HVAC ABBREVIATIONS

(E)	EXISTING
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OBD	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP

M-SHEET-LIST

NYC APPLICABLE CODES

NYC APPLICABLE CODES:
NYC 2022 BUILDING CODE
NYC 2022 MECHANICAL CODE
NYC 2020 ENERGY CONSERVATION CODE

TR-1 REQUIRED INSPECTIONS

A. MECHANICAL SYSTEMS
B. PROGRESS / FINAL INSPECTIONS

TR-8 REQUIRED INSPECTIONS

A. HVAC-R & SERVICE WATER HEATING EQUIPMENT
B. HVAC-R & SERVICE WATER HEATING SYSTEM CONTROLS
C. HVAC-R & SERVICE WATER PIPING DESIGN AND INSULATION
D. DUCT LEAKAGE TESTING INSULATION AND DESIGN
E. SHUT-OFF DAMPERS
F. MAINTENANCE INFORMATION

ENERGY COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND JUDGMENT, THESE PLANS AND SPECIFICATIONS FOR THIS APPLICATION ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE (NYC ECC).

SCOPE OF WORK

FURNISH AND INSTALL DUCTWORK (INCLUDING CONNECTIONS TO EXISTING EQUIPMENT), DUCT ACCESSORIES, DIFFUSERS AND ALL OTHER MATERIALS, LABOR AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM AS NOTED WITHIN THE DRAWINGS. PROVIDE EXHAUST FANS ON LOW ROOF.

DEPARTEMENT OF BUILDING NOTES:

ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE 2022 BUILDING CODE, CITY OF NEW YORK AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO-DATE. INSPECTIONS AND SIGN-OFF OF COMPLETE WORK SHALL BE MADE PER THE REQUIREMENTS OF THE CITY. THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED WITHIN.

sg

sweetgreen

3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

ENGINEER OF RECORD:

EVERJ ENGINEERING, INC.
1509 BUCK TRAIL LANE
WORTHINGTON, OH 43085
614-349-8054
www.everjengineering.com

STAMP:

NOT FOR CONSTRUCTION

02/21/2025

PROJECT INFORMATION:
PARK SLOPE

PROJECT INFORMATION:
78-76 ST SAINT MARKS AVE
BROOKLYN, NY 11217

DRAWN BY:	BRW
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028

TEMPLATE VERSION: 12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT

MECHANICAL COVER SHEET

1
M-001.01
ENTIRE SHEET

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SECTION 23 00 00 - MECHANICAL GENERAL REQUIREMENTS

PART 1 - GENERAL

1. THE TERM "TENANT," "TENANT'S CONSTRUCTION MANAGER," "OWNER," OR "OWNER'S CONSTRUCTION MANAGER" SHALL REFER TO SWEETGREEN.
2. THE TERM "FURNISH" MEANS TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
3. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM AND AS DESCRIBED IN THESE DRAWINGS.
4. THE GENERAL CONTRACTOR SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS. EACH SUB-CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS ON SITE DURING THE CONSTRUCTION PROCESS.
5. COORDINATE WORK AS REQUIRED WITH THE LANDLORD. THE GENERAL CONTRACTOR SHALL UTILIZE LANDLORD-REQUIRED CONTRACTORS AT THE GENERAL CONTRACTOR'S EXPENSE.

PART 2 - PRODUCTS

1. PRODUCTS SHALL BE AS DESCRIBED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

PART 3 - EXECUTION

1. UNLESS DIMENSIONS HAVE BEEN PROVIDED, THE DRAWINGS ARE DIAGRAMMATIC IN NATURE, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. THEY SHALL NOT BE SCALED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, TENANT VENDORS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUTSHEETS AS REQUIRED.
2. COMPLETE ALL WORK IN COMPLIANCE WITH THE CODES LISTED ON THE ARCHITECTURAL SHEETS INCLUDING ALL LOCAL AMENDMENTS, ALL RELEVANT NFPA CODES AND STANDARDS AND SMACNA STANDARDS.
   - A. VERIFY ALL CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO BID.
   - B. WHEN THERE IS A DISCREPANCY BETWEEN THE ADOPTED CODES AND THESE DRAWINGS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. PROVIDE FIRESTOPPING AND SLEEVES AT ALL COMPONENTS PENETRATING RATED WALLS TO MAINTAIN THE FIRE RATING OF THE EXISTING SHELL SYSTEMS.
4. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AS NECESSARY. PURCHASE PERMITS ASSOCIATED WITH THE WORK AND ARRANGE ALL INSPECTIONS AS REQUIRED.
5. COORDINATE WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, THE REQUIREMENTS OF THE OWNER AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
6. MAINTAIN A CLEAN CONSTRUCTION SITE DURING CONSTRUCTION. CLEAN SCRAP MATERIAL AND REMOVE FROM SITE DAILY AND MAINTAIN WORKING AREA IN AN ORDERLY FASHION.
7. PROVIDE SUBMITTALS AS NOTED IN THESE SPECIFICATIONS AND AS REQUESTED BY THE TENANT'S CONSTRUCTION MANAGER.
   - A. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE TENANT'S CONSTRUCTION MANAGER.
   - B. SHOP DRAWINGS SHALL BE SUBMITTED TO ALLOW FOR FIVE BUSINESS DAYS OF REVIEW TIME WITHOUT IMPACT TO THE PROJECT SCHEDULE.
6. PROVIDE REQUESTS FOR INFORMATION TO THE TENANT'S CONSTRUCTION MANAGER.
   - A. REQUESTS FOR INFORMATION SHALL PROVIDE A DETAILED DESCRIPTION OF THE SITE CONDITION OR DISCREPANCY AND THE CONTRACTORS PROPOSED REMEDY.
   - B. REQUESTS FOR INFORMATION SHALL BE SUBMITTED TO ALLOW FOR FIVE BUSINESS DAYS OF REVIEW TIME.
7. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER WITH A BOUND RECORD OF ALL MECHANICAL EQUIPMENT UTILIZED IN THE JOB. THE GENERAL CONTRACTOR SHALL PROVIDE THE SAME INFORMATION IN AN ELECTRONIC FORMAT AS DIRECTED BY THE OWNER. THE BINDER SHALL CONTAIN:
   - A. COVER SHEET INDICATING THE PROJECT NAME, ADDRESS AND TURNOVER DATE.
   - B. COMPANY NAME AND CONTACT INFORMATION OF THE CONTRACTORS UTILIZED FOR THE MECHANICAL SCOPE OF WORK.
   - C. CUTSHEETS, INSTALLATION MANUALS AND MAINTENANCE REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
8. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER A FULL SET OF DRAWINGS WITH ANY DEVIATIONS FROM THE DRAWINGS INDICATED IN RED INK.

(END OF SECTION 23 00 00)

SECTION 23 05 93 - TESTING, ADJUSTING AND BALANCING FOR HVAC

PART 1 - GENERAL

1. QUALITY ASSURANCE: ALL TESTING AND BALANCING WORK SHALL BE COMPLETED BY AN INDEPENDENT CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE, CERTIFIED BY NEBB OR TABB AS A T&B TECHNICIAN. BALANCE THE SYSTEM IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS.

PART 2 - PRODUCTS: N/A

PART 3 - EXECUTION

1. AIR SYSTEMS
   - A. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO BALANCE THE SYSTEM AS NOTED ON THE PLANS.
   - B. FAN SYSTEMS SHALL BE ADJUSTED SUCH THAT THE LOWEST FAN SPEED IS UTILIZED TO DELIVER THE REQUIRED CFM TO THE AIR TERMINALS.
   - C. ADJUST DAMPERS AS REQUIRED TO BALANCE THE SUPPLY, RETURN AND EXHAUST DEVICES TO 10% OF THE DESIGN RATES. ADJUST THE OUTSIDE AIR DAMPER AS REQUIRED TO OBTAIN THE MINIMUM OUTSIDE AIR REQUIREMENTS AS NOTED IN THE SCHEDULES.
   - D. RECORD THE OPERATING VOLTAGE, AMPACITY, SUPPLY/RETURN SYSTEM STATIC PRESSURES, SUPPLY/MIXED AIR TEMPERATURES (BOTH HEATING AND COOLING) AND FINAL FAN RPM.
   - E. VERIFY SYSTEM CONTROLS ARE FUNCTIONING AS INTENDED.
2. WATER SYSTEMS
   - A. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO BALANCE THE SYSTEM AS NOTED ON THE PLANS.
   - B. ADJUST BALANCING VALVES AS REQUIRED TO ACHIEVE A WATER FLOW WITHIN 5% OF THE DESIGN VALUE.
   - C. RECORD THE OPERATING FLOW RATE, WATER SUPPLY/RETURN TEMPERATURE CONDITIONS AND PRESSURE DROP ACROSS THE COIL.
   - D. VERIFY SYSTEM CONTROLS ARE FUNCTIONING AS INTENDED.
3. REPORTING
   - A. THE TEST AND BALANCE AGENT SHALL PREPARE A REPORT INCLUDING THE FINAL VALUES OF THE AIR AND WATER SYSTEM BALANCING, SYSTEM DIAGRAMS, AND SYSTEM NOTES.
   - B. THE GENERAL CONTRACTOR SHALL REVIEW THE FINAL BALANCE REPORT PRIOR TO SENDING TO THE TENANT'S CONSTRUCTION MANAGER.
   - C. PROVIDE T&B REPORT TO THE LANDLORD AND THE AUTHORITY HAVING JURISDICTION AS REQUIRED.

(END OF SECTION 23 05 93)

SECTION 23 07 13 - DUCT INSULATION

PART 1 - GENERAL

1. INSULATION SHALL BE PROVIDED ON THE FOLLOWING DUCT SERVICES:
   - A. INDOOR, CONCEALED SUPPLY AND OUTDOOR AIR.
   - B. INDOOR, CONCEALED RETURN.
   - C. INDOOR, CONCEALED OVEN AND WAREWASH EXHAUST FROM AIR TERMINAL TO PENETRATION OF BUILDING EXTERIOR.
   - D. INDOOR, CONCEALED GENERAL EXHAUST FROM AIR TERMINAL TO PENETRATION OF BUILDING EXTERIOR.
   - E. OUTDOOR, SUPPLY AND RETURN.
2. QUALITY ASSURANCE
   - A. INSULATION INSTALLED INDOORS SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.
   - B. INSULATION INSTALLED OUTDOORS SHALL HAVE A FLAME-SPREAD INDEX OF 75 OR LESS, AND SMOKE-DEVELOPED INDEX OF 150 OR LESS.

PART 2 - PRODUCTS

1. INTERIOR DUCTWORK SHALL HAVE FLEXIBLE FIBERGLASS DUCT WRAP LAMINATED TO FOIL REINFORCED KRAFT VAPOR BARRIER FACING WITH 2" STAPLING FLANGE AND AN INSTALLED THICKNESS OF 1-1/2" WITH AN R-VALUE OF 6.0.
2. EXTERIOR DUCTWORK SHALL BE INSULATED WITH 2" THICK RIGID INSULATION WITH A MINIMUM R-VALUE OF 12.0, PROTECTED WITH ROOFING MEMBRANE.

PART 3 - EXECUTION

1. PREPARATION: CLEAN AND DRY SURFACES. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION.
2. GENERAL INSTALLATION REQUIREMENTS:
   - A. INSTALL INSULATION ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   - B. INSTALL INSULATION AND ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF DUCT AND FITTINGS.
   - C. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE. ACCESSORIES SHALL NOT CORRODE, SOFTEN OR OTHERWISE ATTACK INSULATION OR JACKET IN EITHER WET OR DRY STATE.
   - D. INSTALL INSULATION WITH LONGITUDINAL SEAMS AT TOP OF HORIZONTAL RUNS. LONGITUDINAL SEAMS AND END JOINTS SHALL BE TIGHT. BOND SEAMS AND JOINTS WITH ADHESIVE RECOMMENDED BY INSULATION MANUFACTURER TO MAINTAIN VAPOR BARRIER INTEGRITY.
   - E. APPLY ADHESIVES, MASTICS AND SEALANTS AT MANUFACTURER'S RECOMMENDED COVERAGE RATE.
   - F. CUT INSULATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT ITS NOMINAL THICKNESS.
3. PENETRATIONS
   - A. ROOF PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH ROOF PENETRATIONS. FOR APPLICATIONS REQUIRING ONLY INDOOR INSULATION, TERMINATE INSULATION ABOVE ROOF SURFACE AND SEAL WITH JOINT SEALANT. FOR APPLICATIONS REQUIRING INDOOR AND OUTDOOR INSULATION, INSTALL INSULATION FOR OUTDOOR APPLICATIONS TIGHTLY JOINED TO INDOOR INSULATION ENDS. SEAL JOINT WITH JOINT SEALANT.
   - B. WALL PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH WALL PENETRATIONS. FOR APPLICATIONS REQUIRING ONLY INDOOR INSULATION, TERMINATE INSULATION OUTSIDE OF WALL SURFACE AND SEAL WITH JOINT SEALANT. FOR APPLICATIONS REQUIRING INDOOR AND OUTDOOR INSULATION, INSTALL INSULATION FOR OUTDOOR APPLICATIONS TIGHTLY JOINED TO INDOOR INSULATION ENDS. SEAL JOINT WITH JOINT SEALANT.
   - C. INTERIOR WALLS: INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS THAT ARE NOT FIRE RATED. TERMINATE INSULATION AT FIRE DAMPER SLEEVES FOR FIRE-RATED WALL AND PARTITION PENETRATIONS. EXTERNALLY INSULATE THE DAMPER SLEEVES TO MATCH ADJACENT INSULATION AND OVERLAP DUCT INSULATION AT LEAST 2 INCHES.

(END OF SECTION 23 07 13)

SECTION 23 31 13 - METAL DUCTS

PART 1 - GENERAL

1. SECTION INCLUDES
   - A. RECTANGULAR DUCTS AND FITTINGS
   - B. ROUND DUCTS AND FITTINGS
   - C. DOUBLE-WALL DUCTWORK AND FITTINGS
   - D. FLAT-OVAL DUCTS AND FITTINGS
   - E. SHEET METAL MATERIALS
   - F. SEALANTS AND GASKETS
   - G. HANGERS AND SUPPORTS
2. PERFORMANCE REQUIREMENTS
   - A. DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESS, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS AND HANGERS/SUPPORTS SHALL COMPLY WITH THE LATEST VERSION OF SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."
   - B. DUCT HANGERS AND SUPPORTS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND STRESSES WITHIN LIMITS UNDER CONDITIONS DESCRIBED IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."
   - C. SURFACES IN CONTACT WITH THE AIRSTREAM SHALL COMPLY WITH REQUIREMENTS IN ANSI/ASHRAE 62.1.
3. SECTION REQUIREMENTS
   - A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS

1. RECTANGULAR DUCTS AND FITTINGS:
   - A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" BASED ON INDICATED STATIC-PRESSURE CLASS UNLESS NOTED OTHERWISE.
   - B. TRAVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-1 FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS AND OTHER PROVISIONS AS REQUIRED.
   - C. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-2 FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS AND OTHER PROVISIONS AS REQUIRED.
   - D. ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION: SELECT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 4 FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS AND OTHER PROVISIONS AS REQUIRED.
2. ROUND DUCTS AND FITTINGS:
   - A. SPIRAL LOCK SEAM, WITHOUT INSULATION.
   - B. BASIS OF DESIGN: LINDAB SAFE SINGLE WALL DUCTS AND FITTINGS. ALTERNATES BY MCGILL AIRFLOW. ALL DUCTWORK SHALL BE PREPPED AND READY TO RECEIVE PAINT.
3. FLAT-OVAL DUCTS AND FITTINGS
   - A. SPIRAL LOCK SEAM, WITHOUT INSULATION.
   - B. BASIS OF DESIGN: LINDAB FOSR FLAT-OVAL SPIRAL DUCTS AND FITTINGS. ALTERNATES BY MCGILL AIRFLOW. ALL DUCTWORK SHALL BE PREPPED AND READY TO RECEIVE PAINT.
4. DOUBLE-WALL DUCTWORK AND FITTINGS
   - A. SPIRAL LOCK SEAM, WITH 1" INSULATION THICKNESS.
   - B. BASIS OF DESIGN: LINDAB SAFE DOUBLE WALL DUCTS AND FITTINGS. ALTERNATES BY MCGILL AIRFLOW.ALL DUCTWORK SHALL BE PREPPED AND READY TO RECEIVE PAINT.
4. MATERIALS: GALVANIZED SHEET STEEL. COMPLY WITH ASTM A 653/A 653M. G90 COATING DESIGNATION.
5. SEALANTS AND GASKETS:
   - A. MAXIMUM FLAME-SPREAD INDEX: 25 (WHEN TESTED ACCORDING TO UL 723).
   - B. MAXIMUM SMOKE-DEVELOPED INDEX: 50 (WHEN TESTED ACCORDING TO UL 723).
   - C. TWO-PART TAPE SEALING SYSTEM: PROVIDE 3" TAPE CONSTRUCTED OF WOVEN COTTON FIBER IMPREGNATED WITH MINERAL GYPSUM AND MODIFIED ACRYLIC/SILICONE TO FORM A HARD, DURABLE AIRTIGHT SEAL. SEALANT SHALL BE A MODIFIED STYRENE ACRYLIC. COMPATIBLE WITH GALVANIZED SHEET STEEL. WATER, MOLD AND MILDEW RESISTANT. VOC CONTENT OF 250g/L OR LESS.
   - D. WATER BASED JOINT AND SEAM SEALANT: BRUSH ON WITH MINIMUM OF 65% SOLIDS CONTENT. MINIMUM SHORE A HARDNESS OF 20. COMPATIBLE WITH GALVANIZED SHEET STEEL. WATER, MOLD AND MILDEW RESISTANT. VOC CONTENT OF 75g/L (LESS WATER).
6. HANGERS AND SUPPORT:
   - A. RECTANGULAR DUCTWORK: HANGER RODS SHALL BE CADMIUM-PLATED STEEL RODS AND NUTS. STRAP AND ROD SIZE SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," TABLE 5-1. SECURE TO DUCT WITH SHEET METAL SCREWS COMPATIBLE WITH DUCT MATERIALS.
   - B. ROUND DUCTWORK: SUPPORT WITH AIRCRAFT CABLE COMPLYING WITH ASTM A 603. CONNECT ENDS WITH CADMIUM-PLATED STEEL ASSEMBLIES WITH BRACKETS, SWIVEL AND BOLTS DESIGNED FOR DUCT HANGER SERVICE.
   - C. EXTERIOR DUCTWORK SHALL BE PROVIDED WITH DUCT SUPPORTS, SPACED PER THE MANUFACTURER'S RECOMMENDATIONS.

PART 3 - EXECUTION

1. INSTALLATION
   - A. DRAWING PLANS, SCHEMATICS AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCTWORK ROUTING. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES AND EXISTING CONDITIONS. ACCOMMODATE DUCT HANGER, RODS, INSULATION AND OTHER REQUIREMENTS AS REQUIRED.
   - B. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF THE INTERNAL FREE AREA.
   - C. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" IN MAXIMUM PRACTICAL LENGTHS WITH FEWEST POSSIBLE JOINTS.
   - D. UNLESS NOTED OTHERWISE, INSTALL DUCTS PARALLEL AND PERPENDICULAR TO BUILDING LINES.
   - E. INSTALL DUCTS WITH CLEARANCES AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF INSULATION.
   - F. INSTALLATION OF EXPOSED DUCTWORK: PROTECT DUCTWORK FROM DAMAGE. REPAIR/REPLACE ALL DAMAGED SECTIONS AND FINISHED WORK. TRIM SEALANTS FLUSH WITH METAL. CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. DO NOT USE TWO-PART TAPING SYSTEM. MAINTAIN CONSISTENCY, SYMMETRY AND UNIFORMITY IN THE INSTALLATION.
2. ALL DUCT COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL UNTIL THE FINAL START-UP OF THE HEATING COOLING AND VENTILATION EQUIPMENT.
3. DUCT SEALING: CONSTRUCT DUCTS WITH 2 INCH POSITIVE AND NEGATIVE DUCT PRESSURE CLASSIFICATIONS. CONSTRUCT TO SMACNA SEAL CLASS A.
4. HANGER AND SUPPORT INSTALLATION: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 5. HANGERS EXPOSED TO VIEW SHALL BE AIRCRAFT IN ACCORDANCE WITH THE MECHANICAL DETAILS.
5. CONNECTIONS: MAKE CONNECTIONS TO EQUIPMENT WITH FLEXIBLE CONNECTORS COMPLYING WITH SECTION 23 33 00 "AIR DUCT ACCESSORIES." COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR BRANCH, OUTLET AND INLET, AND TERMINAL UNIT CONNECTIONS.
6. CLEANING: CLEAN ALL EXISTING DUCTWORK TO REMAIN PRIOR TO TESTING, ADJUSTING AND BALANCING. REMOVE ALL SURFACE CONTAMINANTS AND DEPOSITS ON AIR OUTLETS AND INLETS PRIOR TO PUNCH.
7. PROVIDE AIR BALANCE IN ACCORDANCE WITH SECTION 23 05 93 "TESTING, ADJUSTING, AND BALANCING FOR HVAC."
8. DUCT ELBOWS
   - A. RECTANGULAR: PROVIDE MITERED ELBOWS WITH HOLLOW-FORMED, DOUBLE-THICKNESS TURNING VANES OR RADIUSED ELBOWS WITH INSIDE RADIUS NO SMALLER THAN 1/2 OF THE DUCT WIDTH.
   - B. ROUND DUCT ELBOWS: PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS NO SMALLER THAN 1/2 OF THE DUCT WIDTH.
9. BRANCH CONFIGURATION
   - A. RECTANGULAR: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 4-6. RECTANGULAR MAIN TO RECTANGULAR BRANCH SHALL BE A 45-DEGREE ENTRY. RECTANGULAR MAIN TO ROUND BRANCH SHALL BE A SPIN-IN FITTING.
   - B. ROUND: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-5 AND FIGURE 3-6. PROVIDE 90 DEGREE TAP.

(END OF SECTION 23 31 13)

SECTION 23 33 00 - AIR DUCT ACCESSORIES

PART 1 - GENERAL

1. SECTION INCLUDES
   - A. BACKDRAFT AND PRESSURE RELIEF DAMPERS
   - B. MANUAL VOLUME DAMPERS
   - C. CONTROL DAMPERS
   - D. FIRE DAMPERS
   - E. TURNING VANES
   - F. FLEXIBLE CONNECTORS
   - G. DUCT ACCESSORY HARDWARE
2. SECTION REQUIREMENTS
   - A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS

1. COMPLY WITH NFPA 90A AND WITH NFPA 90B.
2. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, THICKNESS AND DUCT CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. SHEET METAL MATERIALS SHALL BE FREE FROM PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS AND OTHER IMPERFECTIONS.
3. GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653/A 653M. G90 COATING DESIGNATION.
4. BACKDRAFT AND PRESSURE RELIEF DAMPERS: GRAVITY BALANCED. AS SPECIFIED ON THE PLANS.
5. MANUAL VOLUME DAMPERS: STANDARD LEAKAGE RATING WITH LINKAGE OUTSIDE OF AIRFRAME. SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS
   - A. FRAME: HAT SHAPED WITH MITERED AND WELDED CORNERS. FLANGELESS FRAMES FOR INSTALLING IN DUCTS.
   - B. BLADES: RECTANGULAR DAMPERS SHALL BE MULTIPLE BLADES WITH OPPOSED-BLADE DESIGN. ROUND DAMPERS SHALL BE SINGLE BLADE.
   - C. BLADE AXLES: GALVANIZED STEEL.
   - D. BEARINGS: MOLDED SYNTHETIC.
   - E. TIE BARS AND BRACKETS: GALVANIZED STEEL.
   - F. JACKSHAFT: 1/2" DIAMETER CONSTRUCTED OF GALVANIZED STEEL WITHIN PIPE-BEARING ASSEMBLY WITH SUPPORTS. LENGTH AND NUMBER OF MOUNTINGS AS REQUIRED.
   - G. HARDWARE: ZINC-PLATED, DIE CAST CORE WITH DIAL HANDLE AND A LOCKING NUT.
6. CONTROL DAMPERS
   - A. FRAME: HAT SHAPED WITH MITERED AND WELDED CORNERS. FLANGELESS FRAMES FOR INSTALLING IN DUCTS.
   - B. BLADES: RECTANGULAR DAMPERS SHALL BE MULTIPLE BLADES WITH OPPOSED-BLADE DESIGN. ROUND DAMPERS SHALL BE SINGLE BLADE. BLADE EDGING SHALL BE REPLACEABLE RUBBER SEALS.
   - C. BLADE AXLES: 1/2" DIAMETER. BLADE LINKAGE HARDWARE OF ZINC-PLATED STEEL AND BRASS; ENDS SEALED AGAINST BLADE BEARING.
   - D. BEARINGS: MOLDED SYNTHETIC.
7. FIRE DAMPERS
   - A. TYPE: DYNAMIC; RATED AND LABELED ACCORDING TO UL 555.
   - B. CLOSING RATINGS IN DUCTS UP TO 4" STATIC PRESSURE CLASS AND MAXIMUM 2,000 FPM VELOCITY.
   - C. FIRE RATING: 1-1/2 HOURS, OR AS NOTED IN THE SCHEDULES.
   - D. FRAME: CURTAIN TYPE WITH BLADES INSIDE AIRSTREAM. CONSTRUCTED OF GALVANIZED STEEL.
   - E. MOUNTING SLEEVE: FACTORY FURNISHED.
   - F. MOUNTING ORIENTATION: AS NOTED ON PLANS.
   - G. BLADES: INTERLOCKING, CONSTRUCTED OF GALVANIZED STEEL.
   - H. HEAT-RESPONSIVE DEVICE: 165 DEGREE F RATED FUSIBLE LINK OR AS NOTED IN THE SCHEDULES.
8. TURNING VANES: CURVED BLADES OF GALVANIZED SHEET STEEL. PROVIDED WITH SUPPORT BARS PERPENDICULAR TO BLADE SET SUITABLE FOR DUCT MOUNTING. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE." SINGLE WALL CONSTRUCTION.
9. FLEXIBLE CONNECTORS: CONSTRUCTED OF FLAME-RETARDANT OR NONCOMBUSTIBLE FABRIC. FABRIC SHALL BE A GLASS FABRIC, DOUBLE COATED WITH NEOPRENE. COMPLY WITH UL 181 CLASS 1. FACTORY-FABRICATED WITH A FABRIC STRIP 3-1/2 INCHES WIDE ATTACHED TO TWO STRIPS OF 2-3/4 INCH THICK GALVANIZED SHEET STEEL.

PART 3 - EXECUTION

1. INSTALLATION
   - A. INSTALL DUCT ACCESSORIES ACCORDING TO APPLICABLE DETAILS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE."
   - B. INSTALL VOLUME DAMPERS AT POINTS NOTED ON PLANS AND AS REQUIRED FOR SYSTEM BALANCING. WHERE DAMPERS ARE INSTALLED IN DUCTS WITH DUCT LINER, INSTALL DAMPERS WITH HAT CHANNELS OF SAME DEPTH AS LINER AND TERMINATE LINER WITH NOSING AT HAT CHANNEL.
   - C. WHERE DAMPERS ARE INSTALLED IN WRAPPED DUCT, PROVIDE INSULATION STAND-OFF'S AS REQUIRED.
   - D. SET DAMPERS TO FULLY OPEN POSITION BEFORE TESTING, ADJUSTING AND BALANCING.
   - E. INSTALL TEST HOLES AT FAN INLETS AND OUTLETS AND WHERE REQUIRED FOR TESTING AND BALANCING PURPOSES.
   - F. INSTALL FIRE DAMPERS ACCORDING TO UL LISTING.
   - G. INSTALL FLEXIBLE CONNECTORS TO CONNECT DUCTS TO EQUIPMENT.
2. TESTS AND INSPECTIONS
   - A. OPERATE DAMPERS TO VERIFY FULL RANGE OF MOVEMENT.
   - B. OPERATE FIRE DAMPERS TO VERIFY FULL RANGE OF MOVEMENT AND VERIFY THAT PROPER HEAT-RESPONSE DEVICE IS INSTALLED.
   - C. INSPECT TURNING VANES FOR PROPER AND SECURE INSTALLATION.

(END OF SECTION 23 33 00)

SECTION 23 33 46 - FLEXIBLE DUCTS

PART 1 - GENERAL

1. SECTION REQUIREMENTS
   - A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS

1. COMPLY WITH NFPA 90A AND NFPA 90B.
2. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS AND DUCT CONSTRUCTION METHODS UNLESS NOTED OTHERWISE.
3. COMPLY WITH ASTM E 96/E 96M.
4. INSULATED, FLEXIBLE DUCT UL 181, CLASS 1. FACTORY FABRICATED AND INSULATED. PROVIDED WITH INTERIOR LINER, FIBROUS-GLASS INSULATION AND VAPOR-BARRIER FILM.
   - A. PRESSURE RATING: 10" W.G. POSITIVE.
   - B. MAXIMUM VELOCITY: 4,000 FPM
   - C. INSULATION R-VALUE: R6.0
5. FLEXIBLE DUCT CONNECTORS SHALL BE NYLON STRAPS IN SIZES 3 THROUGH 18 INCHES TO SUIT DUCT SIZE.

PART 3 - EXECUTION

1. INSTALLATION
   - A. INSTALL FLEXIBLE DUCTS ACCORDING TO APPLICABLE DETAILS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."
   - B. INSTALL IN INDOOR APPLICATIONS ONLY. FLEXIBLE DUCTWORK IS ONLY PERMITTED TO CONNECT TO SUPPLY-AIR GRILLES, REGISTERS AND DIFFUSERS. MAXIMUM LENGTH SHALL BE 60 INCHES.
   - C. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH DRAW BANDS AND TAPE.
   - D. INSTALL DUCTS FULLY EXTENDED.
   - E. DO NOT BEND DUCTS ACROSS SHARP CORNERS.
   - F. BENDS OF FLEXIBLE DUCTING SHALL NOT EXCEED A MINIMUM OF ONE DUCT DIAMETER.
   - G. AVOID CONTACT WITH METAL FIXTURES, WATER LINES, PIPES, ADJACENT DUCTWORK OR CONDUIT.
   - H. INSTALL FLEXIBLE DUCTS IN A DIRECT LINE, WITHOUT SAGS, TWISTS OR TURNS.
   - I. SUSPEND FLEXIBLE DUCTS WITH BANDS 1-1/2 INCHES WIDE AND SPACED A MAXIMUM OF 48 INCHES APART. PROVIDE ADDITIONAL SUPPORT AT BENDS. DUCTS MAY REST ON CEILING JOISTS OR TRUSS SUPPORTS. SPACING BETWEEN THESE ELEMENTS SHALL NOT EXCEED 48 INCHES.

(END OF SECTION 23 33 46)

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02/21/2025

PROJECT INFORMATION: **PARK SLOPE**

PROJECT INFORMATION: **78-76 ST SAINT MARKS AVE BROOKLYN, NY 11217**

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CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028
TEMPLATE VERSION:	12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
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MECHANICAL SPECIFICATIONS

1

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SECTION 23 34 03 - UTILITY SET POWER VENTILATORS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE DIMENSIONS, WEIGHTS, REQUIRED CLEARANCES, COMPONENTS, ELECTRICAL CHARACTERISTICS, CFM, STATIC PRESSURE AND FAN CURVE.
   B. WARRANTY: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER AGREEING TO REPAIR OR REPLACE COMPONENTS OF RTUS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN THE MANUFACTURER'S STANDARD WARRANTY PERIOD.

PART 2 - PRODUCTS
1. DESCRIPTION
   A. CENTRIFUGAL UPBLAST UTILITY EXHAUST VENTILATOR.
2. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. CHARACTERISTICS. PROVIDED WITH:
   A. BASE: CONSTRUCTED OF GALVANIZED STEEL.
   B. HOUSING:CONSTRUCTED OF ALUMINIZED AND GALVANIZED STEEL. FAN SCROLL SHALL BE CONTINUOUSLY SEALED AND TACK WELDED.
   C. WHEEL: CENTRIFUGAL, BACKWARD INCLINED AND NON-OVERLOADING. BALANCED IN TWO PLANES IN ACCORDANCE WITH AMCA STANDARDS. WHEEL BLADES SHALL BE AERODYNAMICALLY DESIGNED TO MINIMIZE TURBULENCE AND REDUCE NOISE. WHEEL SHALL BE CONSTRUCTED OF HEAVY GAUGE WELDED ALUMINUM. ANY BALANCING WEIGHTS SHALL BE WELDED OR RIVETED TO THE BLADES OR WHEEL. WHEEL SHALL BE FIRMLY ATTACHED TO THE MOTOR SHAFT WITH SET SCREWS..
   D. MOTOR: HEAVY DUTY BALL BEARING TYPE MOUNTED OUT OF THE AIRSTREAM AT THE VOLTAGE AND PHASE NOTED IN THE SCHEDULES. MOTOR COMPARTMENT SHALL BE COOLED BY OUTSIDE AIR. MOTOR COMPARTMENT SHALL BE COMPLETELY REMOVABLE WITH THE MOTOR COVER ASSEMBLY HAVING WING BOLTS TO SECURE THE ASSEMBLY TO THE HOUSING.
   E. BELTS AND DRIVES: BELTS SHALL BE HEAT AND OIL RESISTANT, NON-STATIC TYPE. DRIVES SHALL BE CAST TYPE AND SIZED FOR A MINIMUM OF 150% THE INSTALLED MOTOR HORSEPOWER. FAN OPERATING SPEED SHALL BE FACTORY SET USING ADJUSTABLE PITCH PULLEYS. MOTORS OVER 2 HP TO BE FURNISHED WITH DOUBLE-GROOVE PULLEYS.
   F. ACCESSORIES: AS NOTED ON THE MECHANICAL SCHEDULES.

PART 3 - EXECUTION
1. INSTALLATION
   A. UNIT SUPPORT: INSTALL ON ROOF RAILS ON ROOF STRUCTURE, LEVEL, SECURE, PER STRUCTURAL DETAILS AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONNECTIONS
   A. COMPLY WITH DUCT INSTALLATION REQUIREMENTS SPECIFIED IN OTHER HVAC SECTIONS. DRAWINGS INDICATE GENERAL ARRANGEMENTS OF DUCTS.
   B. CONNECT TO FANS WITH FLEXIBLE DUCT CONNECTORS.
   C. WHERE INSTALLING PIPING ADJACENT TO FANS, ALLOW SPACE FOR SERVICE AND MAINTENANCE.
   D. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
   E. GROUND EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
3. FIELD QUALITY CONTROL
   A. AFTER INSTALLING FANS, TEST UNITS FOR COMPLIANCE WITH REQUIREMENTS.
   B. INSPECT OR AND REMOVE SHIPPING BOLTS, BLOCKS AND TIE-DOWN STRAPS.
   C. CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATIONS.
   D. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
   E. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.

(END OF SECTION 23 34 03)

SECTION 23 34 33 - AIR CURTAINS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE HEATING WATTAGE, ELECTRICAL CHARACTERISTICS, AIRFLOW CHARACTERISTICS, DIMENSIONS, WEIGHTS AND ACCESSORIES.
   B. WARRANTY: PROVIDE MANUFACTURER'S WARRANTY EFFECTIVE FOR FIVE YEARS FOR UNHEATED UNITS, AND TWO YEARS FOR HEATED UNITS. THE GENERAL CONTRACTOR SHALL PROVIDE A 12 MONTH WARRANTY ON ALL WORKMANSHIP.

PART 2 - PRODUCTS
1. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES.
2. CHARACTERISTICS. PROVIDED WITH:
   A. CABINET: ALUMINIZED STEEL CABINET WITH STAINLESS STEEL RIVETED CONSTRUCTION AND WHITE POWDER COATED FINISH.
   B. MOUNTING: PROVIDE WALL OR SUSPENDED MOUNTING AS REQUIRED.
   C. SERVICE ACCESS: REMOVABLE SCREEN AND REMOVABLE BOTTOM ACCESS PANEL.
   D. MOTORS: DIRECT DRIVE, RESILIENT MOUNTED, RATED FOR CONTINUOUS DUTY WITH INTERNAL THERMAL-OVERLOAD PROTECTION AND PERMANENTLY LUBRICATED SEALED BALL BEARINGS.
   E. FANS: BALANCED, FORWARD CURVED CROSS FLOW MADE OF ALUMINUM.
   F. DISCHARGE NOZZLES: PROVIDE UNIFORM VELOCITY ACROSS WIDTH OF AIR CURTAIN.
   G. INLET: PROVIDED WITH PERFORATED PATTERN SCREEN.
   H. HEATING ELEMENTS (WHEN NOTED ON PLANS): UL-APPROVED, FACTORY-MOUNTED, FACTORY WIRED, THERMALLY PROTECTED, IN GALVANIZED STEEL FRAME. HELICAL COIL DESIGN WITH THERMAL CUTOUT.
   I. PROVIDE ALL ACCESSORIES AS NOTED IN THE SCHEDULES.
3. CONTROLS:
   A. MANUAL SWITCH: FACTORY INSTALLED "FAN-OFF-FAN & HEAT" AND "HIGH-LOW" SWITCHES.
   B. CONTROL PACKAGE: AIR CURTAIN SHALL TURN ON WHEN DOOR IS OPENED AND SHUT OFF WHEN DOOR IS CLOSED.
   C. OUTDOOR AIR TEMPERATURE SENSOR (WHEN PROVIDED WITH A HEATING ELEMENT AND INDICATED ON PLANS).

PART 3 - EXECUTION
1. INSTALLATION
   A. INSTALL AIR CURTAIN WHERE INDICATED ON DRAWINGS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE CLEARANCE TO PERMIT SERVICING AND MAINTENANCE.
   B. INSTALL LEVEL, PLUMB AND AS CLOSE AS PRACTICAL TO TOP OF OPENING AND FACE OF WALL.
   C. INSTALL ALL ACCESSORIES.
2. CONNECTIONS
   A. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
   B. GROUND EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
3. FIELD QUALITY AND CONTROL
   A. TEST AND OPERATE AIR CURTAIN TO VERIFY PERFORMANCE AS INDICATED.
4. ADJUSTING
   A. ADJUST MOTOR AND FAN SPEED TO PERFORM AS INDICATED.
   B. ADJUST NOZZLES TO DEFLECT AIR OUTWARD UNLESS NOTED OTHERWISE.

(END OF SECTION 23 34 33)

SECTION 23 37 13 - GRILLES, REGISTERS & DIFFUSERS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS
1. GRILLES: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
2. REGISTERS: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. DIFFUSERS: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED. UNLESS OTHERWISE NOTED, ALL CEILING DIFFUSERS SHALL BE FOUR-WAY.

PART 3 - EXECUTION
1. INSTALLATION
   A. INSTALL GRILLES, REGISTERS & DIFFUSERS LEVEL AND PLUMB.
   B. INSTALL GRILLES, REGISTERS & DIFFUSERS AS INDICATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
   C. INSTALL GRILLES, REGISTERS & DIFFUSERS WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS, EXTRACTORS AND OTHER ACCESSORIES.
   D. ALL AIR DEVICE COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL UNTIL THE FINAL START-UP OF THE HEATING COOLING AND VENTILATION EQUIPMENT
   E. WHEN INDICATED ON THE PLANS, PAINT THE GRILLES, REGISTERS & DIFFUSERS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH AN ENAMEL PAINT, COLOR AS INDICATED.
   F. AFTER INSTALLATION, ADJUST REGISTERS & DIFFUSERS TO AIR PATTERNS (IF NOTED) OR AS DIRECTED BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO STARTING AIR BALANCING.

(END OF SECTION 23 37 13)

SECTION 23 90 00 - LOUVERS

PART 1 - GENERAL
1. SECTION INCLUDES
   A. EXTRUDED ALUMINUM LOUVERS
2. PERFORMANCE REQUIREMENTS
   A. UL CLASSIFIED FOR WIND RESISTANT BUILDING COMPONENTS IN ACCORDANCE WITH ASTM E330-02 FOR +- FSF WINDLOAD.
   B. LOUVERS SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL, LISTED FOR BASE PROTECTION.
3. SECTION REQUIREMENTS
   A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING SIZE, FACE AREA , FREE AREA, AIRFLOW, PRESSURE DROP, MATERIAL, FINISH AND FURNISHED ACCESSORIES.
4. WARRANTY: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER INDICATING THAT THE PRODUCT WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 5-YEARS AS OF THE DATE OF DELIVERY TO THE DELIVERY LOCATION.

PART 2 - PRODUCTS
1. DESCRIPTION
   A. LOUVERS SHALL BE STATIONARY DRAINABLE TYPE WITH DRAIN GUTTERS IN EACH BLADE AND DOWNSPOUTS IN JAMBS AND MULLIONS.
   B. STATIONARY DRAINABLE BLADES SHALL BE CONTAINED WITHIN A FRAME.
   C. LOUVER COMPONENTS (HEADS, JAMBS, SILLS, BLADES & MULLIONS) SHALL BE FACTORY ASSEMBLED BY THE MANUFACTURER.
   D. LOUVER SIZES TOO LARGE FOR SHIPPING SHALL BE BUILT-UP BY THE CONTRACTOR FROM FACTORY-ASSEMBLED SECTIONS.
   E. LOUVERS SHALL BE FURNISHED WITH A FLATTENED ALUMINUM BIRD SCREEN IN REMOVEABLE FRAME.
   F. FINISH SHALL BE AS NOTED IN THE MATERIAL SCHEDULES.
2. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES. ALTERNATES BY GREENHECK AND NAILOR.

PART 3 - EXECUTION
1. INSTALLATION
   A. INSPECT AREAS TO RECEIVE LOUVERS. NOTIFY THE ARCHITECT OF CONDITIONS THAT WOULD ADVERSELY AFFECT THE INSTALLATION OR UTILIZATION OF THE LOUVERS.
   B. CLEAN OPENING THOROUGHLY PRIOR TO INSTALLATION AND PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER.
   C. INSTALL LOUVERS AT LOCATIONS INDICATED AND IN ACCORDANCE WITH THE STRUCTURAL DETAILS AND MANUFACTURER'S INSTRUCTIONS.
   D. INSTALL LOUVERS LEVEL, PLUMB, IN PLANE OF WALL AND IN ALIGNMENT WITH ANY ADJACENT WORK.
   E. INSTALL JOINT SEALANTS AS REQUIRED.
2. FIELD QUALITY CONTROL
   A. CLEAN LOUVER SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
   B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS.

(END OF SECTION 23 90 00)

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PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028
TEMPLATE VERSION:	12/30/2023

REVISIONS

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	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT

MECHANICAL SPECIFICATIONS

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SYMBOLS & ABBREVIATIONS

HVAC SYMBOLS

- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) — W x H
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR — S
- MOTOR-OPERATED DAMPER — M
- MANUAL VOLUME DAMPER
- MITERED CORNER WITHOUT TURNING VANES
- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT

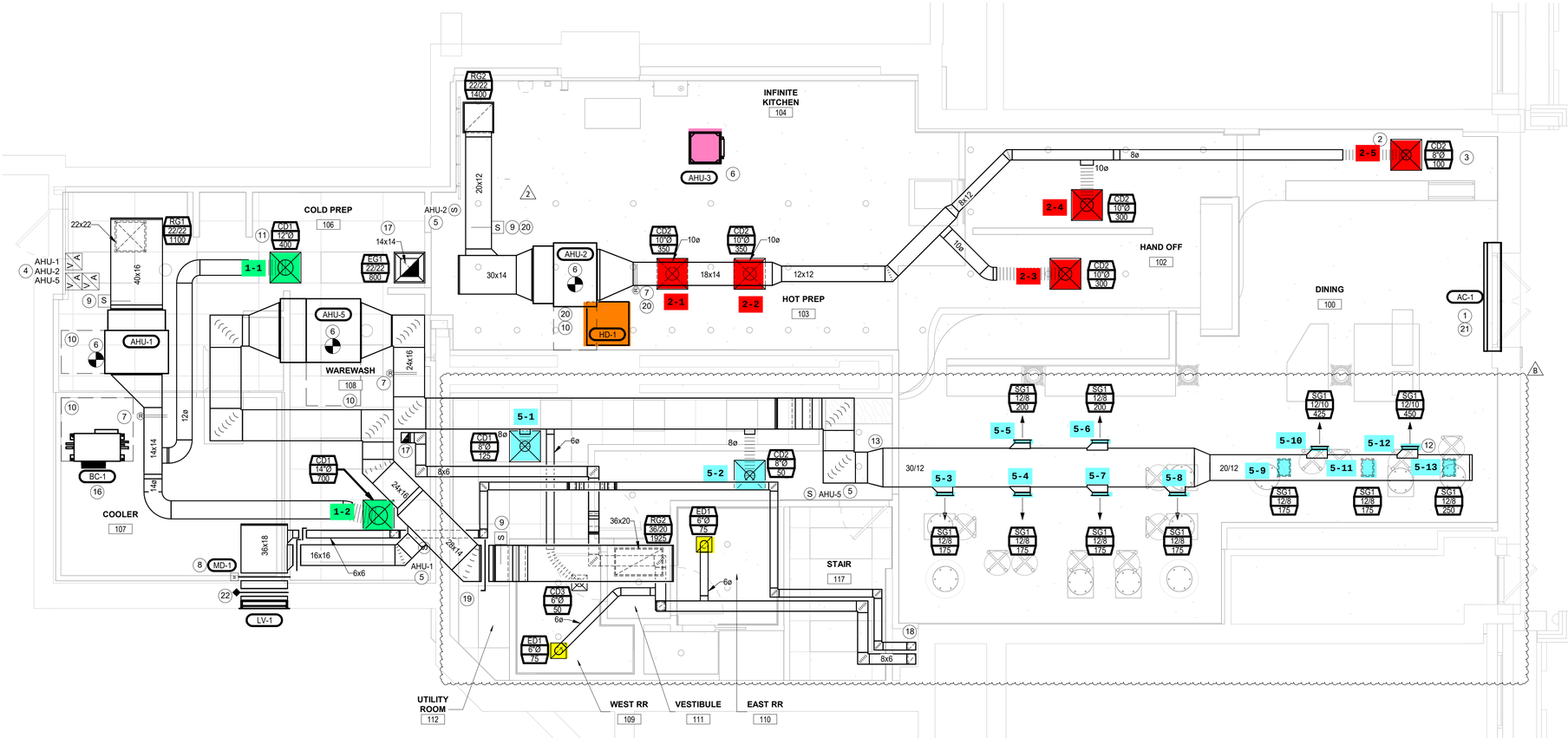
- T — THERMOSTAT
- S — REMOTE TEMPERATURE SENSOR
- X — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- XX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION
- A/V — AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- CD1 / 12Ø / 350 — TAG / NECK SIZE / AIRFLOW [CFM]

HVAC ABBREVIATIONS

(E)	EXISTING
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OBD	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP

CODED NOTES

1 INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTION AND PER THE STRUCTURAL DETAILS.
2 PROVIDE SUPPLY DIFFUSER CONNECTION PER DETAIL 1/SHEET M-400.
3 REFER TO THE ARCHITECTURAL RCP FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
4 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.
5 RELOCATE THE LANDLORD-PROVIDED TEMPERATURE SENSOR TO THE LOCATION INDICATED AT AN ELEVATION OF 5'-0" A.F.F. COORDINATE LOCATION WITH EQUIPMENT AND OTHER WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
6 AIR HANDLING UNIT SHALL BE EXISTING TO REMAIN, PROVIDED BY THE LANDLORD UNDER A SEPARATE PERMIT. PROVIDE DRAIN PAN UNDER THE UNIT PER THE AIR-HANDLING UNIT INSTALLATION DETAIL. CONNECT TO THE EXISTING SUPPLY/RETURN AIR CONNECTIONS.
7 THE GENERAL CONTRACTOR SHALL FURNISH A REME HALO AIR PURIFICATION SYSTEM AND REQUIRED TRANSFORMER, PURCHASED THROUGH SWEETGREEN'S VENDOR (NATIONAL TAB, CONTACT WILL TURNBOUGH [855-682-6822, EXT 4,2] [WILL@NATIONALTAB.COM]) AND INSTALL SYSTEM IN THE SUPPLY AIR DUCTWORK AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ADJUST AS REQUIRED FOR THE SUPPLY AIRFLOW.
8 PROVIDE TWO-POSITION DAMPER IN LOCATION SHOWN, WHEN THE SPACE IS SCHEDULED TO BE IN OCCUPIED MODE, THE DAMPER SHALL POWER OPEN. DURING UNOCCUPIED MODE, THE DAMPER SHALL SPRING CLOSED.
9 THE GENERAL CONTRACTOR SHALL PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE RETURN AIR STREAM. UPON DETECTION OF SMOKE, THE SUPPLY AIR FAN SHALL DE-ENERGIZE. COORDINATE ALL REQUIREMENTS WITH THE LANDLORD AND ALARM PROVIDER.
10 MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ZONES. NO DUCTWORK, PIPING, CONDUIT OR OTHER SYSTEMS SHALL BER PERMITTED IN THIS AREA. COORDINATE WITH SITE CONDITIONS AND WORK OF OTHER TRADES AS REQUIRED. TYPICAL.
11 FLEXIBLE DUCTWORK AND DIFFUSER SHALL BE INSTALLED SUCH THAT THE EQUIPMENT MAY BE REMOVED TO MAINTAIN AND PERMIT FILTER CHANGES THE WATER SOURCE HEAT PUMP'S REQUIRED CLEARANCES DURING SERVICING.
12 PAINT ALL DUCTWORK VISIBLE THROUGH THE GRILLES IN THE DINING AREA BLACK. TYPICAL.
13 TRANSFER FROM RECTANGULAR TO FLAT OVAL DUCTWORK AFTER THE PENETRATION THROUGH THE WALL AS SHOWN. PROVIDE FLAT-OVAL EXPOSED DUCTWORK AS SHOWN, PER THE SPECIFICATIONS AND PER DETAIL 4/SHEET M-400. PAINT DUCTWORK TO MATCH CEILING.
16 BRANCH CONTROLLER SHALL BE EXISTING TO REMAIN, PROVIDED BY THE LANDLORD UNDER A SEPARATE PERMIT.
17 DUCTWORK TO ROOF ABOVE. REFER TO THE HVAC ROOF PLAN ON SHEET M-102 FOR CONTINUATION.
18 DUCTWORK TO/FROM CELLAR. REFER TO THE HVAC PLAN – CELLAR ON SHEET M-101 FOR CONTINUATION.
19 FOREIGN SYSTEM OVER ELECTRICAL DEDICATED SPACE. PROVIDE SUFFICIENT PROTECTION (DRIP PAN, MINIMUM) UNDER THE DUCTWORK ROUTED OVER TOP OF THE PANEL LOCATIONS TO AVOID DAMAGE TO THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH SECTION 110.26(E)(1)(b) OF THE ELECTRICAL CODE.
20 PROVIDE A MINIMUM 24"x24" ACCESS PANEL TO PERMIT THE SERVICING OF THE HVAC EQUIPMENT. COORDINATE EXACT LOCATION WITH THE ARCHITECTURAL PLANS AND THE MANUFACTURER'S CUTSHEETS AS NECESSARY.
21 PROVIDE A TEMPERATURE SENSOR ON THE EXTERIOR OF THE BUILDING TO SERVE THE AIR CURTAIN. INTERLOCK THE SENSOR WITH THE EQUIPMENT SUCH THAT THE EQUIPMENT SHALL BE DE-ENERGIZED WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 45°F. ADJUST THE THERMOSTAT FURNISHED WITH THE UNIT HEATER TO LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F.
22 PROVIDE FIRE/SMOKE DAMPER IN THE VENTILATION AIR INTAKE IN ACCORDANCE WITH NYC REQUIREMENTS. PROVIDE ALL SMOKE DETECTORS, ACCESS PANELS AND OTHER COMPONENTS AS REQUIRED FOR PROPER OPERATION, VERIFICATION AND MAINTENANCE. COORDINATE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AS NECESSARY.
23 NOT USED.



TRUE NORTH / PLAN NORTH

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

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SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028
TEMPLATE VERSION:	12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT
2	11/20/2024	HVAC REVISIONS
B	02/24/2025	FOR CONSTRUCTION

HVAC PLAN - GROUND FLOOR

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ENTIRE SHEET

SYMBOLS & ABBREVIATIONS

HVAC SYMBOLS

- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) (W x H)
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR (S)
- MOTOR-OPERATED DAMPER (M)
- MANUAL VOLUME DAMPER
- MITERED CORNER WITHOUT TURNING VANES
- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT

- THERMOSTAT (T)
- REMOTE TEMPERATURE SENSOR (S)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING (X)
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION (XX-#)
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET (A/V)
- TAG (ODT)
- NECK SIZE (12 Ø)
- AIRFLOW [CFM] (350)

HVAC ABBREVIATIONS

(E)	EXISTING
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OBD	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP

CODED NOTES

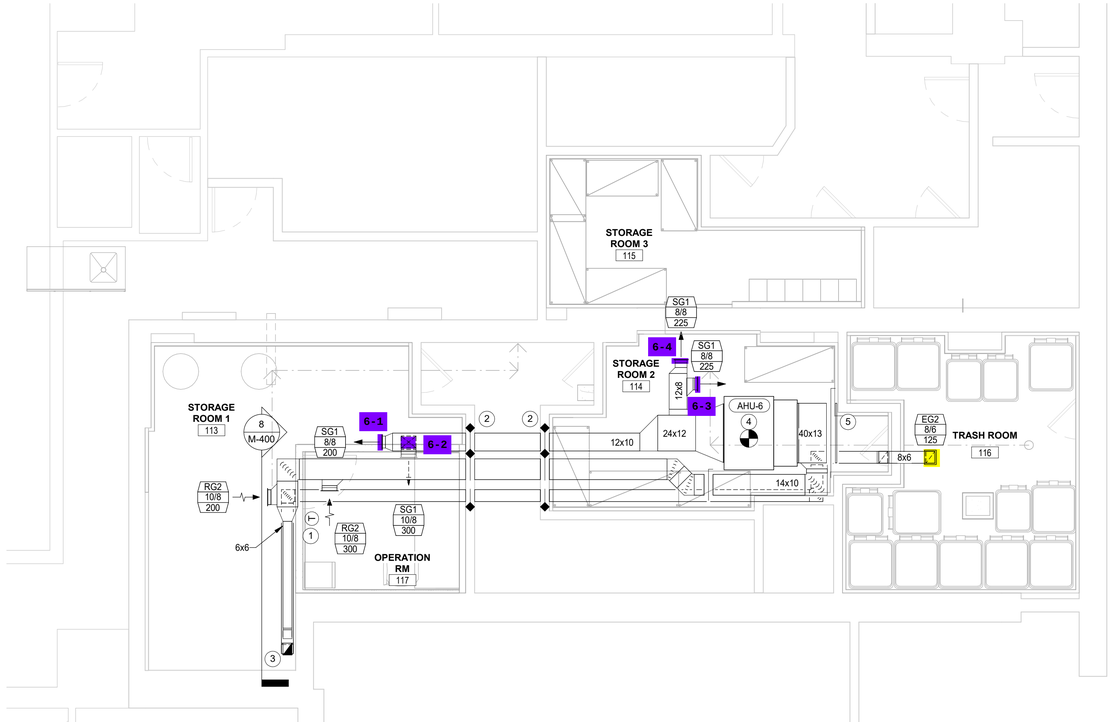
1 INSTALL THE LANDLORD-FURNISHED MAIN CONTROLLER FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THE AREA AND EXTEND CONTROLS WIRING AS NOTED IN THE TRANE SHOP DRAWINGS. COORDINATE CONTROLLER LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THE THERMOSTATS ARE NOT BLOCKED BY SHELVING, COAT RACKS OR DOORS.

2 PROVIDE FIRE DAMPERS IN THE DUCTWORK PENETRATING ALL RATED WALLS IN THE CELLAR. COORDINATE RATING WITH THE RATING OF THE LANDLORD'S WALLS AS REQUIRED. INSTALL PER DETAIL 6/SHEET M-400. TYPICAL.

3 DUCTWORK TO/FROM GROUND FLOOR. REFER TO SHEET M-100 FOR CONTINUATION.

4 AIR HANDLING UNIT SHALL BE EXISTING TO REMAIN, PROVIDED BY THE LANDLORD UNDER A SEPARATE PERMIT. PROVIDE DRAIN PAN UNDER THE UNIT PER THE AIR-HANDLING UNIT INSTALLATION DETAIL. CONNECT TO THE EXISTING SUPPLY/RETURN AIR CONNECTIONS.

5 BALANCE RETURN TO 330 CFM.



TRUE NORTH PLAN NORTH

1 **HVAC PLAN - CELLAR**
1/4" = 1'-0"

MS B07995708-P1

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sg

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3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

ENGINEER OF RECORD:

EVERJ ENGINEERING, INC.
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www.everjengineering.com

STAMP:

NOT FOR CONSTRUCTION

02/21/2025

PROJECT INFORMATION:
PARK SLOPE

PROJECT INFORMATION:
78-76 ST SAINT MARKS AVE
BROOKLYN, NY 11217

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028
TEMPLATE VERSION:	12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT

HVAC PLAN - CELLAR

1 **M-101.01**
ENTIRE SHEET

SYMBOLS & ABBREVIATIONS

HVAC SYMBOLS

- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR
- MOTOR-OPERATED DAMPER
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT
- THERMOSTAT
- REMOTE TEMPERATURE SENSOR
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- TAG
- NECK SIZE
- AIRFLOW [CFM]

HVAC ABBREVIATIONS

(E)	EXISTING
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OBD	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP

CODED NOTES

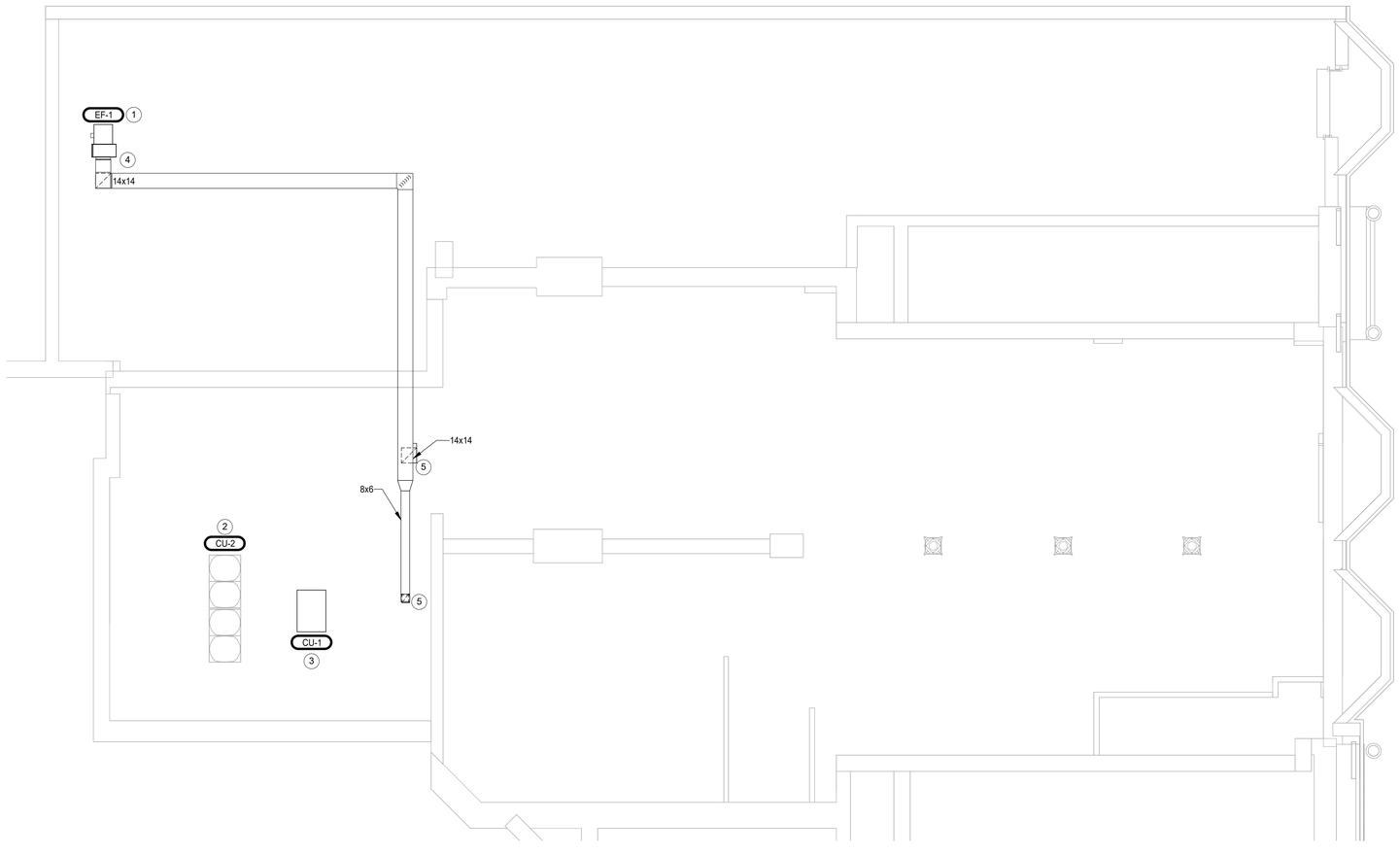
1 INSTALL EQUIPMENT MOUNTED ON EQUIPMENT RAILS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER THE STRUCTURAL DETAILS. INSTALL SUCH THAT THE FAN SHALL NOT BE VISIBLE FROM THE SURROUNDING STREETS, AND IS A MINIMUM OF 10'-0" FROM ALL MECHANICAL INTAKES AND OPERABLE OPENINGS INTO BUILDINGS.

2 EXISTING CONDENSING UNIT PROVIDED BY THE LANDLORD UNDER A SEPARATE PERMIT ON THE LOWER ROOF.

3 COORDINATE MOUNTING LOCATION FOR WALK-IN COOLER CONDENSING UNIT, CU-1 ON THE ROOF WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. ENSURE ALL CLEARANCE REQUIREMENTS FOR THE UNIT ARE MAINTAINED THROUGH CONSTRUCTION. PROVIDE ROOF RAILS AND INSTALL THE UNIT ON THE ROOF PER THE STRUCTURAL DRAWINGS AND AS REQUIRED BY THE KITCHEN EQUIPMENT SUPPLIER. KITCHEN EQUIPMENT SUPPLIER SHALL PROVIDE LINESET, SPECIALTIES AND MAKE ALL FINAL CONNECTIONS BETWEEN THE CONDENSING UNIT AND EVAPORATOR COIL. COORDINATE WITH THE EQUIPMENT SUPPLIER TO PROVIDE PENETRATIONS AS NECESSARY.

4 PROVIDE ROOF-MOUNTED DUCTWORK AS SHOWN, PER THE SPECIFICATIONS AND PER DETAIL 5/SHEET M400.

5 EXHAUST DUCT UP FROM GROUND FLOOR. REFER TO SHEET M-100 FOR CONTINUATION.



TRUE NORTH PLAN NORTH

1 **HVAC PLAN - ROOF**
3/16" = 1'-0"

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3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

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CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028

TEMPLATE VERSION: 12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT

HVAC PLAN - ROOF

M-102.01
ENTIRE SHEET

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SYMBOLS & ABBREVIATIONS

HVAC PIPING SYMBOLS

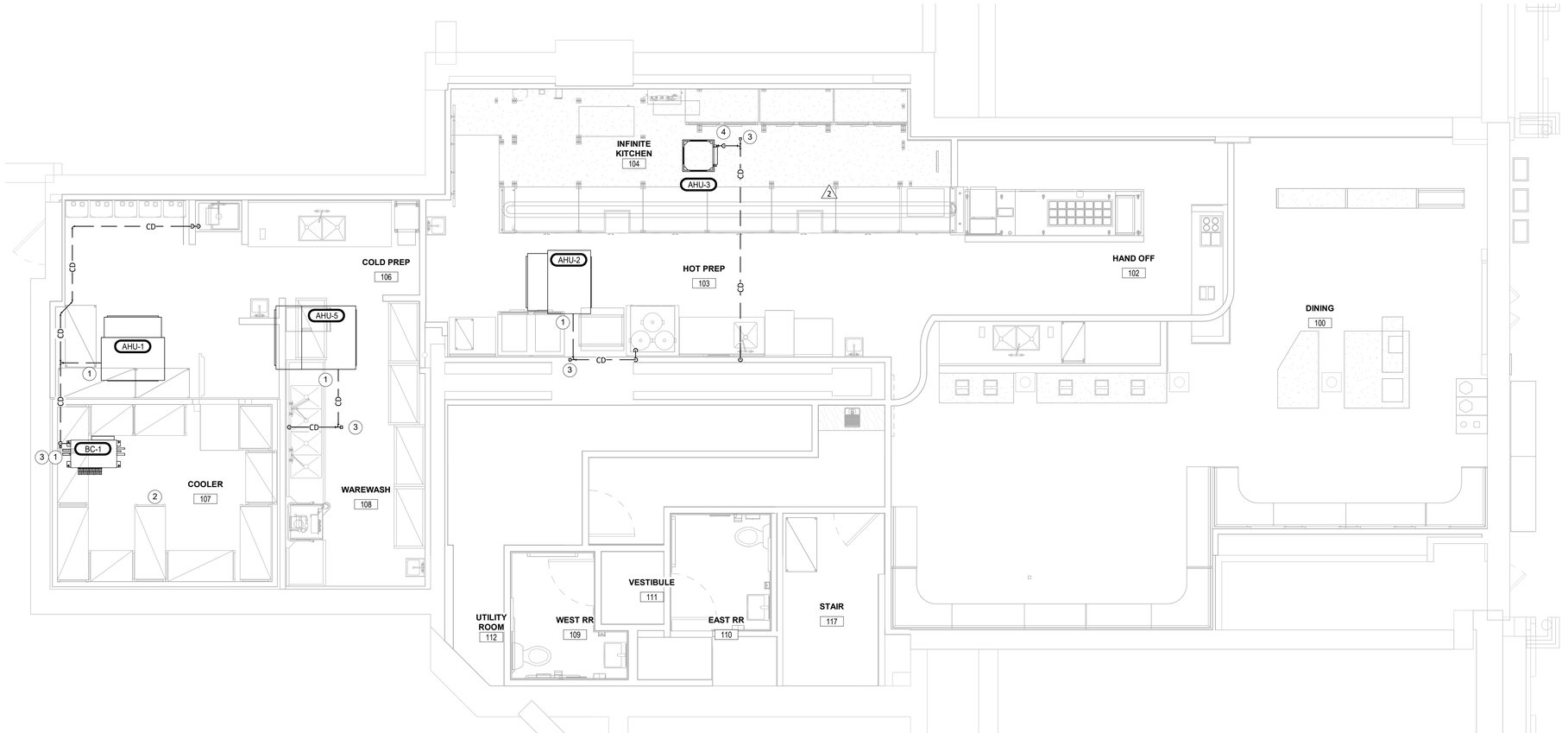
- ELBOW UP
- ELBOW DOWN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- CD — CONDENSATE DRAIN
- (X) PLAN NOTE: SEE KEYNOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- (XX-#) EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION
- VALVE
- SOLENOID-OPERATED VALVE
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- (BTU) BTU METER

HVAC PIPING ABBERVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CONDENSATE DRAIN
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
RTU	ROOFTOP UNIT
WSHP	WATER SOURCE HEAT PUMP

CODED NOTES

1. PROVIDE CONDENSATE DRAIN FROM THE AIR HANDLING UNIT AS SHOWN. PER DETAIL 2/SHEET M-400 AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE INDIRECT DRAIN PER DETAIL 5/SHEET P-400. ALL DRAIN PIPING SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN FRAMED WALLS UNLESS OTHERWISE NOTED.
2. REFER TO SANITARY WASTE AND VENT PLAN FOR WALK-IN COOLER CONDENSATE DRAIN ROUTING.
3. PROVIDE CLEANOUTS IN THE DRAIN LINE AS SHOWN AND AS REQUIRED TO PERMIT THE CLEARING OF BLOCKAGES AND FOR MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. COORDINATE ACCESS PANELS AND ALL OTHER REQUIREMENTS WITH SITE CONDITIONS AS REQUIRED. TYPICAL.
4. UNIT FURNISHED WITH AN INTEGRAL CONDENSATE LIFT MECHANISM DESIGNED TO PROVIDE UP TO 33" OF LIFT. EXTEND PIPING UP AND DRAIN VIA GRAVITY TO THE INDIRECT WASTE RECEPTOR AS SHOWN. (2)



TRUE NORTH / PLAN NORTH

1 **HVAC PIPING PLAN - GROUND FLOOR**
1/4" = 1'-0"

MS B07995708-P1

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PROJECT MANAGER:	JAE
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SG CONSTR. MANAGER:	JD
PROJECT NO:	240028
TEMPLATE VERSION:	12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT
2	11/20/2024	HVAC REVISIONS

HVAC PIPING PLAN - GROUND FLOOR

(1) **M-200.02**
ENTIRE SHEET

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SYMBOLS & ABBREVIATIONS

HVAC PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
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- CD — CONDENSATE DRAIN
- (X) — PLAN NOTE: SEE KEYNOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
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- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- (BTU) — BTU METER

HVAC PIPING ABBERVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CONDENSATE DRAIN
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
RTU	ROOFTOP UNIT
WSHP	WATER SOURCE HEAT PUMP

CODED NOTES

1 PROVIDE CONDENSATE DRAIN FROM THE AIR HANDLING UNIT AS SHOWN. PER DETAIL 2/SHEET M-400 AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE INDIRECT DRAIN PER DETAIL 5/SHEET P-400. ALL DRAIN PIPING SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN FRAMED WALLS UNLESS OTHERWISE NOTED.

2 PROVIDE CLEANOUTS IN THE DRAIN LINE AS SHOWN AND AS REQUIRED TO PERMIT THE CLEARING OF BLOCKAGES AND FOR MAINTENANCE WITHOUT REQUIRING THE DRAIN LINE TO BE CUT. COORDINATE ACCESS PANELS AND ALL OTHER REQUIREMENTS WITH SITE CONDITIONS AS REQUIRED. TYPICAL.

TRUE NORTH PLAN NORTH

1 **HVAC PIPING PLAN - CELLAR**
1/4" = 1'-0"

MS B07995708-P1

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3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

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SG CONSTR. MANAGER:	JD
PROJECT NO:	240028

TEMPLATE VERSION: 12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
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1	09/16/2024	FOR PERMIT AMENDMENT

HVAC PIPING PLAN - CELLAR

1 **M-201.01**
NEW SHEET ADDED

VENTILATION CALCULATIONS, AHU-5
(PER TABLE 403.3.1.1 OF THE 2022 NEW YORK CITY MECHANICAL CODE)

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION		OCCUPANT BASED				AREA BASED			ZONE OUTDOOR AIRFLOW (CFM)
			ROOM AREA (SF)	OCCUPANT DENSITY	OCCUPANTS	Rp	VENTILATION (CFM)	Ra	VENTILATION (CFM)	EFFECITVENESS	
100	DINING ROOM	DINING ROOM	961.6	70	68	7.5	510.0	0.18	173.1	0.8	853.9
111	VESTIBULE	CORRIDOR	18.6	0	0	0	0.0	0.06	1.1	0.8	1.4
112	UTILITY ROOM	STORAGE	112.8	0	0	0	0.0	0.12	13.5	0.8	16.9
										REQUIRED AIRFLOW (CFM)	872.2
										PROVIDED AIRFLOW (CFM)	875.0

VENTILATION CALCULATIONS, AHU-6
(PER TABLE 403.3.1.1 OF THE 2022 NEW YORK CITY MECHANICAL CODE)

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION		OCCUPANT BASED				AREA BASED			ZONE OUTDOOR AIRFLOW (CFM)
			ROOM AREA (SF)	OCCUPANT DENSITY	OCCUPANTS	Rp	VENTILATION (CFM)	Ra	VENTILATION (CFM)	EFFECITVENESS	
117	OPERATION RM	OFFICE	65.1	5	1	5	5.0	0.06	3.9	0.8	11.1
114, 115, 116	STORAGE ROOM	STORAGE	451.8	0	0	0	0.0	0.12	54.2	0.8	67.8
113	CORRIDOR	CORRIDOR	199.8	0	0	0	0.0	0.06	12.0	0.8	15.0
										REQUIRED AIRFLOW (CFM)	93.9
										PROVIDED AIRFLOW (CFM)	100.0

EXHAUST CALCULATIONS
(PER TABLE 403.3.1.1 OF THE 2022 NEW YORK CITY MECHANICAL CODE)

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	FIXTURE BASED			AREA BASED			
			NUMBER OF FIXTURES	EXHAUST AIRFLOW RATE (CFM)	REQUIRED EXHAUST (CFM)	AREA (SF)	Ra	REQUIRED EXHAUST (CFM)	PROVIDED EXHAUST (CFM)
102, 103, 104, 106, 108	KITCHEN	KITCHEN (COOKING)	0	0	0	616.4	0.7	431.48	800
109	WEST RR	TOILET ROOM	1	50	50	53.7	0	50	75
110	EAST RR	TOILET ROOM	1	50	50	54.7	0	50	75

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED, SUPPLY	DOUBLE WALL FLAT OVAL FOR MAIN LEVEL. RECTANGULAR INSULATED FOR LOWER LEVEL.
	EXPOSED, RETURN	RECTANGULAR INSULATED.
	CONCEALED, SUPPLY	RECTANGULAR OR ROUND AS SHOWN. INSULATED.
	CONCEALED, RETURN	RECTANGULAR OR ROUND AS SHOWN. INSULATED.
	CONCEALED, GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN. INSULATED.
	CONCEALED, VENTILATION AIR	RECTANGULAR OR ROUND AS SHOWN. INSULATED
PIPING	HYDRONIC PIPING: HOT, CHILLED AND CONDENSER WATER	TYPE L COPPER TUBE.
	CONDENSATE DRAINS	TYPE L COPPER TUBE AND FITTINGS.

AIR HANDLING UNIT SCHEDULE

TAG	DESCRIPTION	COOLING CAPACITY (TONS)	EER	AIRFLOW				COOLING				HEATING				ELECTRICAL			SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
				TOTAL (CFM)	RETURN (CFM)	OA (CFM)	E.S.P. (IN W.C.)	NET TOTAL MBH)	NET SENSIBLE (MBH)	EAT (DEG. F) DB	EAT (DEG. F) WB	EAT (DEG. F)	TOTAL (MBH)	LAT (DEG. F)	WEIGHT (LB)	MOCP (A)	MCA (A)	V/P/H					
AHU-1	KITCHEN - REAR AIR HANDLING UNIT	3	11.2	900	900	0	0.8	35.0	22.1	73.7	65.6	69.7	39.3	96.8	250	15	3.3	208/1/60	LANDLORD	LANDLORD	TRANE	TPEFYP036MH140A	LANDLORD TO FURNISH WITH FILTER BOX, JOINT PIPE AND EXTERNAL HEATER ADAPTOR. TENANT TO FURNISH, AND CONTRACTOR TO INSTALL FLUSH-MOUNT SENSOR.
AHU-2	KITCHEN - FRONT AIR HANDLING UNIT	4.5	11.2	1400	1400	0	0.8	52.5	33.4	73.7	65.6	69.7	58.9	108.3	250	15	4.2	208/1/60	LANDLORD	LANDLORD	TRANE	TPEFYP054MH140A	LANDLORD TO FURNISH WITH FILTER BOX, JOINT PIPE AND EXTERNAL HEATER ADAPTOR. TENANT TO FURNISH, AND CONTRACTOR TO INSTALL FLUSH-MOUNT SENSOR.
AHU-3	INFINITE KITCHEN CASSETTE	1	11.7	335	335	0	0.0	11.7	6.7	73.7	65.6	69.7	13.3	106.4	50	15	0.3	208/1/60	LANDLORD	LANDLORD	TRANE	TPLFYP012FM140A	LANDLORD TO FURNISH WITH DECORATIVE GRILLE. CONDENSATE ROUTED TO NEAREST WASTE STACK.
AHU-5	DINING ROOM AIR HANDLING UNIT	8	11.2	2800	1925	875	0.8	94.6	67.3	78.8	67.0	51.8	112.3	85.7	350	15	8.2	208/1/60	LANDLORD	LANDLORD	TRANE	TPEFYP096MH140A	LANDLORD TO FURNISH WITH FILTER BOX, JOINT PIPE AND EXTERNAL HEATER ADAPTOR. TENANT TO FURNISH, AND CONTRACTOR TO INSTALL FLUSH-MOUNT SENSOR.
AHU-6	CELLAR AIR HANDLING UNIT	3	11.2	950	850	100	0.8	38.2	17.8	74.5	69.9	65.7	40.1	93.2	250	15	3.3	208/1/60	LANDLORD	LANDLORD	TRANE	TPEFYP036MH140A	LANDLORD TO FURNISH WITH FILTER BOX, JOINT PIPE AND EXTERNAL HEATER ADAPTOR. TENANT TO FURNISH, AND CONTRACTOR TO INSTALL FLUSH-MOUNT SENSOR.

AIR BALANCE SCHEDULE

TAG	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUBTOTAL (CFM)
AHU-1	900	900	0	0	0
AHU-2	1400	1400	0	0	0
AHU-3	335	335	0	0	0
AHU-5	2800	1925	875	0	875
AHU-6	950	850	100	0	100
EF-1	0	0	0	1075	-1075
NET PRESSURIZATION (CFM):					-100

MOTORIZED DAMPER SCHEDULE

TAG	OPERATION	FAIL POSITION	SPRING RETURN	VOLTAGE	REMARKS
MD-1	TWO-POSITION	CLOSED	YES	120	DAMPER SHALL POWER OPEN WHEN THE SPACE IS IN OCCUPIED MODE.

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
CD1	PLAQUE FACE DIFFUSER	24'' x 24''	<varies>	WHITE	LAY-IN	GC	GC	TITUS	OMNI-AA	PROVIDE WITH INTEGRAL OBD AND DIRECTIONAL BLOW CLIPS (WHEN INDICATED ON PLAN)
CD2	PLAQUE FACE DIFFUSER	24'' x 24''	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	OMNI-AA	PROVIDE WITH INTEGRAL OBD AND DIRECTIONAL BLOW CLIPS (WHEN INDICATED ON PLAN)
CD3	PLAQUE FACE DIFFUSER	12'' x 12''	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	OMNI	PROVIDE WITH INTEGRAL OBD
ED1	PLAQUE FACE EXHAUST	12''x12''	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	OMNI	PROVIDE WITH INTEGRAL OBD
EG1	PERFORATED CEILING EXHAUST	24'' x 24''	STEEL	WHITE	LAY-IN	GC	GC	TITUS	PAR	PROVIDE INTEGRAL OBD
EG2	3/4" SPACING, 35° DEGREE DEFLECTION RETURN GRILLE	8'' x 8''	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	350RL	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	24'' x 24''	ALUMINUM	WHITE	LAY-IN	GC	GC	TITUS	PAR	
RG2	3/4" SPACING, 35° DEGREE DEFLECTION RETURN GRILLE	REF. TO NECK SIZE	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	350RL	PROVIDE INTEGRAL OBD
SG1	DOUBLE DIRECTIONAL SUPPLY REGISTER	REF. TO NECK SIZE	STEEL	WHITE	SURFACE	GC	GC	TITUS	300FL	PROVIDE INTEGRAL OBD

BRANCH CONTROLLER SCHEDULE

TAG	DESCRIPTION	NUMBER OF PORTS	ELECTRICAL MOCP (A)	ELECTRICAL FLA (A)	ELECTRICAL V/P/H	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
BC-1	XXX BRANCH CONTROLLER	8	15	0.7		OWNER	GC	TRANE	TCMBM0108JA114N4	

RECIRCULATING HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM AIRFLOW [CFM]	APPROXIMATE WEIGHT [lbs]	SUPPLIER	INSTALLER	ELECTRICAL DATA WATTS	ELECTRICAL DATA V/P/H	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
HD-1	VENTLESS CANOPY RECIRCULATING HOOD	N/A	415	175	KES	KES	170 W	120/1/60	RATIONAL	60.76.177	UL 710B COOKING APPLIANCE WITH A GREASE DISCHARGE LESS THAN 5.0 E-06 KG/CUBIC METER WHERE OPERATED WITH A TOTAL AIRFLOW OF 500 CFM

FAN SCHEDULE

TAG	EXHAUST AIRFLOW (CFM)	E.S.P. (IN. W.C.)	DRIVE TYPE	MOTOR POWER (HP)	WEIGHT (LB)	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	ELECTRICAL V/P/H	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
EF-1	1075	0.8	DIRECT	1.00	300	14.5	25	120/1/60	GC	GC	CAPTIVEAIRE	USBI13DD-RM	FURNISHED WITH SPEED CONTROLLER, MOUNTING RAILS WITH SPRING VIBRATION ISOLATORS, BACKDRAFT DAMPER AND RAIN CAP ASSEMBLY.

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	PAIRED WITH	NUMBER OF COMPRESSORS	REFRIGERANT TYPE	WEIGHT (LB)	ELECTRICAL MOCP	ELECTRICAL MCA	ELECTRICAL V/P/H	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	N/A	1	R448A	260	25	16.3	208/1/60	KES	KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER.
CU-2	HVAC SYSTEM CONDENSING UNIT	AHU-1 THRU AHU-6	1	R410A	1500	70	47.0	208/3/60	LANDLORD	LANDLORD 2	MITSUBISHI	PURH-HP240TSNU-A	LANDLORD TO PROVIDE WITH STANDS, TWINNING KIT, SNOW/HAIL GUARDS, AND LOW-AMBIENT KIT.

LOUVER SCHEDULE

TAG	DESCRIPTION	SIZE FACE SIZE (W" x H")	SIZE FREE AREA (SF)	AIRFLOW TOTAL AIRFLOW (CFM)	AIRFLOW PRESSURE DROP (IN W.C.)	MATERIAL	FINISH	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	SPECIAL REMARKS
LV-1	VENTILATION AIR LOUVER	34"x18"	1.85	975	0.04	ALUMINUM	TO MATCH EXISTING	GC	GC	RUSKIN	ELF6375DX	FURNISHED WITH BIRDSCREEN AND MOUNTING KIT COMPATIBLE WITH BUILDING CONSTRUCTION.

AIR CURTAIN SCHEDULE

TAG	DESCRIPTION	OPENING WIDTH	AIRFLOW MAX VELOCITY (FPM)	AIRFLOW AVERAGE VELOCITY (FPM)	AIRFLOW (CFM)	ELECTRICAL kW	ELECTRICAL MOCP (A)	ELECTRICAL MCA (A)	ELECTRICAL V/P/H	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
AC-1	AIR DOOR	84"	3388	1707	2351	15	60	45.0	208/3/60	GC	GC	BERNER	CLC08-2084E	FURNISHED WITH DOOR SWITCH, FACTORY INSTALLED FAN SPEED/HEAT SWITCH AND THERMAL OVERLOAD PROTECTION.

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02/21/2025

PROJECT INFORMATION:
PARK SLOPE

PROJECT INFORMATION:
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BROOKLYN, NY 11217

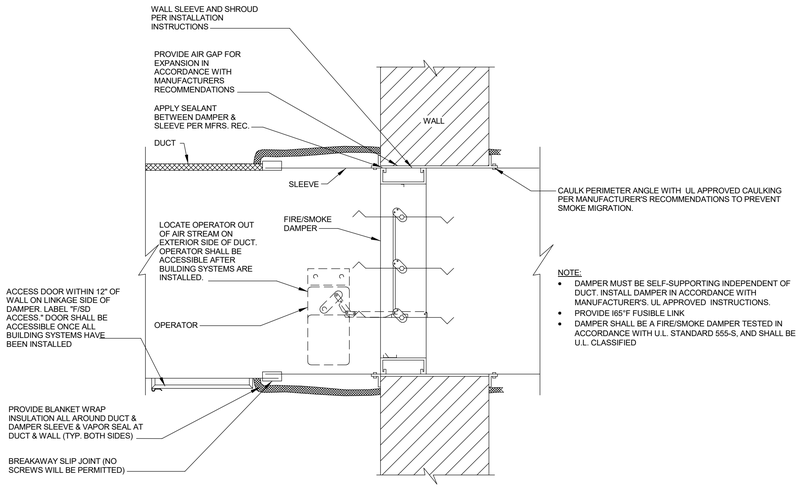
DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	JM
SG CONSTR. MANAGER:	JD
PROJECT NO:	240028
TEMPLATE VERSION:	12/30/2023

REVISIONS

REV.	DATE	DESCRIPTION
	08/29/2022	FOR PERMIT
1	09/16/2024	FOR PERMIT AMENDMENT
2	11/20/2024	HVAC REVISIONS

HVAC SCHEDULES

1 **M-300.02**
ENTIRE SHEET



7 **FIRE/SMOKE DAMPER DETAIL**
N.T.S.

SEQUENCE OF OPERATIONS AHU-1 THRU AHU-4

OCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE AIR HANDLER FANS ARE TO START AND RUN CONTINUOUSLY.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 72 DEGREES (ADJUSTABLE) THE HEATING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE 75 DEGREES (ADJUSTABLE) THE COOLING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.

UNOCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE AIR HANDLER FANS ARE TO BE OFF AND THE OUTSIDE AIR DAMPERS SHALL REMIAN CLOSED.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 65 DEGREES (ADJUSTABLE), THE FAN SHALL START AND THE HEATING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE 85 DEGREES (ADJUSTABLE) THE AIR HANDLER FANS SHALL START AND THE COOLING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.

EMERGENCY MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP.

SEQUENCE OF OPERATIONS EF-1

OCCUPIED MODE:
FAN OPERATION: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE EXHAUST FAN IS TO START AND RUN CONTINUOUSLY.

UNOCCUPIED MODE:
FAN OPERATION: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE EXHAUST FAN SHALL REMAIN OFF.

EMERGENCY MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP.

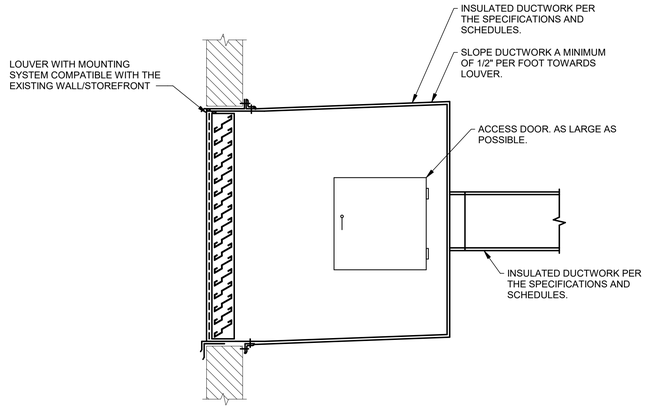
SEQUENCE OF OPERATIONS AHU-5, AHU-6

OCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE AIR HANDLER FANS ARE TO START AND RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPERS SHALL POWER TO THE OPEN POSITION.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 72 DEGREES (ADJUSTABLE) THE HEATING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE 75 DEGREES (ADJUSTABLE) THE COOLING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.

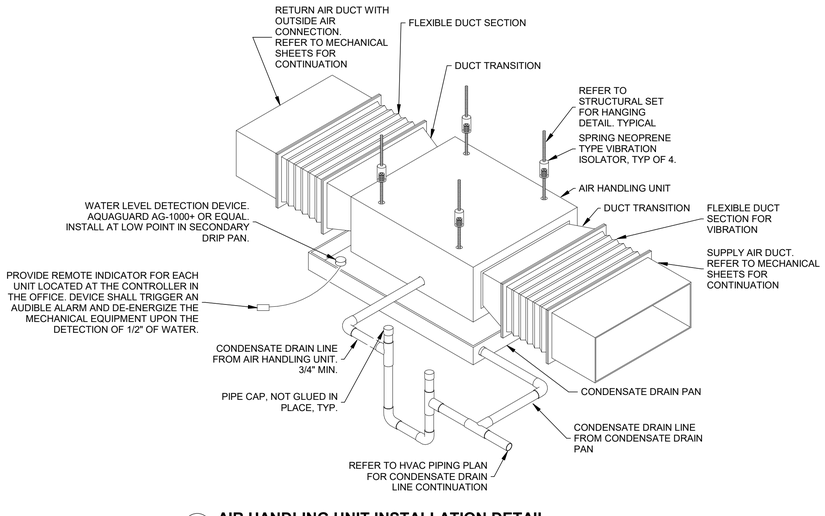
UNOCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE AIR HANDLER FANS ARE TO BE OFF AND THE OUTSIDE AIR DAMPERS SHALL REMIAN CLOSED.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 65 DEGREES (ADJUSTABLE), THE FAN SHALL START AND THE HEATING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE 85 DEGREES (ADJUSTABLE) THE AIR HANDLER FANS SHALL START AND THE COOLING MODE SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT.

EMERGENCY MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

3 **SEQUENCE OF OPERATIONS**
N.T.S.



6 **LOUVER INSTALLATION DETAIL**
N.T.S.



2 **AIR HANDLING UNIT INSTALLATION DETAIL**
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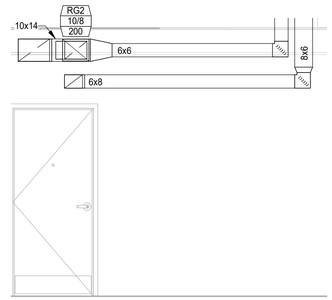

8 **CELLAR SECTION**
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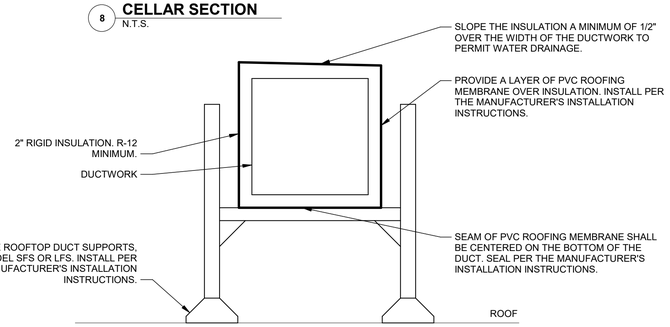
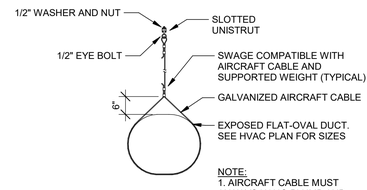
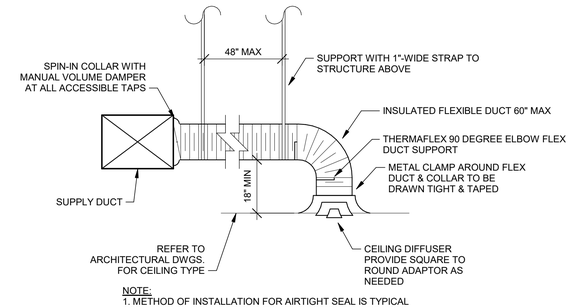


5 **ROOF-MOUNTED DUCTWORK DETAIL**
N.T.S.



4 **EXPOSED DUCTWORK SUPPORT**
N.T.S.



1 **DIFFUSER CONNECTION**
N.T.S.

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TEMPLATE VERSION: 12/30/2023

REVISIONS

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HVAC DETAILS

1
M-400.01
ENTIRE SHEET