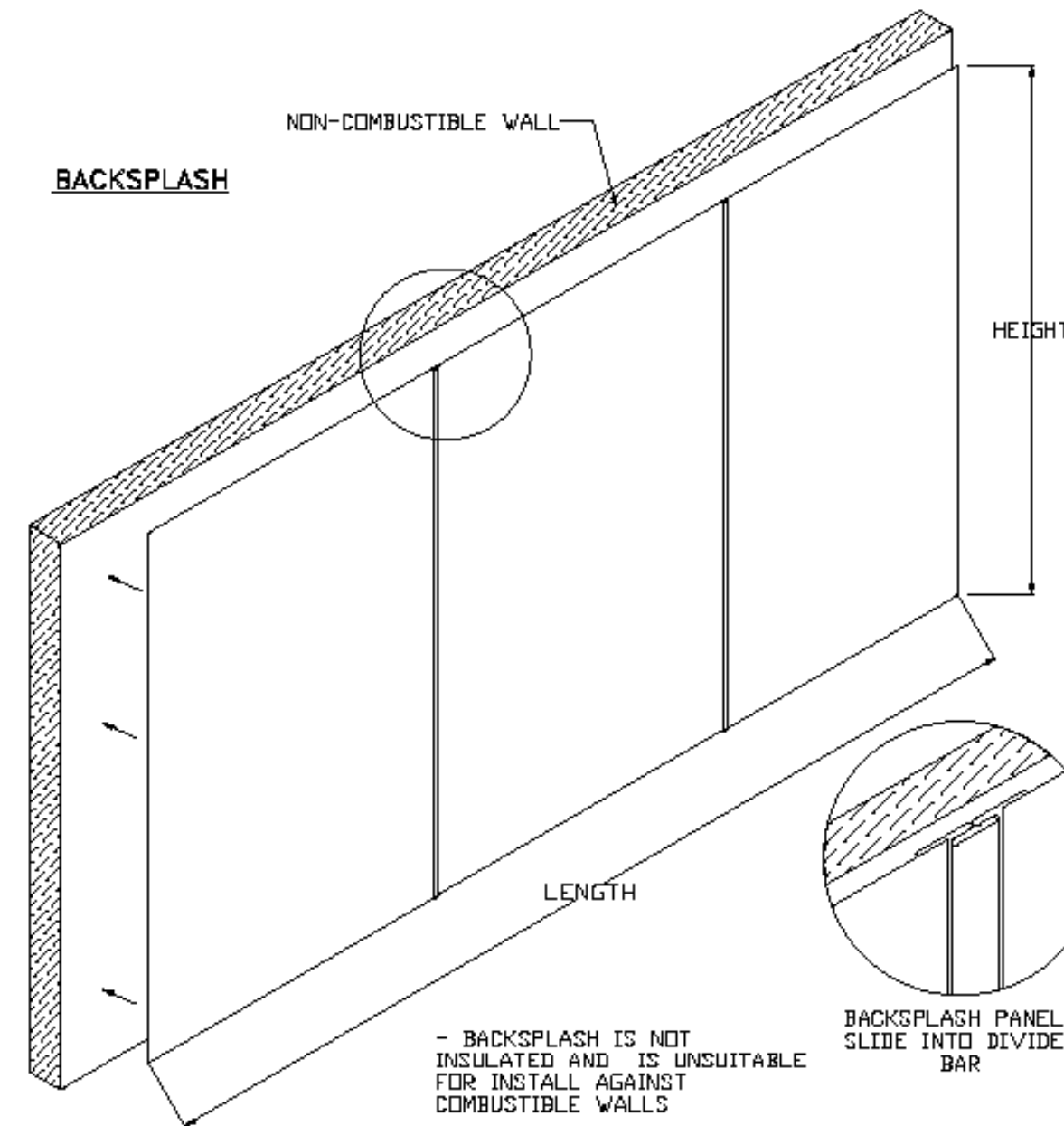
ELECTRIC DUCT

ELECTRIC DUCT INSERT HEATER (INLINE), 2047 CFM, 208 VOLT, 3 PHASE, 26 KW, 2-STAGE HEATER, 72 AMPS AT FLA WITH SIZE 16 X 18 COIL. FLOW SWITCH, AND DUCT THERMOSTAT. SYSTEM TO HEAT AIR AN ADDITIONAL 40 DEGREES MAX (DELTA). ELECTRICIAN ALSO TO PROVIDE EXTERNAL DISCONNECT IF REQUIRED BY LOCAL CODE OFFICIALS.

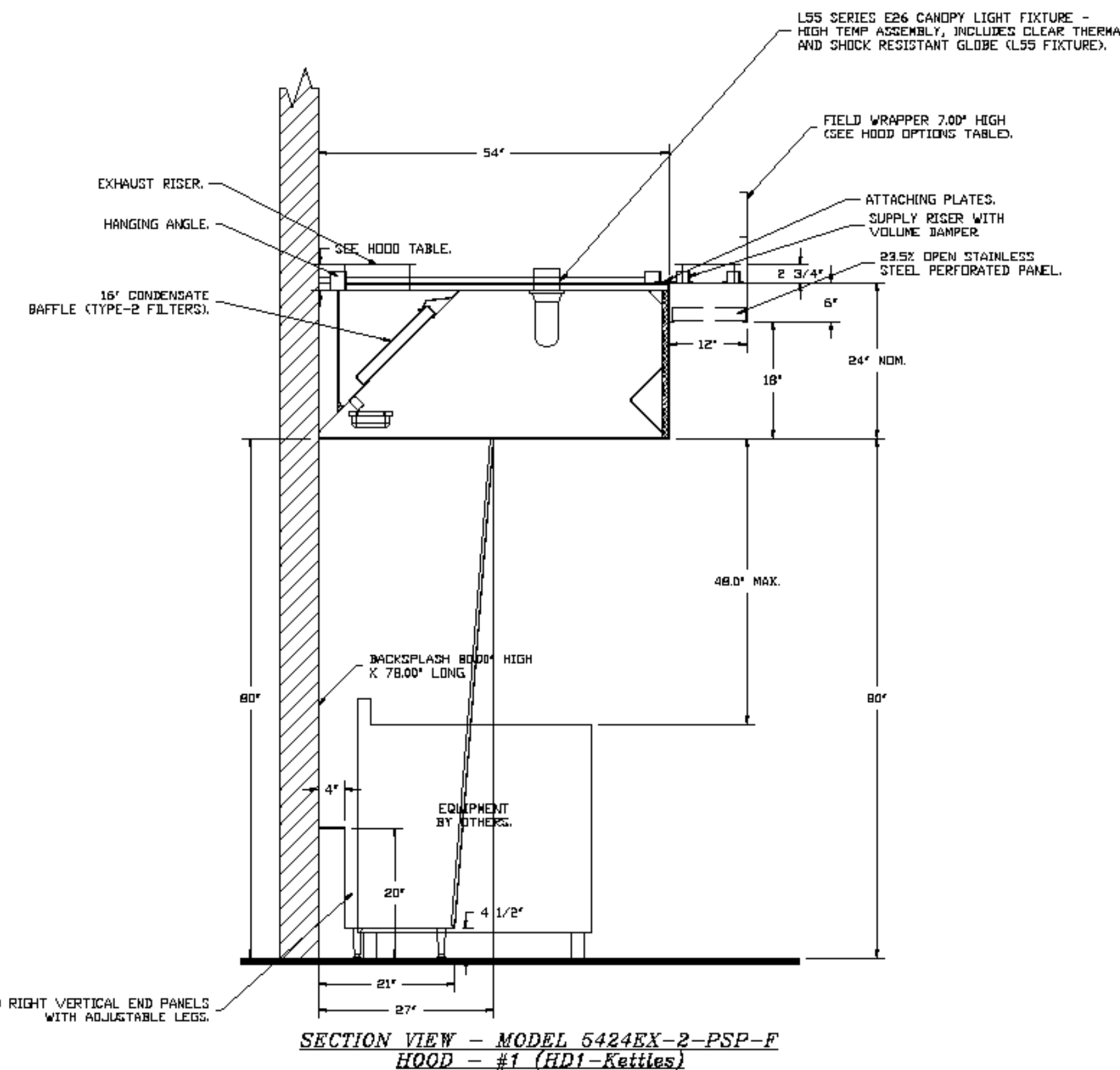


**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS



SECTION VIEW - MODEL 5424EX-2-PSP-F  
HOOD - #1 (HDI-Kettles)

REVISIONS	DESCRIPTION	DATE



Pop Up Bagels (30ven-Proto)  
661 Driggs Avenue,  
Brooklyn, NY, 11211

DATE: 7/30/2024  
DWG.#: 6910421  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 1

SEAL & SIGNATURE:

Project Title:  
**TENANT FIT-OUT:  
POPUK BAGELS  
661 DRIGGS AVENUE  
BROOKLYN, NY 11211**

Revision: Description: Date: Revised By:

Date: 8/20/24 Scale: 12" = 1'-0"  
Drawn By: Project Number: 24-119

Sheet Title:  
**REFERENCE**

Sheet Number:

**M-106.00**



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EXHAUST FAN INFORMATION - JOB#6910421

Table with columns: FAN UNIT NO, TAG, QTY, FAN UNIT MODEL #, MANUFACTURER, CFM, ESP, RPM, MOTOR ENCL, HP, BHP, PHASE, VOLT, FLA, WEIGHT (LBS), SONES. Rows include EF1-KETTLE and EF2-OVEN.

MUA FAN INFORMATION - JOB#6910421

Table with columns: FAN UNIT NO, TAG, QTY, FAN UNIT MODEL #, BLOWER HOUSING, DESIGN CFM, ESP, RPM, MOTOR ENCL, HP, BHP, PHASE, VOLT, FLA, HCA, MDCCP, WEIGHT (LBS), SONES. Row includes KMUA.

FAN OPTIONS

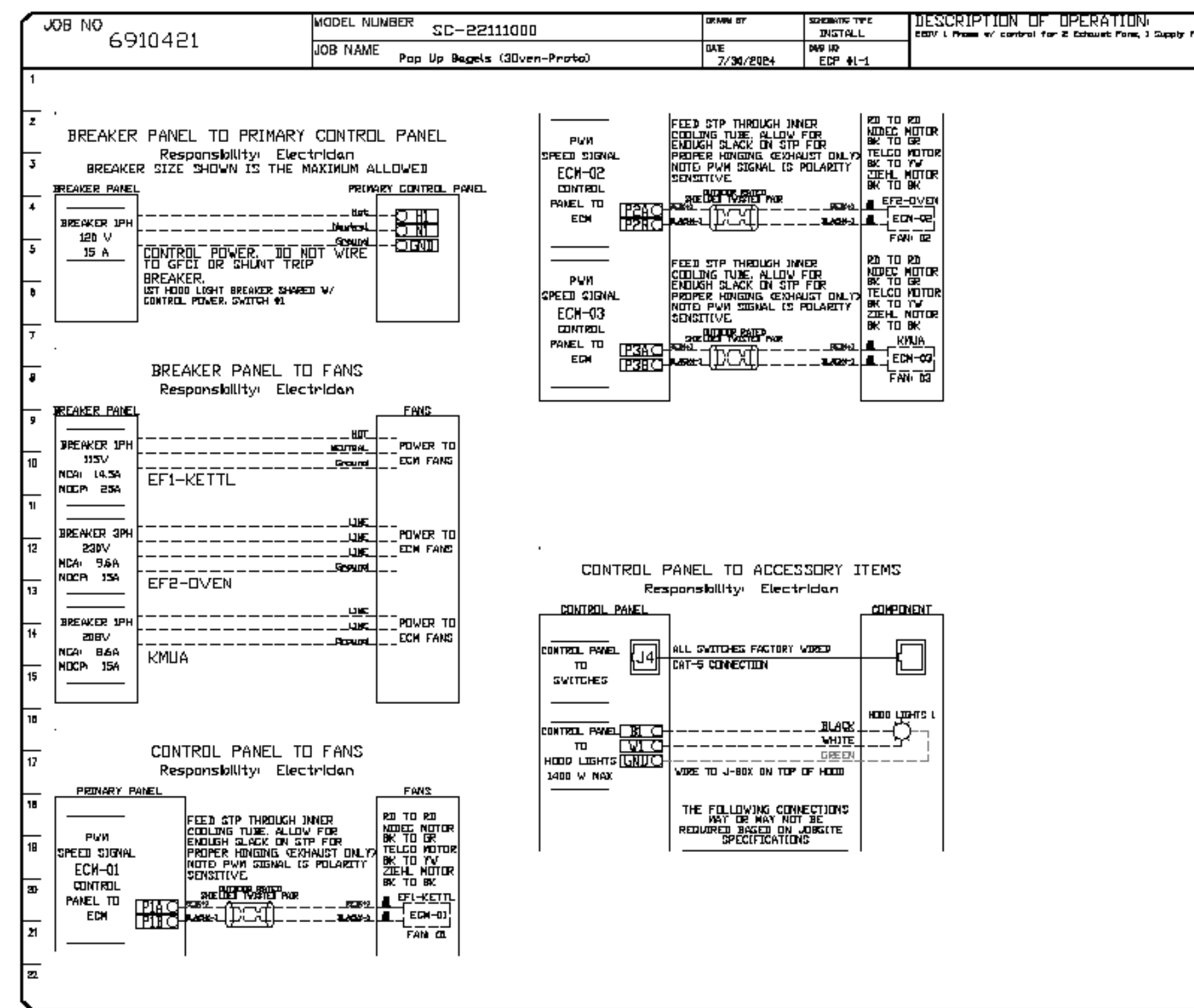
Table with columns: FAN UNIT NO, TAG, QTY, DESCRIPTION. Lists options for EF1-KETTLE, EF2-OVEN, and KMUA.

FAN ACCESSORIES

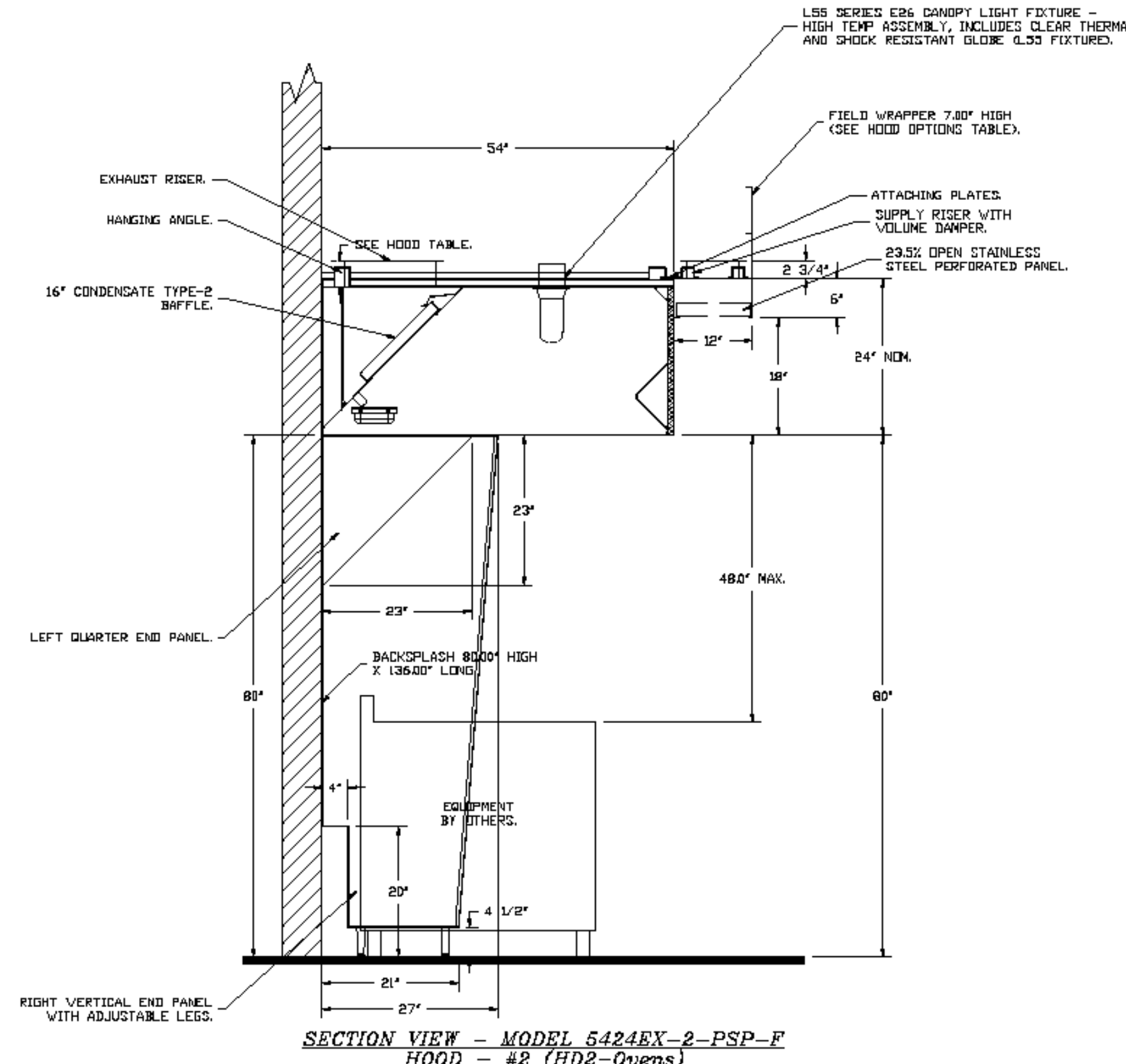
Table with columns: FAN UNIT NO, TAG, EXHAUST, SUPPLY. Lists accessories for EF1-KETTLE, EF2-OVEN, and KMUA.

ELECTRICAL PACKAGE - JOB#6910421

Table with columns: NO, TAG, PACKAGE #, LOCATION, SWITCHES, OPTION, FANS CONTROLLED. Details electrical package components.

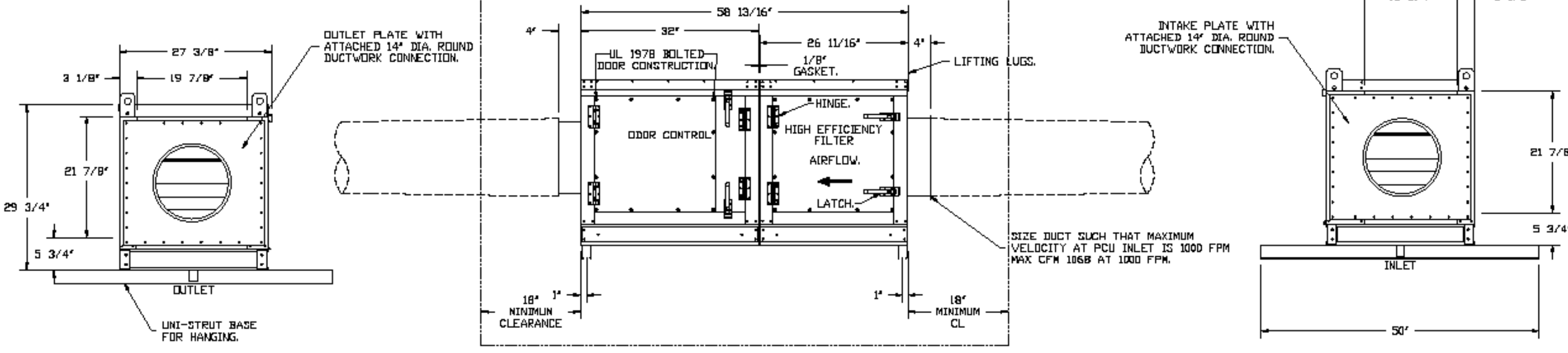


HOOD SYSTEMS IS TYPE 2 APPLICATION (HEAT, ODDOR, & FUMES ONLY) APPLICATION. HOOD SUPPLIED WITH CONDENSATE BAFFLES TO ASSIST WITH GOOD FILTER VELOCITY ALONG ENTIRE LENGTH OF HOOD SYSTEM.



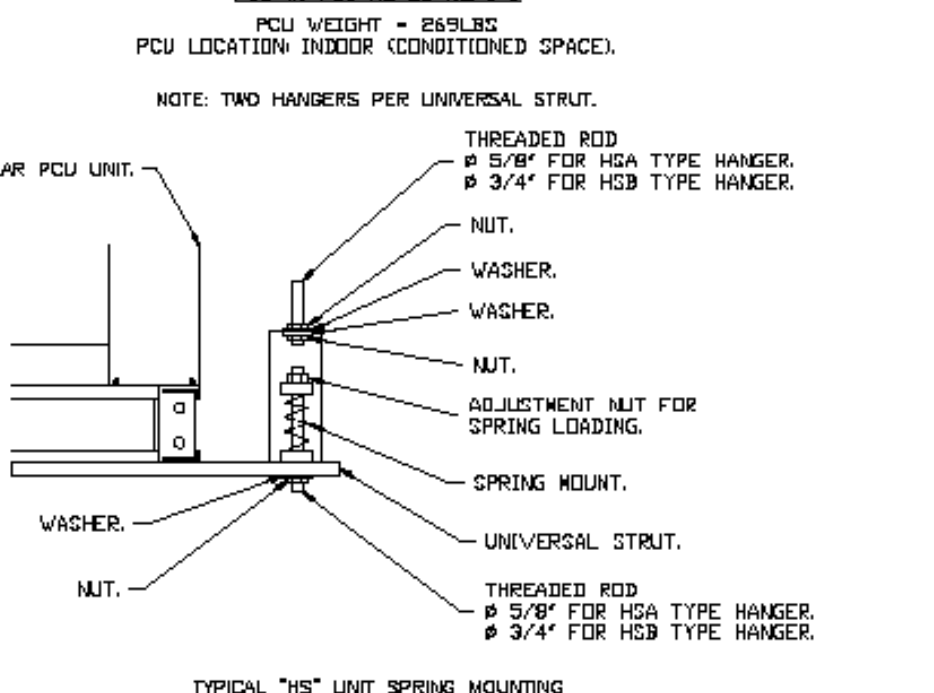
POLLUTION CONTROL UNIT (ODOR CONTROL FOR OVEN HOOD)

PCU #1 - PCU-HE-DC-REFS-1 - POLLUTION CONTROL UNIT FOR ODDOR CONTROL. INCLUDES HIGH EFFICIENCY MERV 15 FILTER MODULE AND ODDOR CONTROL MODULE.



- NOTES: 1. ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES. 2. CLEARANCE ON FILTER ACCESS SIDE OF THE PCU SHOULD BE A MINIMUM OF 36" FOR PROPER SERVICE OF THE UNIT. ALL OTHER CLEARANCES SHOULD FOLLOW CLEARANCE TO COMBUSTIBLE GUIDELINES PER CODE.

PCU FILTER SPECIFICATIONS table with columns: MODULE, FILTER TYPE, FILTER EFFICIENCY, QTY, SIZE, SPEC/LEAK (On W/C). Lists High Efficiency MERV 15 and DC 100% Carbon filters.



- INLET NOTES: 1. MAX INLET DUCT VELOCITY TO BE 1000 FPM INTO THE PCU. DUCTWORK SHOULD BE SIZED APPROPRIATELY. 2. DUCT MUST BE GRADUALLY TRANSITIONED TO THE INLET OPENING OF THE PCU TO SPREAD AIR OUT ON ALL PCU FILTERS. FAILURE TO DO THIS WILL RESULT IN ODDOR AND SMOKE BYPASS.

REVISIONS table, CAPTIVE logo, Air Solutions logo, and project information: Pop Up Bagels (3Doven-Proto), 661 Driggs Avenue, Brooklyn, NY, 11211.

SEAL & SIGNATURE:

Project Title: TENANT FIT-OUT: POPUP BAGELS 661 DRIGGS AVENUE BROOKLYN, NY 11211

DATE: 7/30/2024 DWG.#: 6910421 DRAWN BY: SCALE: 3/4" = 1'-0" MASTER DRAWING

Date: 8/20/24 Scale: 12" = 1'-0" Drawn By: Project Number: 24-119 Sheet Title: REFERENCE

Sheet Number: M-107.00 8 OF 9



ARCHITECTS  
ENGINEERS  
INTERIORS

ARCHITECT:

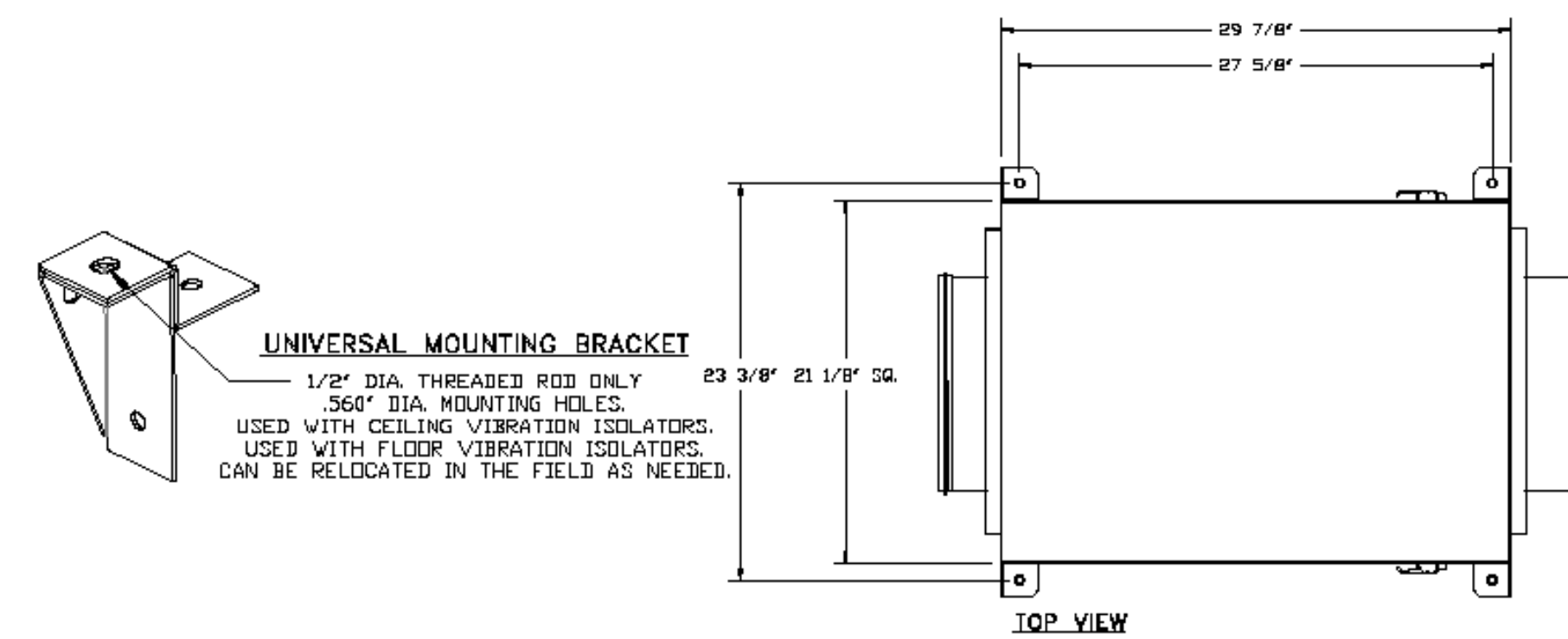
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EXHAUST & SUPPLY FANS FOR TYPE (2) HOOD SYSTEMS

FAN #1 SIF13DD-SS - EXHAUST FAN (EPI-KETTLE)



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
  - TWO ACCESS DOORS FOR EASY ACCESS.
  - BACKWARD INCLINED NON-OVERLOADING WHEELS.
  - UL705 LISTING.
  - AMCA AIR & SOUND CERTIFIED.
  - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
  - 2" NPT THREADED DRAIN CENTERED IN BASE (SS MODELS).

**OPTIONS:**

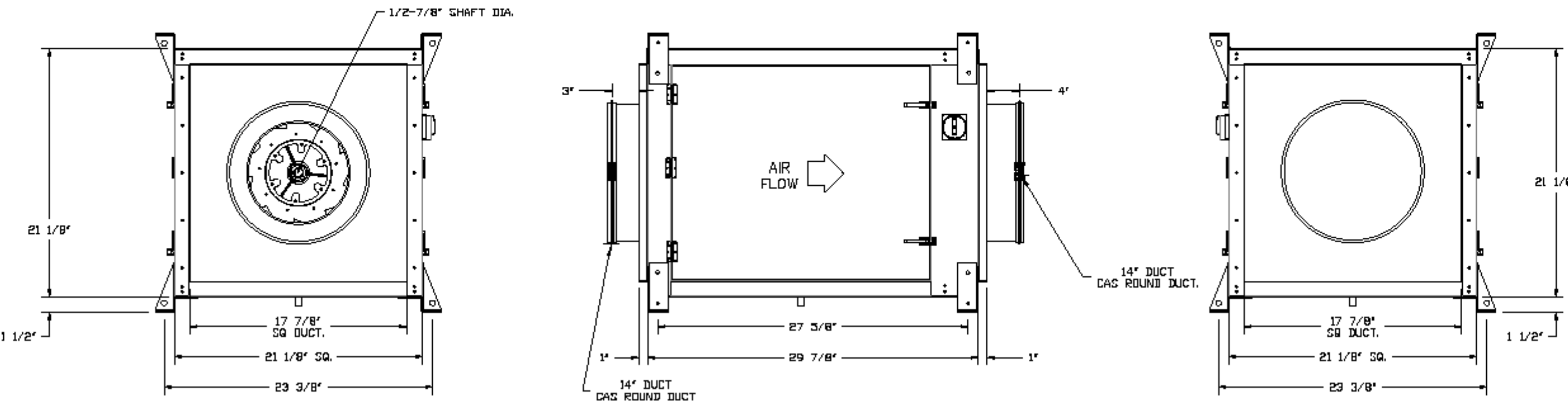
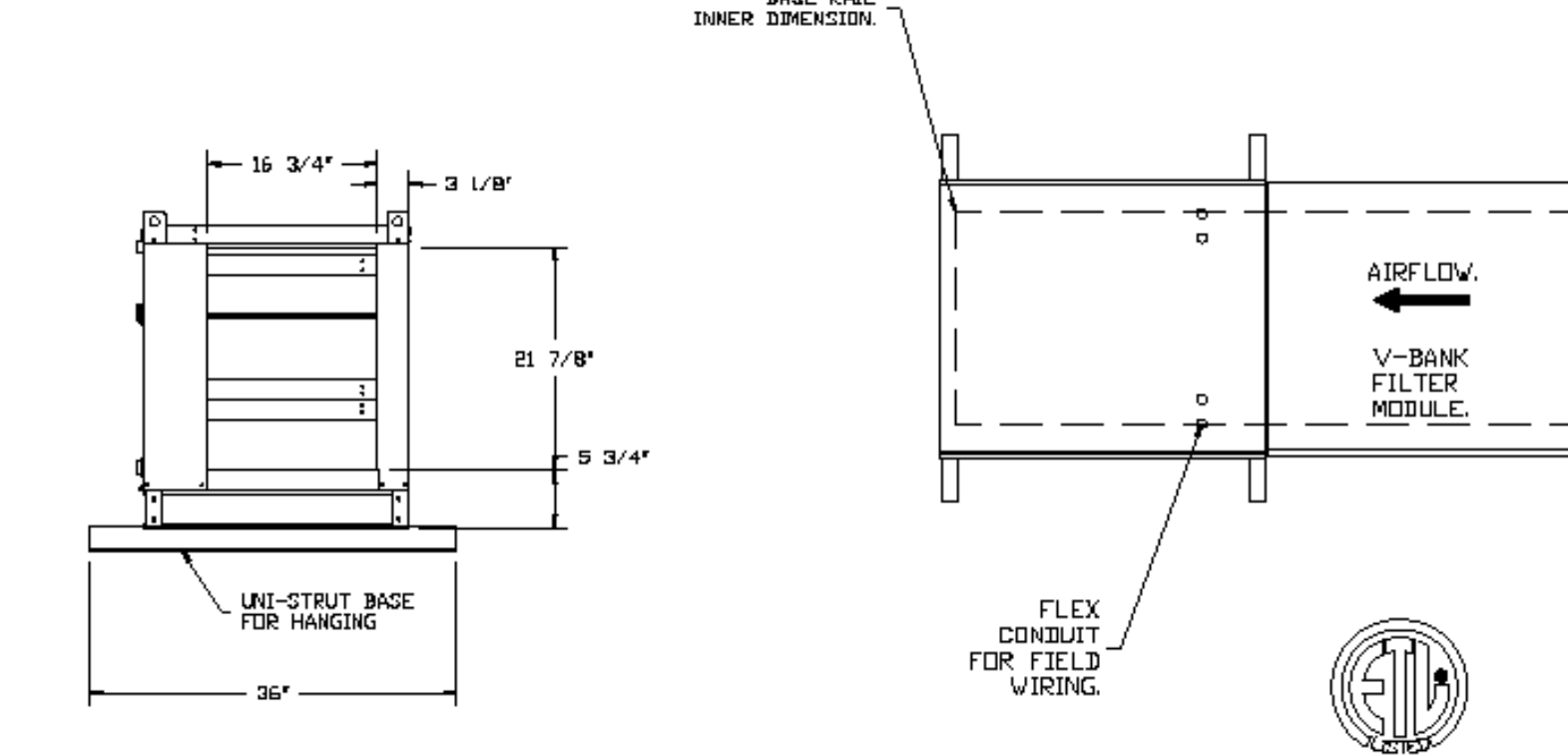
- SIF13 - INLET - STANDARD 14" DUCT CONNECTION.
- SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS (11-36).
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECM03 PREVIRE (TELCO MOTOR), CCM ROTATION.
- HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (HSALES).
- I 23-BDI DAMPER.
- SIF13-SS - STRAIGHT DISCHARGE, STANDARD 14" DUCT CONNECTION.
- 2 YEAR PARTS WARRANTY.

MUA FAN INFORMATION - JOB#6910421

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	NCA	MOCP	WEIGHT (LBS)	SONES
3	KMUA	1	A1-G0	G103	A1	2047	0.300	880	TEAD-ECM	1.000	0.5070	1	208	6.9	9.36	15A	312	18.5

- FAN #3 A1-G00 - SUPPLY FAN (ONMA)
1. DIRECT DRIVE UNTEMPERED SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING WITH SPEED CONTROL, DISCONNECT SWITCH.
  2. V-BANK E2 FILTERS - INDOOR.
  3. SIZE DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. INSULATION FOR V-BANK INTAKE OPTION.
  5. INDOOR HANGING DAMPER FOR THE SIZE 1 UNTEMPERED UNIT, 2 HSALES HANGING ISOLATORS PER UNIT-STRUT INCLUDED.
  6. GRAVITY BACK DRAFT DAMPER, 16" WIDE X 18" HIGH, STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 1 UNTEMPERED FAN HOUSING (SIBM).
  7. ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PWM SIGNAL FROM ECM03 PREVIRE.
  8. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  9. 2 YEAR PARTS WARRANTY.

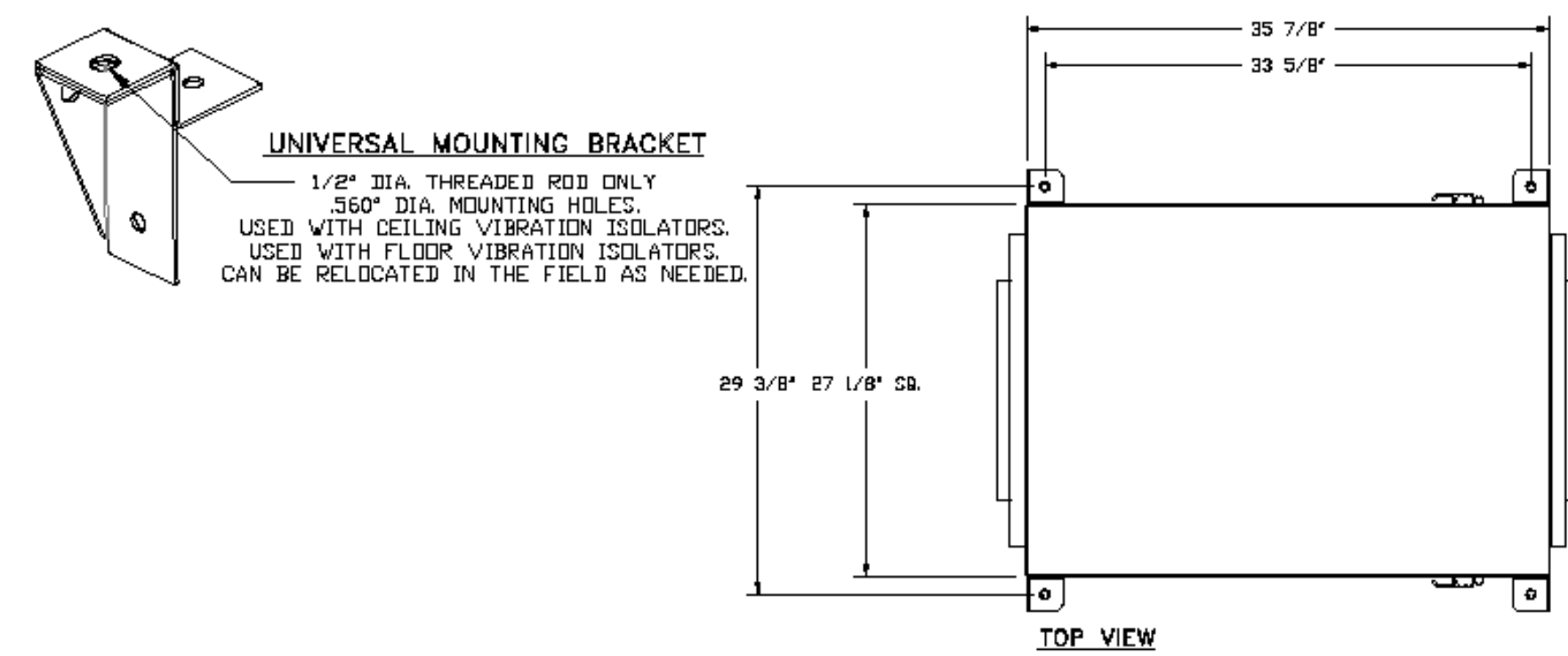
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET IMCA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" X 14".



EXHAUST FAN INFORMATION - JOB#6910421

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	WEIGHT (LBS)	SONES
1	EPI-KETTLE	1	SIF13DD-SS	CAPTIVEAIRE	900	0.850	1327	TEAD-ECM	1.000	0.4200	1	115	11.6	167	8.9
2	EPI-OVEN	1	SIF18DD-HE	CAPTIVEAIRE	1485	2.400	1676	TEAD-ECM	2.000	1.0990	3	230	7.7	270	17.8

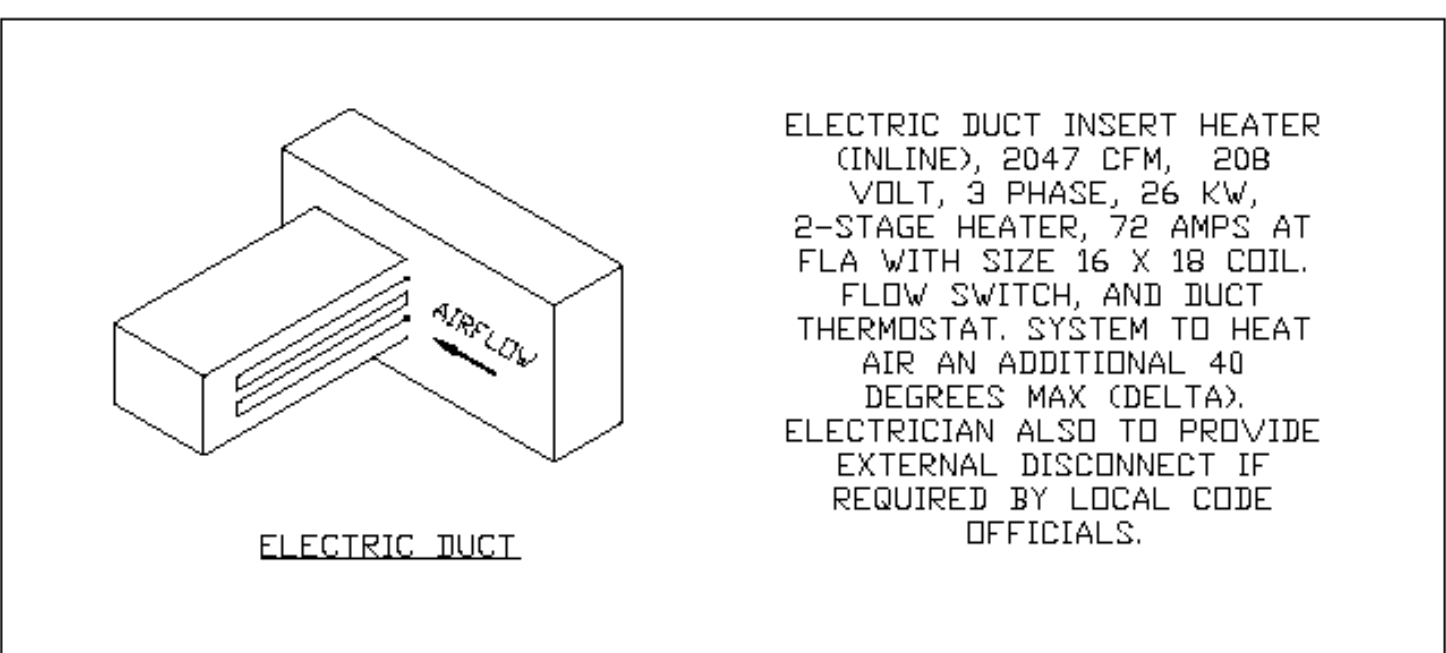
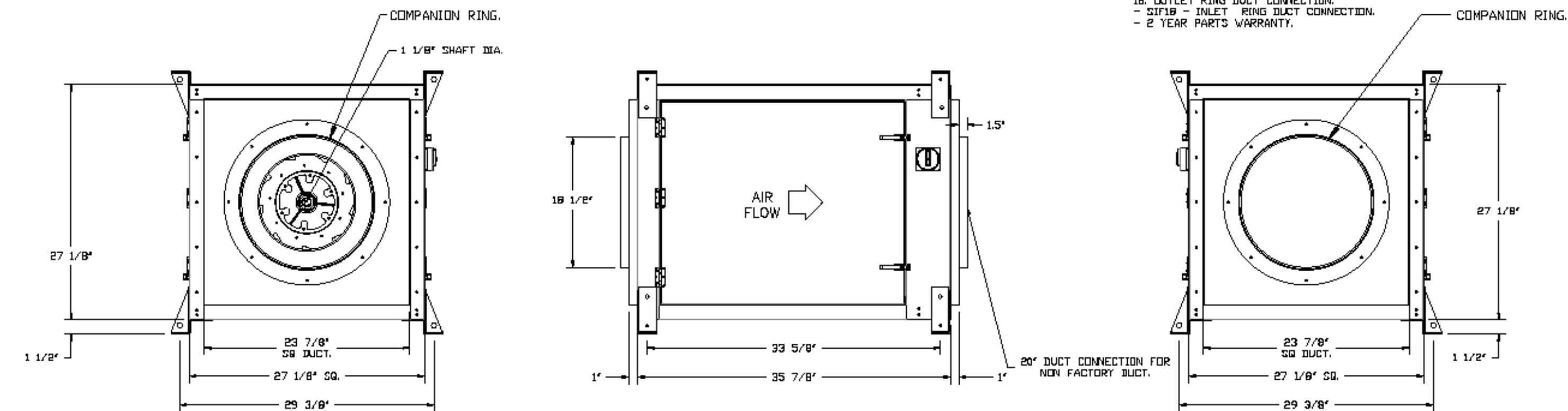
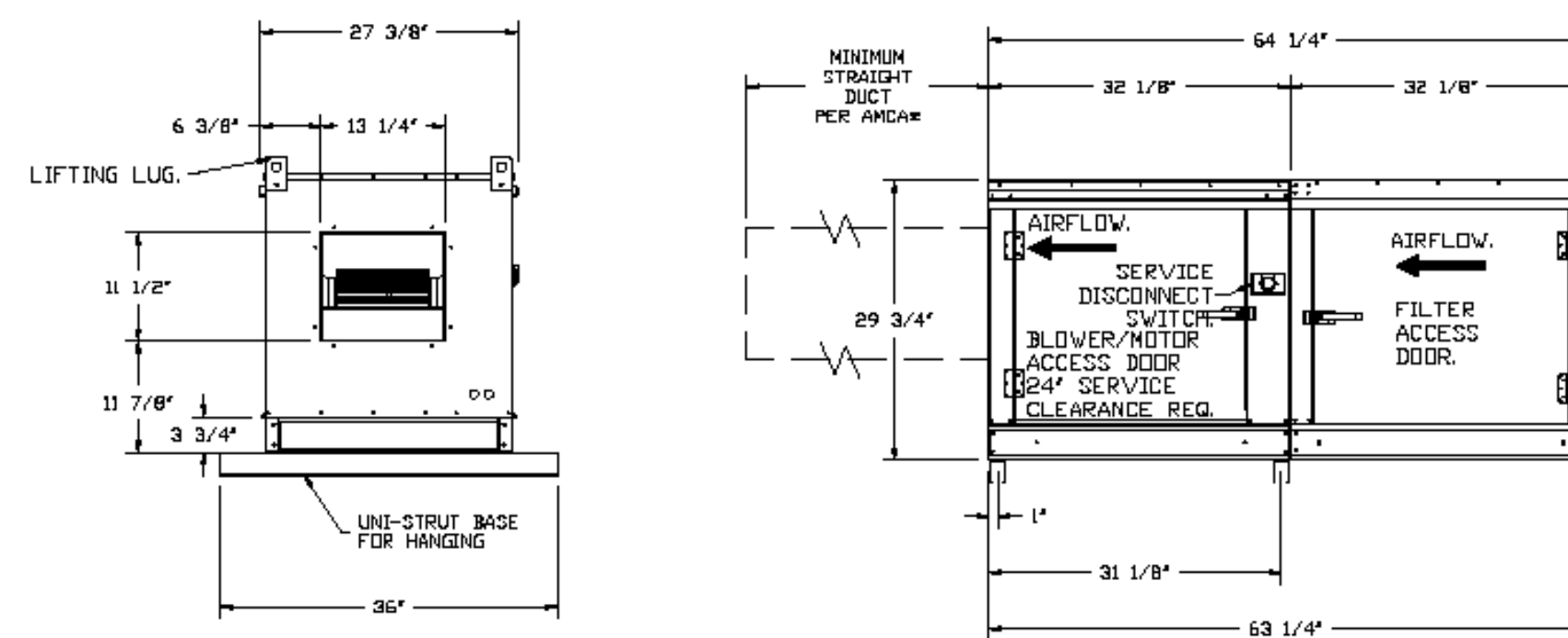
FAN #2 SIF18DD-HE - EXHAUST FAN (EPI-OVEN)



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
  - TWO ACCESS DOORS FOR EASY ACCESS.
  - BACKWARD INCLINED NON-OVERLOADING WHEELS.
  - UL705 LISTING.
  - AMCA AIR & SOUND CERTIFIED.
  - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
  - NEMA 3R SAFETY DISCONNECT SWITCH.

**OPTIONS:**

- SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS (11-36).
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECM03 PREVIRE (TELCO MOTOR), CCM ROTATION.
- SIF18DD & SIF18DD-SS ECM DISCONNECT PLATE SWITCHES SIF18DD FOR SIF18DD-SS DISCONNECT PLATE.
- HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS (HSALES).
- I 23-BDI DAMPER.
- SIF18 - STRAIGHT DISCHARGE FOR 35" IB, OUTLET RING DUCT CONNECTION.
- SIF18 - INLET RING DUCT CONNECTION.
- 2 YEAR PARTS WARRANTY.



ELECTRIC DUCT INSERT HEATER (INLINE), 2047 CFM, 208 VOLT, 3 PHASE, 26 KW, 2-STAGE HEATER, 72 AMPS AT FLA WITH SIZE 16 X 18 COIL, FLOW SWITCH, AND DUCT THERMOSTAT. SYSTEM TO HEAT AIR AN ADDITIONAL 40 DEGREES MAX (DELTA). ELECTRICIAN ALSO TO PROVIDE EXTERNAL DISCONNECT IF REQUIRED BY LOCAL CODE OFFICIALS.

REVISIONS

NO.	DESCRIPTION	DATE

**CAPTIVEAIRE**  
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Pop Up Bagels (3Dven-Proto)  
661 Driggs Avenue,  
Brooklyn, NY, 11211

DATE: 7/30/2024  
DWG.#: 6910421  
DRAWN BY:  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 3

SEAL & SIGNATURE:

Project Title:

TENANT FIT-OUT:  
POPUP BAGELS  
661 DRIGGS AVENUE  
BROOKLYN, NY 11211

Revision: Description: Date: Revised By:

Date: 8/20/24 Scale: 12" = 1'-0"  
Drawn By: - Project Number: 24-119

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