

MECHANICAL LEGEND AND ABBREVIATIONS

EQUIPMENT ABBREVIATIONS

ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
CU	CONDENSING UNIT
EF	EXHAUST FAN
EHC	ELECTRIC HEATING COIL
F	FILTER
FSD	FIRE AND SMOKE DAMPER
HC	HEATING COIL
HP	HEAT PUMP
P	PUMP
RF	RETURN FAN
SD	SMOKE DAMPER
SF	SUPPLY FAN

EQUIPMENT TAG LEGEND

	EQUIPMENT DESIGNATION		EQUIPMENT TYPE EQUIPMENT FLOOR AND NUMBER
	CEILING DIFFUSER DEVICE DESIGNATION		TYPE NECK SIZE CFM
	LINEAR DIFFUSER DEVICE DESIGNATION		TYPE LENGTH & SLOT SIZE PLENUM INLET SIZE CFM
	SIDEWALL REGISTER DEVICE DESIGNATION		TYPE FACE SIZE CFM

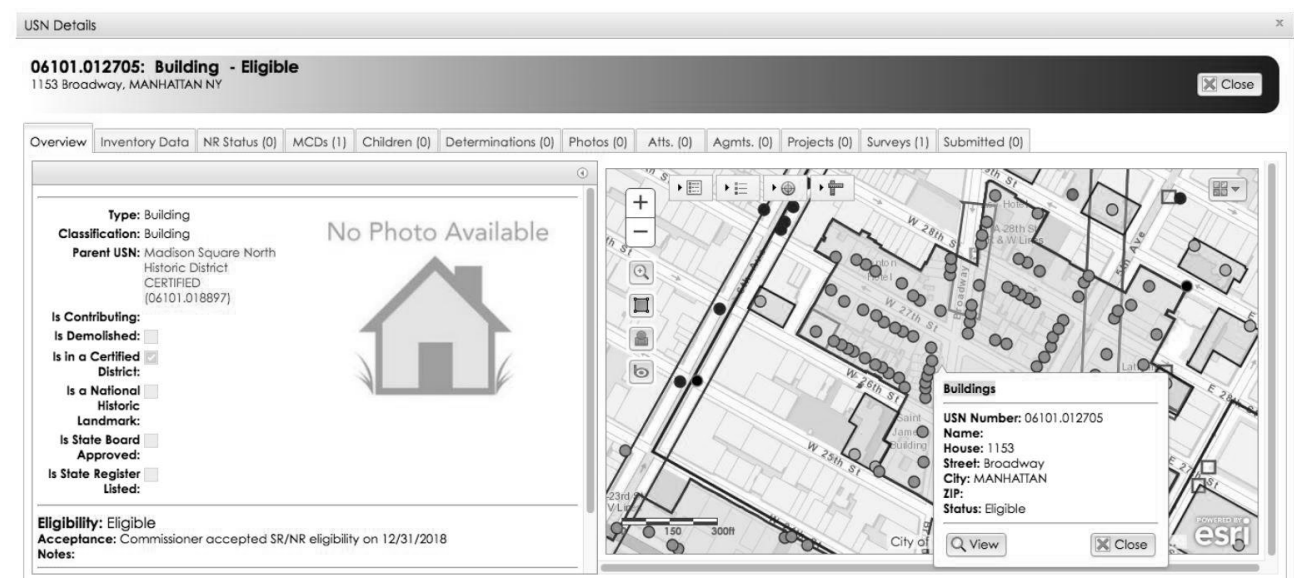
HVAC CODE COMPLIANCE
2022 NEW YORK CITY BUILDING CODE
2022 NEW YORK CITY MECHANICAL CODE

TR-1 SPECIAL INSPECTION

- MECHANICAL SYSTEMS (BC 1704.16)
- POST INSTALLED ANCHORS (BC1704.32)
- FINAL INSPECTION (28-11.2.4.2, BC110, DIR 14, 1RCNY 101-10)



PROJECT ADDRESS: 1153 BROADWAY, NEW YORK, NY 10001
BLOCK: 828
LOT: 51
ZONING DISTRICT: M1-6
ZONING USE GROUP: COMMERCIAL AND OFFICE
ZONING MAP: 8D
NUMBER OF FLOORS: 4
DISTRICT: MADISON SQUARE NORTH HISTORIC DISTRICT



GENERAL ABBREVIATIONS

ABV	ABOVE
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
BD	BALANCING DAMPER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CR	CEILING REGISTER
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
*F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR
FLR	FLOOR
FRE	FIRE RATED ENCLOSURE
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
ID	INSIDE DIMENSION
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOURS
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MFG	MANUFACTURER
MIN	MINIMUM
(N)	NEW
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN THIS CONTRACT
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OB	OPPOSED BLADE DAMPER
OD	OUTSIDE DIMENSION
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH (GAUGE)
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAD	SEE ARCHITECTURAL DRAWINGS
SENS	SENSIBLE
SM	SHEET METAL
SP	STATIC PRESSURE
SQFT	SQUARE FEET
TRD	TRANSFER DUCT
TRG	TRANSFER GRILLE
TX	TOILET EXHAUST
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
(X)	EXISTING TO BE DEMOLISHED
(300)	CUBIC FEET OF AIR PER MINUTE OR GALLONS PER MINUTE

PIPING LEGEND

	REFRIGERANT LIQUID PIPING
	REFRIGERANT SUCTION PIPING
	DOMESTIC COLD WATER MAKE-UP
	DRAIN LINE
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR
	CONCENTRIC REDUCER (INCREASER)
	ECCENTRIC REDUCER (INCREASER)
	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPED CHANGE IN PIPE ELEVATION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE
	AUTOMATIC FLOW CONTROL VALVE
	CALIBRATED BALANCE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE-WAY CONTROL VALVE
	AUTOMATIC TWO-WAY CONTROL VALVE
	RELIEF VALVE
	ANGLE RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	SOLENOID VALVE
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	"Y" TYPE STRAINER
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	TEMPERATURE-PRESSURE TEST FITTING
	PIPE BEAM PENETRATION
	PIPE CAP
	PIPE BLIND FLANGE

DUCTWORK LEGEND

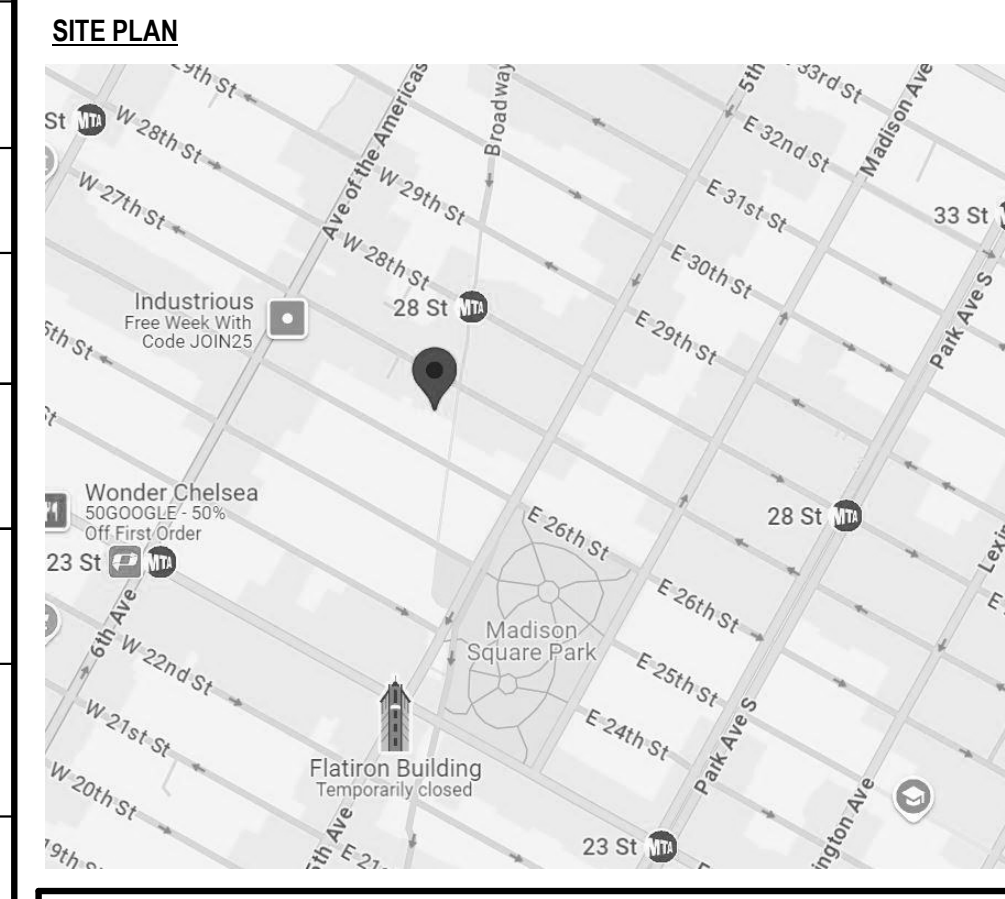
	RECTANGULAR DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST DIMENSION INDICATES VISIBLE SIDE
	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	FLAT-OVAL DUCT SIZE FIRST DIMENSION INDICATES VISIBLE SIDE
	DUCT SPLIT WITH SPLIT SIZE
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
	RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
	FLEXIBLE CONNECTION
	VOLUME DAMPER IN DUCT
	AUTOMATIC CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
	SMOKE DAMPER WITH DUCT ACCESS DOOR
	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
	CEILING DIFFUSER WITH AND WITHOUT FLEXIBLE DUCT CONNECTION
	RETURN REGISTER OR GRILLE WITH AND WITHOUT FLEXIBLE DUCT CONNECTION
	EXHAUST REGISTER OR GRILLE WITH AND WITHOUT FLEXIBLE DUCT CONNECTION

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M-001.00	MECHANICAL LEGENDS AND ABBREVIATIONS
M-002.00	MECHANICAL SPECIFICATIONS SHEET #1
M-003.00	MECHANICAL SPECIFICATIONS SHEET #2
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M-601.00	MECHANICAL DETAILS SHEET #1
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M-701.00	MECHANICAL SCHEDULES

MISCELLANEOUS

	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION
	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION
	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE
	STATIC PRESSURE SENSOR WITH DESIGNATION
	REFRIGERANT SENSOR WITH DESIGNATION
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
	POINT OF DISCONNECT FROM EXISTING WORK
	DIAMETER
	UNDERCUT DOOR
	SECTION DESIGNATION
	SECTION NUMBER DRAWING NUMBER
	DETAIL DESIGNATION
	DETAIL NUMBER DRAWING NUMBER



HVAC SOPE OF WORK
THIS SPACE HAS EXISTING INDOOR VRF EVAPORATOR UNITS AND OUTDOOR VRF CONDENSING UNITS. EXISTING DUCTWORK WILL BE DEMOLISHED BACK TO EXISTING EQUIPMENT AND NEW DUCTWORK WILL BE EXTENDED FROM THE EVAPORATOR UNITS TO SERVE THE SPACE. A NEW KITCHEN EXHAUST FAN WILL BE PROVIDED TO SUPPORT TYPE II COOKING OPERATIONS.

ENERGY CODE COMPLIANCE NOTE
TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, ALL WORK UNDER THIS APPLICATION IS EXEMPT FROM THE NYCECC. THE BUILDING HAS BEEN DETERMINED TO BE LISTED IN THE NEW YORK STATE REGISTER OF HISTORIC PLACES BY THE NEW YORK STATE COMMISSIONER OF PARKS, RECREATION, AND HISTORIC PRESERVATION (BUILDING USN NUMBER: 06101.012705). PER SECTION ECC 202, THIS BUILDING IS DEFINED AS A HISTORIC BUILDING. THEREFORE, PER ECC SECTION 101.17, THIS BUILDING IS EXEMPT FROM THE REQUIREMENTS OF THIS NYCECC.



sweetgreen

3102 WEST 36TH STREET
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:

MEYERS+
ENGINEERS

275 Madison Avenue, Suite 1200 332.240.0500
New York, NY 10016 meyersplus.com

STAMP:

PROJECT INFORMATION:
NOMAD RELOCATION
1153 BROADWAY
NEW YORK, NY 10001

DRAWN BY: Author
CHECKED BY: Checker
PROJECT MANAGER:
SG DESIGN MANAGER:
SG DM CHECKED BY:
SG CONSTR. MANAGER:
PROJECT NO. 24.20126.000
TEMPLATE VERSION: 2401

REV.	DATE	DESCRIPTION
	04/21/2025	80% SUBMISSION
	05/02/2025	ISSUE FOR PERMIT
1	05/21/2025	LL REVISIONS
2	06/16/2025	LL REVISIONS

MECHANICAL LEGENDS AND ABBREVIATIONS

DOB NOW JOB #

M-001.00

MECHANICAL LEGEND AND ABBREVIATIONS

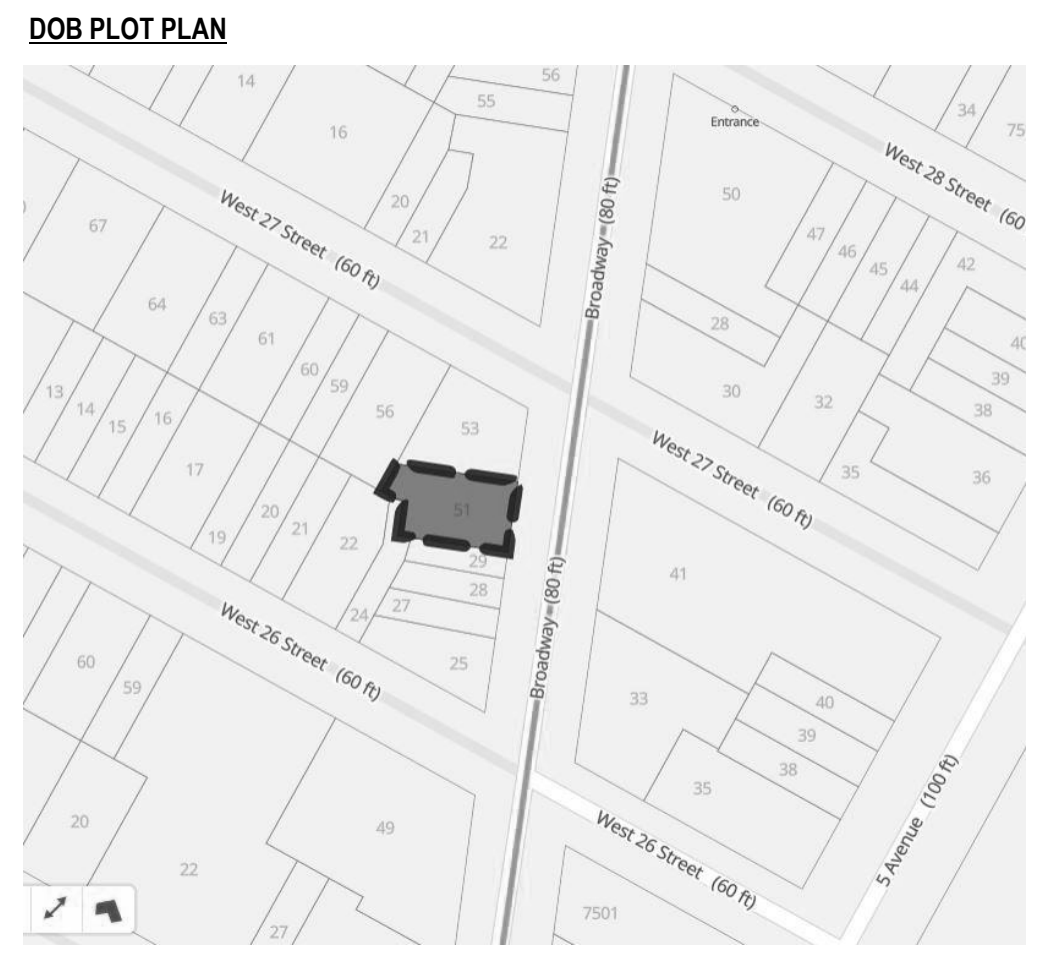
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EQUIPMENT TAG LEGEND			
	EQUIPMENT DESIGNATION		EQUIPMENT TYPE
			FLOOR AND NUMBER
CD-A 12x12 (550)	CEILING DIFFUSER DEVICE DESIGNATION	CD-A 12x12 (550)	TYPE NECK SIZE CFM
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SR-A 24x10 (430)	SIDEWALL REGISTER DEVICE DESIGNATION	SR-A 24x10 (430)	TYPE FACE SIZE CFM

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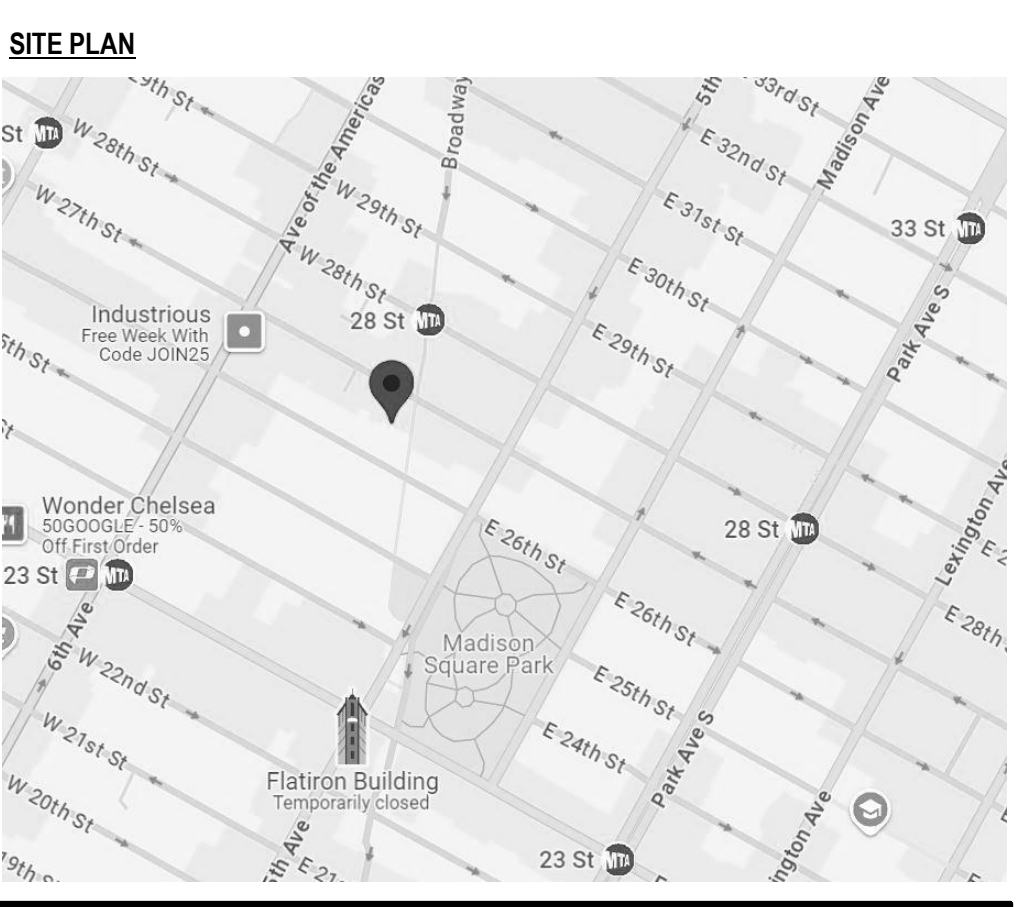
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PIPING LEGEND	
	REFRIGERANT LIQUID PIPING
	REFRIGERANT SUCTION PIPING
	DOMESTIC COLD WATER MAKE-UP
	DRAIN LINE
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR
	CONCENTRIC REDUCER (INCREASER)
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	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	ELBOW TURNED UP
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	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
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	MANUAL AIR VENT
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	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	TEMPERATURE-PRESSURE TEST FITTING
	PIPE BEAM PENETRATION
	PIPE CAP
	PIPE BLIND FLANGE

DUCTWORK LEGEND	
	RECTANGULAR DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST DIMENSION INDICATES VISIBLE SIDE
	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	FLAT-OVAL DUCT SIZE FIRST DIMENSION INDICATES VISIBLE SIDE
	DUCT SPLIT WITH SPLIT SIZE
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
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	FLEXIBLE CONNECTION
	VOLUME DAMPER IN DUCT
	AUTOMATIC CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
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MECHANICAL SHEET LIST	
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M-701.00	MECHANICAL SCHEDULES

MISCELLANEOUS	
	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION
	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION
	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE
	STATIC PRESSURE SENSOR WITH DESIGNATION
	REFRIGERANT SENSOR WITH DESIGNATION
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
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	DIAMETER
	UNDERCUT DOOR
	SECTION DESIGNATION
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HVAC SOPE OF WORK

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ENGINEER OF RECORD:
MEYERS+
ENGINEERS

275 Madison Avenue, Suite 1200 332.240.0500
New York, NY 10016 meyersplus.com

STAMP:



PROJECT INFORMATION:
NOMAD RELOCATION
1153 BROADWAY
NEW YORK, NY 10001

DRAWN BY: Author
CHECKED BY: Checker
PROJECT MANAGER:
SG DESIGN MANAGER:
SG DM CHECKED BY:
SG CONSTR. MANAGER:
PROJECT NO: 24.20126.000
TEMPLATE VERSION: 2401

REVISIONS		
REV.	DATE	DESCRIPTION
1	04/21/2025	80% SUBMISSION
2	05/02/2025	ISSUE FOR PERMIT
2	08/01/2025	PERMIT AMENDMENT

MECHANICAL LEGENDS AND ABBREVIATIONS

DOB NOW JOB # M01217029-P1

M-001.01

SECTION 23 00 00
HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS

23 05 01 - HVAC GENERAL PROVISIONS

A. THE GENERAL, SUPPLEMENTARY CONDITIONS AND ANY ARCHITECTURAL SPECIFICATIONS ARE A PART OF THE REQUIREMENTS FOR THE WORK UNDER THIS DIVISION OF THE SPECIFICATION.

B. PROVIDE LABOR AND MATERIALS REQUIRED TO INSTALL, TEST AND PLACE INTO OPERATION THE HEATING, VENTILATING, AND AIR CONDITIONING, AS CALLED FOR IN THE CONTRACT DOCUMENTS, AND ACCORDING TO THE INTERNATIONAL BUILDING CODE AS AMENDED BY THE CITY OF NEW YORK.

C. PROVIDE LABOR, MATERIALS, AND ACCESSORIES REQUIRED TO PROVIDE COMPLETE OPERATING MECHANICAL SYSTEMS AS DESCRIBED OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL FOR A COMPLETE OPERATING SYSTEM.

D. DRAWINGS, SPECIFICATIONS, CODES, AND STANDARDS ARE MINIMUM REQUIREMENTS. WHERE REQUIREMENTS DIFFER, APPLY THE MORE STRINGENT.

E. SHOULD ANY CHANGE IN DRAWINGS OR SPECIFICATIONS BE REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, NOTIFY THE ARCHITECT PRIOR TO SUBMITTING BID.

F. EXECUTE WORK IN STRICT ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES IN A THOROUGH, SUBSTANTIAL, SKILLFUL AND WELL-EXECUTED MANNER BY COMPETENT WORKERS. PROVIDE A COMPETENT, EXPERIENCED FULL-TIME SUPERINTENDENT WHO IS AUTHORIZED TO MAKE DECISIONS ON BEHALF OF THE CONTRACTOR.

G. APPLICABLE EQUIPMENT AND MATERIALS TO BE LISTED BY UNDERWRITERS' LABORATORIES AND MANUFACTURED IN ACCORDANCE WITH ASME, ANSI, OR ANSI STANDARDS, AND AS APPROVED BY AUTHORITIES HAVING JURISDICTION. THE ENERGY USING PRODUCTS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE AS AMENDED BY THE CITY OF NEW YORK.

H. SUBMIT SHOP DRAWINGS, MANUFACTURER'S DATA, SAMPLES, AND TEST REPORTS (THREE COPIES MINIMUM), CONTRACTOR SHALL ALLOW FIVE WORKING DAYS MINIMUM REVIEW FROM THE TIME IT IS RECEIVED BY THE ENGINEER.

I. THE CONTRACT DOCUMENTS SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK, PIPING, AND ACCESSORIES. FOLLOW THESE DRAWINGS AS CLOSELY AS THE ACTUAL CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. PROVIDE OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED BUT NOT SHOWN ON THE DRAWINGS. INVESTIGATE THE SITE AND REVIEW DRAWINGS OF OTHER TRADES TO DETERMINE CONDITIONS AFFECTING THE WORK AND PROVIDE SUCH WORK AND ACCESSORIES AS MAY BE REQUIRED TO ACCOMMODATE SUCH CONDITIONS.

J. PROVIDE FIRESTOPPING AROUND ALL PIPES, CONDUITS, DUCTS, ETC. WHICH PASS THROUGH RATED WALLS, PARTITIONS, AND FLOORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED APPROVAL LISTING AND RATING.

K. BEFORE COMMENCING WORK, EXAMINE ADJOINING WORK ON WHICH THIS WORK IS IN ANY WAY DEPENDENT AND REPORT CONDITIONS WHICH PREVENT PERFORMANCE OF THE WORK. BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE CHANGED OR ALTERED.

L. DEFINITIONS:

- "PROVIDE" MEANS TO "FURNISH" AND "INSTALL".
- "INSTALL" MEANS TO JOIN, UNITE, FASTEN, LINK, ATTACH, SET UP OR OTHERWISE CONNECT TOGETHER BEFORE TESTING AND TURNING OVER TO OWNER, COMPLETE AND READY FOR REGULAR OPERATION.
- "FURNISH" MEANS TO SUPPLY ALL MATERIALS, LABOR, EQUIPMENT, TESTING APPARATUS, CONTROLS, TESTS, ACCESSORIES, AND ALL OTHER ITEMS CUSTOMARILY REQUIRED FOR THE PROPER AND COMPLETE APPLICATION.
- "AS DIRECTED" MEANS AS DIRECTED BY THE ARCHITECT OR THE ARCHITECT'S REPRESENTATIVE.
- "CONCEALED" MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED BEHIND WALL, FURRING OR WITHIN DOUBLE PARTITIONS, OR INSTALLED WITHIN HUNG CEILINGS.
- "SUBMIT" MEANS SUBMIT TO THE ARCHITECT FOR REVIEW.

M. EVALUATE EXISTING CONDITIONS WHICH MAY AFFECT METHODS OR COST OF PERFORMING THE WORK, BASED ON EXAMINATION OF THE SITE OR OTHER INFORMATION. FAILURE TO EXAMINE THE DRAWINGS, THIS DOCUMENT OR OTHER INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR SATISFACTORY COMPLETION OF THE WORK.

N. PROVIDE TWO (2) COPIES OF OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS DIVISION UPON TWO (2) WEEKS AFTER COMPLETION OF PROJECT.

O. MAINTAIN ON A DAILY BASIS AT THE PROJECT SITE A COMPLETE SET OF RECORD DRAWINGS, REFLECTING AN ACCURATE DIMENSIONAL RECORD OF ALL DEVIATIONS BETWEEN WORK SHOWN ON DRAWINGS AND THAT ACTUALLY INSTALLED.

P. COORDINATE WITH BUILDING MANAGEMENT, THE REQUIREMENTS FOR AFTER-HOURS WORK NEEDED FOR TENANT TIE-INS TO BASE BUILDING SYSTEMS.

Q. LOCATE ALL EQUIPMENT NEEDING SERVICE IN ACCESSIBLE LOCATIONS AND ON ONE SIDE OF THE UNIT WHEN POSSIBLE. COORDINATE WITH GENERAL CONTRACTORS TO PROVIDE ACCESS PANELS IN INACCESSIBLE CEILINGS. MINOR DEVIATIONS FROM DRAWINGS CAN BE MADE IN ORDER TO PROVIDE BETTER ACCESSIBILITY.

R. ALL HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODES AND 2022 NYC MECHANICAL CODE AS AMENDED BY THE CITY OF NEW YORK AND REGULATIONS AND CONSTRUCTED IN ACCORDANCE WITH THE BEST GENERAL PRACTICE.

S. CONTRACTOR SHALL ALLOW FOR TESTING AND REBALANCING OF ALL EXISTING TO BE REUSED EQUIPMENT AS WELL AS NEW.

T. COORDINATE ALL WORK WITH EXISTING STRUCTURE, PIPING, AND CONDUITS.

U. OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS, AND INSPECTIONS.

V. OBTAIN WRITTEN PERMISSION OF OWNER BEFORE CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.

W. GUARANTEE WORK FOR ONE (1) YEAR FROM DATE OF FILING NOTICE OF COMPLETION.

X. REMOVE ALL ABANDONED MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK, PIPING, ETC., UNLESS OTHERWISE SPECIFIED BY OWNER.

Y. PRESSURE TEST EACH SYSTEM OF PIPING AND DUCTWORK AS SPECIFIED.

Z. SUBMITTALS AND REVIEWS:

- SUBMITTALS: PRIOR TO CONSTRUCTION SUBMIT FOR APPROVAL THE FOLLOWING MATERIALS AND EQUIPMENT. SUBMITTAL SHOULD BE SUBMITTED SEPARATELY BY NUMBERED SPECIFICATION SECTION AND SHOULD INCLUDE EQUIPMENT CUT SHEETS, DIMENSIONS, CAPACITIES, WIRING DIAGRAM AND ELECTRICAL LOADS, SPECIAL INSTALLATION DETAILS, ETC.
 - ELECTRIC MOTORS FOR HVAC EQUIPMENT
 - METERS, GAUGES, AND THERMOMETERS
 - GENERAL-DUTY VALVES
 - HANGERS AND SUPPORTS
 - VIBRATION ISOLATION
 - ACCESS DOORS
 - SYSTEMS IDENTIFICATION
 - TESTING, ADJUSTING, AND BALANCING
 - THERMAL INSULATION
 - BUILDING CONTROLS
 - SEQUENCE OF OPERATIONS
 - HYDRONIC PIPING
 - PUMPS

n. REFRIGERANT PIPING

o. HVAC DUCTS AND CASINGS

p. DAMPERS

q. ACOUSTICS

r. FANS

s. AIR OUTLETS AND INLETS

t. OTHER MISCELLANEOUS EQUIPMENT AS SPECIFIED AND OR SCHEDULED ON DRAWINGS.

2. ELECTRONIC SUBMITTALS:

- ELECTRONIC SUBMITTALS WHERE ACCEPTABLE TO THE ARCHITECT WILL BE SUBMITTED IN PDF FORMAT THROUGH A PROJECT FILE SHARING WEBSITE.
- IDENTIFY AND INCORPORATE INFORMATION IN EACH ELECTRONIC SUBMITTAL FILE AS FOLLOWS:
 - ASSEMBLE COMPLETE SUBMITTAL PACKAGE INTO A SINGLE INDEXED FILE INCORPORATING SUBMITTAL REQUIREMENTS OF A SINGLE SPECIFICATION SECTION AND TRANSMITTAL FORM WITH LINKS ENABLING NAVIGATION TO EACH ITEM.
 - NAME FILE WITH SUBMITTAL NUMBER OR OTHER UNIQUE IDENTIFIER, INCLUDING REVISION IDENTIFIER.
 - FILE NAME SHALL USE PROJECT IDENTIFIER AND SPECIFICATION SECTION NUMBER FOLLOWED BY A DECIMAL POINT AND THEN A SEQUENTIAL NUMBER (E.G., BV-230923.01). RESUBMITTALS SHALL INCLUDE AN ALPHABETIC SUFFIX AFTER ANOTHER DECIMAL POINT (E.G., BV-230923.01.A).
 - PROVIDE MEANS FOR INSERTION TO PERMANENTLY RECORD CONTRACTOR'S REVIEW AND APPROVAL MARKINGS AND ACTION TAKEN BY ARCHITECT.
- TRANSMITTAL FORM FOR ELECTRONIC SUBMITTALS: USE ELECTRONIC FORM ACCEPTABLE TO ARCHITECT, CONTAINING THE FOLLOWING INFORMATION:
 - PROJECT NAME
 - DATE
 - NAME AND ADDRESS OF ARCHITECT AND ENGINEER
 - NAME OF OWNER
 - NAME OF CONTRACTOR
 - NAME OF FIRM OR ENTITY THAT PREPARED SUBMITTAL
 - NAMES OF SUBCONTRACTOR, MANUFACTURER, AND SUPPLIER
 - CATEGORY AND TYPE OF SUBMITTAL
 - SPECIFICATION SECTION NUMBER AND TITLE
 - DRAWING NUMBER AND DETAIL REFERENCES, AS APPROPRIATE
 - RELATED PHYSICAL SAMPLES SUBMITTED DIRECTLY
 - INDICATION OF FULL OR PARTIAL SUBMITTAL
 - TRANSMITTAL NUMBER (NUMBERED CONSECUTIVELY)
 - SUBMITTAL AND TRANSMITTAL DISTRIBUTION RECORD
 - REMARKS
- METADATA: INCLUDE THE FOLLOWING INFORMATION AS KEYWORDS IN THE ELECTRONIC SUBMITTAL FILE METADATA:
 - PROJECT NAME
 - NUMBER AND TITLE OF APPROPRIATE SPECIFICATION SECTION.
 - MANUFACTURER NAME
 - PRODUCT NAME

3. PREPARE AND SUBMIT DETAILED SHOP DRAWINGS FOR DUCTWORK, PIPING WORK AND OTHER DISTRIBUTION SERVICES IN MINIMUM 1/4" X 1" TO 1" X 1" SCALE, INCLUDING ELEVATIONS AND LOCATIONS AND SIZES OF OPENINGS IN FLOOR DECKS, WALLS AND ROOFS.

4. HVAC DESIGN DRAWINGS SHALL NOT BE SUBMITTED AS SHEET METAL SHOP DRAWINGS.

5. THE WORK DESCRIBED IN SHOP DRAWING AND PRODUCT DATA SUBMITTALS SHALL BE CAREFULLY CHECKED BY ALL TRADES FOR CLEARANCES (INCLUDING THOSE REQUIRED FOR CODE COMPLIANCE, MAINTENANCE, AND SERVICING), FIELD CONDITIONS, MAINTENANCE OF ARCHITECTURAL CONDITIONS, AND PROPER COORDINATION WITH OTHER TRADES ON THE JOB. EACH SUBMITTED SHOP DRAWING TO INCLUDE A CERTIFICATION THAT RELATED FIELD CONDITIONS AND REQUIREMENTS HAVE BEEN CHECKED BY ALL CONTRACTORS AND SUBCONTRACTORS AND THAT CONFLICTS DO NOT EXIST.

6. NO PART OF THE WORK SHALL BE ORDERED, PROCURED, STARTED IN THE SHOP OR IN THE FIELD UNTIL THE SHOP DRAWINGS AND SAMPLES FOR THAT PORTION OF THE WORK HAVE BEEN SUBMITTED, REVIEWED AND RETURNED WITH EITHER "NO EXCEPTIONS NOTED" OR "EXCEPTIONS NOTED" MARKED ON THE SUBMISSION.

7. REVIEW OF SUBMITTALS IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS. COMMENTS OR ABSENCE OF COMMENTS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR DETAILS AND ACCURACY. FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATION PROCESSES, FOR TECHNIQUES OF CONSTRUCTION, FOR PERFORMING THE WORK IN A SAFE MANNER, AND FOR COORDINATING THE WORK WITH THAT OF OTHER TRADES.

AA. ALTERNATIVE EQUIPMENT AND MATERIALS

- CONTRACT DOCUMENTS ARE BASED ON MATERIALS SPECIFIED AND ON EQUIPMENT MANUFACTURERS INDICATED. ACCEPTANCE OF ALTERNATIVE EQUIPMENT MANUFACTURERS DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO PROVIDE EQUIPMENT AND MATERIALS THAT MEET THE QUALITY AND PERFORMANCE AS STATED OR IMPLIED IN THE CONTRACT DOCUMENTS.
- EQUIPMENT MANUFACTURERS LISTED IN INDIVIDUAL SECTIONS ARE ACCEPTABLE FOR THIS PROJECT, SUBJECT TO REQUIREMENTS OF CONTRACT DOCUMENTS.
- SUBMIT PROPOSALS TO SUPPLY ALTERNATE MATERIALS OR EQUIPMENT, IN WRITING, WITH SUFFICIENT LEAD TIME FOR REVIEW PRIOR TO THE DATE EQUIPMENT MUST BE ORDERED TO MAINTAIN PROJECT SCHEDULE. REIMBURSE OWNER FOR COSTS ASSOCIATED WITH THE REVIEW OF THE PROPOSED ALTERNATIVE WHETHER ALTERNATIVE IS ACCEPTED OR REJECTED.
- INCLUDE REVISIONS REQUIRED TO ADAPT ALTERNATIVES IN SUCH PROPOSALS, INCLUDING REVISIONS BY OTHER TRADES. NO INCREASE IN THE CONTRACT PRICE WILL BE CONSIDERED TO ACCOMMODATE THE USE OF ALTERNATIVE EQUIPMENT.
- WHEREVER QUALITY STANDARDS (SUCH AS SERVICEABILITY, ENERGY EFFICIENCY, LONGEVITY, OR DURABILITY) AND OPERATING RESULTS (SUCH AS NOISE LEVELS, QUANTITY DELIVERED, OR PRESSURE OBTAINED) ARE SPECIFIED OR SCHEDULED, OR WHEN THE MANUFACTURER AND SIZE OF EQUIPMENT, FOR WHICH SUCH OPERATING RESULTS ARE PUBLISHED OR DETERMINABLE, IS SPECIFIED, THE SUBSTITUTION BEING PROPOSED MUST CONFORM SUBSTANTIALLY TO THE QUALITY AND QUANTITIES SPECIFIED OR IMPLIED. THE SUBSTITUTION MUST FIT INTO AVAILABLE SPACE CONDITIONS AND MUST FUNCTION PROPERLY IN COORDINATION WITH THE REST OF THE SYSTEM.
- PROPOSED CHANGES AND SUBSTITUTIONS OF SYSTEMS, EQUIPMENT, AND MANUFACTURERS SHALL BE SUBMITTED AND INCLUDE THE FOLLOWING INFORMATION WITH THE PROPOSAL:
 - A DESCRIPTION OF THE DIFFERENCE BETWEEN THE EXISTING CONTRACT REQUIREMENTS AND THAT PROPOSED, THE COMPARATIVE FEATURES OF EACH, AND THE EFFECT OF THE CHANGE ON THE END RESULT PERFORMANCE. INCLUDE THE IMPACT OF ALL CHANGES ON OTHER CONTRACTORS AND ACKNOWLEDGE THE INCLUSION OF ADDITIONAL COSTS TO OTHER TRADES.
 - SCHEMATIC DRAWINGS AND DETAILS TO SUPPLEMENT THE DESCRIPTION.
 - A LIST OF THE CONTRACT REQUIREMENTS THAT MUST BE REVISED IF THE CHANGE IS ACCEPTED, INCLUDING ANY SPECIFICATION REVISIONS.

d. COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR USE IN THE CHANGE.

e. INCLUDE A DESCRIPTION AND ESTIMATE OF COSTS THE OWNER MAY INCUR IN IMPLEMENTING THE CHANGE, SUCH AS ADDITIONAL SPACE REQUIREMENTS, PERMITS, ARCHITECTURAL AND AESTHETIC IMPACT, DESIGN COSTS, TESTS, PERMITS EVALUATION, OPERATING AND SUPPORT COSTS.

f. A PROJECTION OF ANY EFFECTS THE PROPOSED CHANGE WOULD HAVE ON COLLATERAL COSTS TO THE OWNER.

g. A STATEMENT OF THE TIME BY WHICH A CONTRACT MODIFICATION ACCEPTING THE CHANGE MUST BE ISSUED, NOTING ANY EFFECT ON THE CONTRACT COMPLETION TIME OR THE DELIVERY SCHEDULE.

h. A STATEMENT INDICATING THE REDUCTION TO THE CONTRACT PRICE IF THE OWNER ACCEPTS THE CHANGE. BE RESPONSIBLE FOR APPROPRIATE MODIFICATIONS TO ALL TRADES.

BB. RECORD DRAWINGS:

- THE CONTRACTOR SHALL MAINTAIN ON A DAILY BASIS AT THE PROJECT SITE A COMPLETE SET OF RECORD DRAWINGS. THE RECORD DRAWINGS SHALL INITIALLY CONSIST OF A SET OF BOND PAPER PRINTS OR AUTOCAD FILES OF THE CONTRACTOR'S COORDINATION DRAWINGS. THE PRINTS SHALL BE MARKED OR AUTOCAD FILES ELECTRONICALLY UPDATED TO SHOW THE PRECISE LOCATION OF ALL BURRED OR CONCEALED WORK AND EQUIPMENT, INCLUDING EMBEDDED PIPES AND VALVES, AND ALL CHANGES AND DEVIATIONS IN THE MECHANICAL WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS. THIS REQUIREMENT SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT OR WORK WITHOUT DEFINITE WRITTEN INSTRUCTIONS FROM THE ARCHITECT OR ENGINEER. THE UPDATED COORDINATION DRAWINGS SHALL BE USED TO PRODUCE THE FINAL RECORD DRAWINGS THAT SHALL BE DELIVERED TO THE OWNER IN AUTOCAD ELECTRONIC FORMAT MEDIA UPON PROJECT COMPLETION.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR AND SUBCONTRACTORS SHALL CERTIFY ALL RECORD DRAWINGS ON THE FRONT LOWER RIGHT HAND CORNER ADJACENT TO THE ABOVE MARKING WITH A RUBBER STAMP IMPRESSION OR AN AUTOCAD IMAGE.
- PRIOR TO FINAL ACCEPTANCE OF THE WORK OF THIS DIVISION, THE CONTRACTOR SHALL SUBMIT PROPERLY CERTIFIED RECORD DRAWINGS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND SHALL MAKE CHANGES, CORRECTIONS, OR ADDITIONS AS THE ARCHITECT AND/OR ENGINEER MAY REQUIRE TO THE RECORD DRAWINGS. SUBMITTED RECORD DRAWINGS SHALL BE ON ELECTRONIC MEDIA IN AUTOCAD 2010 OR LATER FORMAT AND ONE SET OF FULL-SIZE PRINTS. AFTER THE ARCHITECT'S AND ENGINEER'S REVIEW, AND ANY REQUIRED CONTRACTOR REVISIONS, THE RECORD DRAWINGS SHALL BE DELIVERED TO THE OWNER ON ELECTRONIC MEDIA IN AUTOCAD 2010 OR LATER FORMAT. THE ARCHITECT AND ENGINEER DO NOT ASSUME ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE RECORD DRAWINGS.

23 05 19 - METERS, GAUGES, AND THERMOMETERS

A. ACCEPTABLE MANUFACTURERS:

- PRESSURE GAUGES: WEISS, TRERICE, WEKSLER, TAYLOR, ASHCROFT
- PRESSURE/TEMPERATURE TEST PORTS: PETERSON ENGINEERING, TRERICE, WEKSLER
- THERMOMETERS: WEISS, TRERICE, WEKSLER, TAYLOR, ASHCROFT

B. PRESSURE GAUGES:

- 4 1/2 INCH DIAMETER IN METAL CASE, GLYCERINE FILLED PHOSPHOR BRONZE BOURDON TUBE, ROTARY BRASS MOVEMENT, BRASS SOCKET, AND 1/4 MID-SCALE ACCURACY WITH FRONT RECALIBRATION ADJUSTMENT, BLACK FIGURES ON WHITE BACKGROUND. PROVIDE BRASS NEEDLE OR GATE VALVE AND PULSATION DAMPER.

C. PRESSURE/TEMPERATURE TEST PORTS:

- PROVIDE TEST PORTS 1/2 INCH NPT MADE OF BRASS WITH NORDEL CORE. IN ADDITION, SUPPLY THREE (3) KITS CONSISTING OF 1/4 INCH NPT PRESSURE GAUGE, GAUGE ADAPTER WITH 1/4 INCH STEM AND 1.75 INCH DIAMETER DIAL. B-METAL THERMOMETER RANGE 20 DEGREES F TO 240 DEGREES F WITH 5 INCH STEM AND 1.75 INCH DIAMETER DIAL. EACH KIT TO BE PROVIDED IN AN IMPACT-RESISTANT CARRYING CASE. 1/4 INCH PROBE

D. THERMOMETERS:

- ADJUSTABLE ANGLE DIAL FACE, BI-METAL THERMOMETER, WITH 2 DEGREE F SCALE DIVISION, ACCURATE TO PLUS OR MINUS 1 PERCENT OF SCALE RANGE, TYPE 304 STAINLESS STEEL CASE AND BEZEL, SHATTER-PROOF GLASS WINDOW, SILICONE FILLED.
- FOR PIPES UP TO 2 INCH DIAMETER, WEISS MODEL SF3VBM, OR EQUAL.
- FOR PIPES LARGER THAN 2 INCH DIAMETER, WEISS MODEL SF5VBM, OR EQUAL.
- THERMOMETERS SHALL HAVE THE FOLLOWING INSERTION LENGTHS:
 - UP TO 5 INCH PIPE: 2.5 INCHES
 - 6 INCH THRU 8 INCH PIPE: 4 INCHES
- PROVIDE TYPE 304 STAINLESS STEEL WELLS FOR ALL PIPE-MOUNTED THERMOMETERS.
- PROVIDE EXTENDED WELLS AND STEM LENGTH TO ACCOMMODATE INSULATION THICKNESS FOR INSULATED PIPE APPLICATIONS.

E. INSTALLATION SCHEDULE:

- PRESSURE GAUGES:
 - PUMPS, INLET AND OUTLET.
 - OTHER LOCATIONS AS INDICATED ON DRAWINGS.
- STEM-TYPE THERMOMETERS:
 - OTHER LOCATIONS AS INDICATED ON DRAWINGS.
- PRESSURE/TEMPERATURE TEST PORTS:
 - PUMPS, INLET AND OUTLET
 - ALL AUTOMATIC CONTROL VALVES, INLET AND OUTLET
 - COOLING AND HEATING COLS, INLET AND OUTLET
 - OTHER LOCATIONS AS INDICATED ON DRAWINGS.

P. PROVIDE 1 INCH DRAIN VALVES WITH THREADED ENDS FOR HOSE CONNECTIONS AT DRAIN POINTS, AT MAIN SHUT-OFF VALVES, LOW POINTS OF PIPING SYSTEMS, BASES OF VERTICAL RISERS, AND AT EQUIPMENT.

Q. PROVIDE REQUIRED MANUAL OR AUTOMATIC VENT VALVES AT HIGH POINTS OF PIPING SYSTEMS TO FACILITATE VENTING OF AIR AND TO ENSURE QUIET OPERATION. PROVIDE PIPING FROM AIR VENTS TO A DRAIN.

R. PROVIDE RENEWABLE BRONZE SEAT RINGS AND BRONZE SPINDLES FOR CAST IRON BODY VALVES.

S. PROVIDE AN ISOLATION VALVE IN THE COMMON SUPPLY LINE AND AN INDIVIDUAL BALANCE VALVE IN THE RETURN LINE FROM EACH HYDRONIC COIL, HEAT EXCHANGER, AND ALL HEAT TRANSFER ELEMENTS.

T. PROVIDE AN ISOLATION VALVE IN EACH SUPPLY RISER NEAR MAIN AND A BALANCING VALVE IN EACH RETURN RISER NEAR MAINS.

U. PROVIDE PRESSURE/TEMPERATURE TEST PORT FITTINGS AT EACH SIDE OF GLOBE VALVE.

V. USE PLASTIC-LINED VALVES WITH WETTED SURFACES MADE OF SAME MATERIAL AS OR COMPATIBLE WITH PIPING AND COMPATIBLE WITH SYSTEM LIQUID.

23 05 29 - HANGERS AND SUPPORTS

A. ACCEPTABLE MANUFACTURERS:

- PIPE HANGERS: ANVIL, FEE & MASON, ELCCN, TUBE-TURN, F&S, PIPE SHIELDS, B-LINE KINDORF, MICHIGAN HANGER, POWER STRUT, UNISTRUT, OR APPROVED EQUAL. ANVIL FIGURE NUMBERS ARE LISTED BELOW; EQUIVALENT MATERIAL BY SPECIFIED MANUFACTURERS IS ACCEPTABLE
- SLEEVES: PIPE SHIELDS, INSUL, RK INDUSTRIES
- PIPE WRAP TAPE: POLYCCN, NASSUA, 3M
- FIRESTOP: NELSON, DOW, 3M, HILTI
- ESCUTCHEON PLATES: BEATON & CORBIN MANUFACTURING
- MECHANICAL SLEEVE SEALS: PIPELINE SEAL AND INSULATOR, THUNDERLINE LINKSEAL, CALPICO PIPE LINX, METRAFLEX METRASEAL

B. SLEEVES:

- CONSTRUCT SLEEVES FOR PIPES PASSING THROUGH WALLS (OTHER THAN FOUNDATION WALLS), FLOORS, PARTITIONS, HUNG OR FURRED CEILINGS, ETC., OF MINIMUM 18 GAUGE GALVANIZED STEEL, FLANGED ON EACH SIDE OF WALL, PARTITION, HUNG OR FURRED CEILING, ETC.
- PROVIDE STANDARD WEIGHT GALVANIZED STEEL PIPE SLEEVES WITH WELDED ANCHOR FLANGES AT FOUNDATION WALLS AND REINFORCED CONCRETE OR MASONRY WALLS.
- PROVIDE 20 GAUGE GALVANIZED SHEET METAL SLEEVES, THE FULL DEPTH OF FLOOR OR WALL, FOR ROUND DUCTWORK PASSING THROUGH MASONRY OR CONCRETE AND/OR STEEL CELLULAR FLOOR CONSTRUCTION. RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH FRAMED OPENINGS THROUGH FLOOR AND WALL CONSTRUCTION.
- PROVIDE CAST IRON OR FABRICATED "WALL PIPE" EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, WITH FLANGE ENDS AND INTEGRAL WATERSTOP, UNLESS OTHERWISE INDICATED.
- STACK SLEEVE FITTINGS: PROVIDE MANUFACTURED, CAST-IRON SLEEVE WITH INTEGRAL CLAMPING FLANGE. INCLUDE CLAMPING RING, BOLTS, AND NUTS FOR MEMBRANE FLASHING AND UNDERDECK CLAMPING RING WITH SETSCREWS.
- PROVIDE MECHANICAL SLEEVE SEALS AT EXTERIOR WALL AND TANK WALL PENETRATIONS. SEAL SHALL BE OF THE MODULAR SEALING ELEMENT UNIT TYPE, DESIGNED FOR FIELD ASSEMBLY, TO FIT ANNULAR SPACE BETWEEN PIPE AND SLEEVE.
- SEALING ELEMENTS: EPDM INTERLOCKING LINKS SHAPED TO FIT SURFACE OF PIPE. INCLUDE TYPE AND NUMBER REQUIRED FOR PIPE MATERIAL AND SIZE OF PIPE.
- PRESSURE PLATES: PLASTIC. INCLUDE TWO FOR EACH SEALING ELEMENT.
- CONNECTING BOLTS AND NUTS: CARBON STEEL WITH CORROSION-RESISTANT COATING OF LENGTH REQUIRED TO SECURE PRESSURE PLATES TO SEALING ELEMENTS. INCLUDE ONE FOR EACH SEALING ELEMENT.

C. PENETRATION FIRESTOP:

- FIRE-RATED CONSTRUCTION: MAINTAIN BARRIER AND STRUCTURAL FLOOR FIRE RESISTANCE RATINGS INCLUDING RESISTANCE TO COLD SMOKE AT ALL PENETRATIONS, CONNECTIONS WITH OTHER SURFACES OR TYPES OF CONSTRUCTION, AND SOUND OR VIBRATION ABSORPTION, AND AT OTHER CONSTRUCTION GAPS.
- SMOKE BARRIER CONSTRUCTION: MAINTAIN BARRIER AND STRUCTURAL FLOOR RESISTANCE TO COLD SMOKE AT ALL PENETRATIONS, CONNECTIONS WITH OTHER SURFACES AND TYPES OF CONSTRUCTION AND AT ALL SEPARATIONS REQUIRED TO PERMIT BUILDING MOVEMENT AND SOUND OR VIBRATION ABSORPTION, AND AT OTHER CONSTRUCTION GAPS.
- SYSTEMS OR DEVICES LISTED IN THE UL FIRE RESISTANCE DIRECTORY UNDER CATEGORIES XHCR AND XHEZ MAY BE USED, PROVIDING THAT IT CONFORMS TO THE CONSTRUCTION TYPE, PENETRANT TYPE, ANNULAR SPACE REQUIREMENTS AND FIRE RATING INVOLVED IN EACH SEPARATE INSTANCE, AND THAT THE SYSTEM BE SYMMETRICAL FOR WALL APPLICATIONS. SYSTEMS OR DEVICES MUST BE ASBESTOS-FREE. MORTAR SYSTEMS MUST BE WARNOCK HERSEY APPROVED.
- WITHSTAND THE PASSAGE OF COLD SMOKE EITHER AS AN INHERENT PROPERTY OF THE SYSTEM OR BY THE USE OF A SEPARATE PRODUCT INCLUDED AS A PART OF THE UL SYSTEM OR DEVICE, AND DESIGNED TO PERFORM THIS FUNCTION.
- ALL FIRESTOPPING PRODUCTS MUST BE FROM A SINGLE MANUFACTURER.
- THROUGH-PENETRATION SMOKESTOPPING AT SMOKE PARTITIONS: ANY SYSTEM COMPLYING WITH THE REQUIREMENTS FOR THROUGH-PENETRATION FIRESTOPPING IN FIRE-RATED CONSTRUCTION, AS SPECIFIED, IS ACCEPTABLE, PROVIDED THAT THE SYSTEM INCLUDES THE SPECIFIED SMOKE SEAL OR WILL PROVIDE A SMOKE SEAL. THE LENGTH OF TIME OF THE FIRE RESISTANCE MAY BE DISREGARDED IN A NON-FIRE RATED SMOKE BARRIER.
- SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION WITH FACTORY-BUILT DEVICES OR WITH MANUFACTURED FILL, VOID, OR CAVITY MATERIALS "CLASSIFIED" BY UNDERWRITERS LABORATORIES, INC. FOR USE AS A THROUGH-PENETRATION FIRESTOP. ALL FIRESTOP DEVICES AND SYSTEMS SHALL BE APPROVED FOR SUCH USE BY THE AUTHORITY HAVING JURISDICTION. THE FIRESAFING SYSTEM USED SHALL MAINTAIN THE FIRE-RESISTANCE RATING OF THE BUILDING COMPONENT THAT IS PENETRATED.
- ALL MATERIALS SHALL BE NON-HARDENING AND NON-TOXIC. THE FIRESAFING SYSTEM USED SHALL ACCOMMODATE EXPANSION AND CONTRACTION OF THE FLOATING MECHANICAL PIPING SYSTEMS WITHOUT DAMAGING THE FIRESTOP OR REDUCING ITS EFFECTIVENESS AS A SMOKE BARRIER OR WATER SEAL.

D. HANGERS AND SUPPORTS:

- SUPPORT HORIZONTAL PIPING IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

PIPE SIZE (IN)	MAXIMUM HANGER SPACING (FT)	ROD SIZE (IN)
1 AND SMALLER	6	3/8
1.25 TO 2	9	3/8
2.5 TO 3	10	1/2
4 TO 5	12	5/8
- DO NOT HANG PIPING FROM OTHER PIPING. SUPPORT OF HANGERS BY MEANS OF VERTICAL EXPANSION BOLTS IS NOT PERMITTED.
- HANGERS FOR INSULATED PIPING SHALL SUPPORT THE PIPE WITHOUT PIERCING THE INSULATION.
- USE HANGERS WHICH ARE VERTICALLY ADJUSTABLE 1 1/2 INCH MINIMUM AFTER PIPING IS ERECTED. INSTALL HANGERS SO THAT 1/2 INCH MINIMUM CLEARANCE IS MAINTAINED BETWEEN FINISHED COVERING OF PIPE AND ADJACENT WORK.

23 05 48 - VIBRATION AND SEISMIC CONTROLS

A. ACCEPTABLE MANUFACTURERS:

- VIBRATION ISOLATION: MASON INDUSTRIES (MI), VIBRATION MOUNTINGS & CONTROL (VMC), VIBRATION ELIMINATOR (VEC), VIBREX VIBRATION CONTROL SYSTEMS (VVC)
- ISOLATE MECHANICAL EQUIPMENT FROM THE BUILDING STRUCTURE BY MEANS OF VIBRATION ISOLATORS AS SPECIFIED OR AS RECOMMENDED BY EQUIPMENT MANUFACTURER. ISOLATOR MODEL NUMBERS REFERRED TO IN THE SPECIFICATION ARE BY MASON INDUSTRIES.
- DO NOT MAKE RIGID CONNECTIONS BETWEEN EQUIPMENT AND BUILDING STRUCTURE THAT DEGRADES OR SHORT CIRCUITS THE VIBRATION ISOLATION SYSTEM SPECIFIED HEREIN.
- PROVIDE FLEXIBLE CONNECTORS TO ALL OTHER CONNECTIONS TO VIBRATION ISOLATED EQUIPMENT SUCH AS CONDENSATE DRAINS, AND OTHER PIPING AS ALLOWED BY CODES AND/OR LOCAL AUTHORITIES.



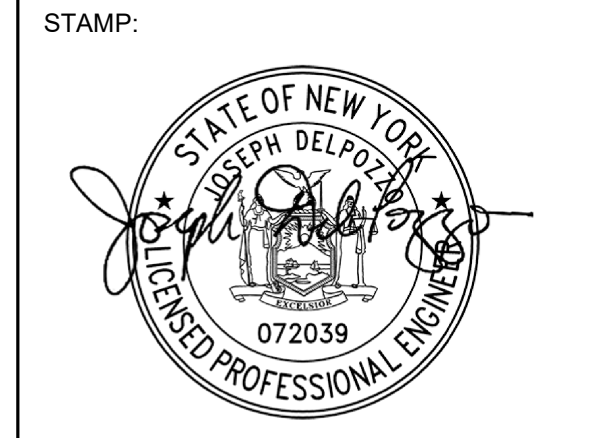
sweetgreen

3102 WEST 36TH STREET
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MECHANICAL SPECIFICATIONS SHEET #1

DOB NOW JOB # M01217029-P1

M-002.00

- E. LOOP ELECTRICAL CIRCUIT CONNECTIONS TO ISOLATED EQUIPMENT TO ALLOW FREE MOTION. INCLUDE AT LEAST ONE SLACK 90° BEND.
- F. INSTALL ISOLATORS WITH THE ISOLATOR HANGER BOX ATTACHED TO, OR HUNG AS CLOSE AS POSSIBLE TO, THE STRUCTURE. PROVIDE OUTRIGGER SUPPORTS WHERE REQUIRED FOR CLEARANCE TO EQUIPMENT AND TO MAINTAIN MINIMUM CLEARANCE OF EQUIPMENT TO STRUCTURE ABOVE.
- G. SUSPEND ISOLATORS FROM SUBSTANTIAL STRUCTURAL MEMBERS, NOT FROM SLAB UNLESS SPECIFICALLY PERMITTED. ATTACHMENTS TO FIREPROOF STRUCTURAL MEMBERS SHALL BE RE-FIREPROOFED AS REQUIRED.
- H. ALIGN HANGER RODS TO CLEAR THE HANGER BOX. REPLACE BENT RODS.
- I. ISOLATOR AND RESTRAINT SPECIFICATION:
 - 1. TYPE "C1" PRE-COMPRESSED SPRING HANGER ROD ISOLATORS SHALL INCORPORATE THE FOLLOWING:

TYPE PC3ON	MI
TYPE PCSR	VEC
TYPE HVA-PC	YVC
TYPE HRSA-PR	VVC

23 05 50 - ACCESS DOORS IN GENERAL CONSTRUCTION

- A. ACCEPTABLE MANUFACTURERS:
 - 1. ACCESS DOORS: MILCOR INC., KARP ASSOCIATES, INC., J.L. INDUSTRIES, ACUDOR, WILLIAMS BROTHERS
 - 2. COLOR-CODED IDENTIFICATION BUTTONS: BRADY/SETON, STRANCO
- B. FURNISH ACCESS DOORS OF PROPER SIZE FOR ACCESS TO CONCEALED EQUIPMENT. UNLESS OTHERWISE INDICATED, MINIMUM SIZE TO BE 12 INCHES X 12 INCHES FOR HAND ACCESS; MINIMUM 18 INCHES X 18 INCHES FOR VALVE AND ACTUATOR ACCESS; AND 24 INCH BY 24 INCH FOR EQUIPMENT ACCESS.
- C. PROVIDE ACCESS DOORS FOR MAINTENANCE OR ADJUSTMENT PURPOSES FOR MECHANICAL SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 1. VALVES
 - 2. DAMPERS
 - 3. CONCEALED EQUIPMENT
 - 4. CONTROLS, SENSORS, AND DEVICES
- D. FURNISH COLOR CODED BUTTONS OR TABS TO INDICATE LOCATION OF VALVES, DAMPERS OR OTHER EQUIPMENT LOCATED ABOVE REMOVABLE TYPE CEILINGS WHERE ACCESS DOORS ARE NOT REQUIRED. PROVIDE COLOR CODED DOTS ON ACCESS DOORS OR CEILING TILES TO INDICATE TYPE OF SERVICE AS FOLLOWS:
 - 1. HVAC: BLUE
 - 2. FIRE PROTECTION: RED
 - 3. PLUMBING: SILVER

23 05 50 - ACCESS DOORS IN GENERAL CONSTRUCTION

- A. ACCEPTABLE MANUFACTURERS:
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 - 1. VALVES
 - 2. DAMPERS
 - 3. CONCEALED EQUIPMENT
 - 4. CONTROLS, SENSORS, AND DEVICES
- D. FURNISH COLOR CODED BUTTONS OR TABS TO INDICATE LOCATION OF VALVES, DAMPERS OR OTHER EQUIPMENT LOCATED ABOVE REMOVABLE TYPE CEILINGS WHERE ACCESS DOORS ARE NOT REQUIRED. PROVIDE COLOR CODED DOTS ON ACCESS DOORS OR CEILING TILES TO INDICATE TYPE OF SERVICE AS FOLLOWS:
 - 1. HVAC: BLUE
 - 2. FIRE PROTECTION: RED
 - 3. PLUMBING: SILVER

23 05 53 - SYSTEMS IDENTIFICATION FOR HVAC

- A. IDENTIFY ALL EQUIPMENT WITH IDENTICAL LETTERS AND/OR NUMBERS AS USED ON DRAWINGS. WHERE SPACE IS AVAILABLE USE FULL NAME OF EQUIPMENT. ATTACH NAMEPLATES IN A PERMANENT MANNER IN A LOCATION THAT WILL BE CLEARLY VISIBLE AFTER INSTALLATION IS COMPLETE.
- B. IDENTIFY PIPING SYSTEMS WITH COLOR CODED BANDS, SHARPLY CONTRASTING WITH BACKGROUND. LOCATE BANDS NEAR STRATEGIC POINTS, SUCH AS VALVES, ITEMS OF EQUIPMENT, CHANGES IN DIRECTION, WALL PENETRATIONS, CAPPED STUB OUT FOR FUTURE CONNECTION AND EVERY 40 FEET OF STRAIGHT RUNS. IF NECESSARY, PAINT A STRIP BACKGROUND OF BLACK OR WHITE TO OBTAIN CONTRAST.
- C. MECHANICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF NAMEPLATES PERMANENTLY SCREW FASTENED TO THE EQUIPMENT. NAMEPLATES SHALL BE BLACK SURFACE, WHITE CORE LAMINATED BAKELITE WITH ENGRAVED LETTERS. PLATES SHALL BE A MINIMUM OF 3 INCH LONG BY 1 INCH WIDE WITH WHITE LETTERS 3/8 INCH HIGH.
- D. TERMINAL EQUIPMENT INSTALLED IN CEILING SPACES SUCH AS VARIABLE VOLUME TERMINALS, FAN COIL UNITS, HEAT PUMPS, ETC., SHALL HAVE IDENTIFYING NUMBER STENCILED ON BOTTOM OF UNIT SO THAT IT IS VISIBLE FROM BELOW.
- E. FOR VALVES, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS AND AUTOMATIC CONTROL DAMPERS, USE METAL TAGS 2 INCH MINIMUM DIAMETER, FABRICATED OF 19 GAUGE POLISHED BRASS, STAINLESS STEEL OR ALUMINUM.
 - 1. ATTACH TAGS WITH JACK CHAIN "S"-HOOK OR SPLIT RING OF SAME MATERIALS.
 - 2. PROVIDE ENGRAVED/STAMPED TAGS WITH BLACK INK-FILLED 1/4 INCH HIGH LETTERS AND 1/4 INCH HIGH NUMBERS.
 - 3. PROVIDE MINIMUM 5/32 INCH HOLE FOR FASTENER.

23 05 93 - TESTING, ADJUSTING, AND BALANCING

- A. GENERAL PROCEDURE:
 - 1. BALANCE TO MAXIMUM MEASURED FLOW DEVIATION FROM SPECIFIED VALUES OF 10% AT TERMINAL DEVICE AND 5% AT EQUIPMENT OR MEAN SOUND LEVEL DEVIATION OF 15 DECIBELS.
 - 2. PERMANENTLY MARK SETTINGS ON VALVES, SPLITTERS, DAMPERS AND OTHER ADJUSTMENT DEVICES.
 - 3. TEST AND BALANCING CONTRACTOR SHALL BE AABC CERTIFIED.
 - 4. TEST AND BALANCE AGENCY SHALL INCLUDE AN EXTENDED WARRANTY OF 90 DAYS, AFTER COMPLETION EACH PHASE OF THE TEST AND BALANCE WORK, DURING WHICH TIME THE ENGINEER MAY REQUEST READJUSTMENT OF THE SYSTEM TO COMPLY WITH COMFORT, SOUND CONDITIONS OR RELATIVE SPACE PRESSURE REQUIREMENTS
- 1. TESTING AND BALANCING AGENCY, AS PART OF ITS CONTRACT, SHALL ACT AS AUTHORIZED INSPECTION AGENCY RESPONSIBLE TO CONSULTING ENGINEER AND OWNER, AND SHALL DURING THE TEST AND BALANCE LIST ALL ITEMS THAT ARE INSTALLED INCORRECTLY, REQUIRE CORRECTION, OR HAVE NOT BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND/OR SPECIFICATIONS, PERTAINING TO THE AIR DISTRIBUTION, COOLING AND HEATING SYSTEMS.

- 2. TEST AND BALANCING CONTRACTOR SHALL WORK WITH BUILDING CONTROLS CONTRACTOR AS NEEDED TO OBTAIN TEST DATA AND BALANCE THE SYSTEM.
- 3. ACCEPTANCE:
 - a. MECHANICAL SYSTEMS SHALL NOT BE CONSIDERED READY FOR FINAL INSPECTION UNTIL BALANCING RESULTS ACCEPTABLE TO THE ARCHITECT ARE OBTAINED.
 - b. IF IT IS FOUND THAT THE SPECIFIED AIRFLOWS CANNOT BE ACHIEVED ON PORTIONS OF THE SYSTEM, THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT FOR CONSIDERATION OF CORRECTIVE ACTION BEFORE CONTINUING THE BALANCE PROCEDURE.
 - c. IF MEASURED FLOW AT FINAL INSPECTION SHOWS DEVIATION OF 10 PERCENT OR MORE OR MEAN SOUND-LEVEL DEVIATION OF 10 DECIBELS OR MORE FROM THE CERTIFIED REPORT LISTINGS FOR MORE THAN 10 PERCENT OF SELECTED AREAS, THE REPORT SHALL BE REJECTED.
 - d. IF REPORT IS REJECTED, SYSTEMS SHALL BE REBALANCED AND A NEW CERTIFIED REPORT SUBMITTED.

B. BALANCING REPORT AND DRAWINGS:

- 1. SUBMIT A DRAFT COPY OF REPORTS PRIOR TO FINAL ACCEPTANCE OF PROJECT. PROVIDE 4 COPIES OF FINAL REPORT FOR INCLUSION IN OPERATING AND MAINTENANCE MANUALS.
- 2. SUBMIT WITH REPORT, FAN AND PUMP CURVES WITH OPERATING CONDITIONS PLOTTED. SUBMIT GRILLE AND DIFFUSER SHOP DRAWINGS AND DIFFUSION FACTORS.

C. AIR SYSTEM PROCEDURE:

- 1. EXECUTE AIR SYSTEMS BALANCING FOR EACH AIR SYSTEM IN ACCORDANCE WITH AABC SPECIFICATIONS AND AS DESCRIBED HEREIN.
- 2. MAKE TESTS WITH SUPPLY, RETURN AND EXHAUST SYSTEMS OPERATING AND DOORS, WINDOWS, CLOSED, OR IN THEIR NORMAL OPERATION CONDITION.
- 3. TEST AND ADJUST FAN SPEED TO DESIGN REQUIREMENTS.
- 4. TEST AND RECORD MOTOR FULL LOAD AMPS. RECORD EACH INSTALLED MOTOR MANUFACTURER.
- 5. TRANSVERSE MAIN SUPPLY AIR DUCTS, USING A PITOT TUBE AND MANOMETER. CALIBRATE THE MANOMETER TO READ TWO SIGNIFICANT FIGURES IN VELOCITY PRESSURE RANGES. TAKE A MINIMUM 16 READINGS PER TRAVERSE. THE INTENT OF THIS OPERATION IS TO MEASURE BY TRAVERSE THE TOTAL AIR QUALITY SUPPLIED BY THE FAN AND TO VERIFY THE DISTRIBUTION OF AIR TO THE FLOOR AND/OR ZONES. A MAIN DUCT IS DEFINED AS ANY OF THE FOLLOWING:
 - a. TYPICAL FLOOR DUCT LOOP.
 - b. A DUCT SERVING FOUR (4) OR MORE OUTLETS.
 - c. A DUCT SERVING A HYDRONIC OR ELECTRIC COIL
 - d. A DUCT EMANATING FROM A FAN DISCHARGE OR PLENUM AND TERMINATING AT ONE OR MORE OUTLETS.
 - e. MEASURE AND RECORD RA OPENING SIZE AT THE MAIN RA PLENUMS. USING TRAPEZE MEASURE THE TOTAL VOLUME OF RA FROM THAT FLOOR. INSPECT OPERATION OF RETURN AIR DAMPER (RAD) AND ACTUATOR.
- 6. SUBMIT DATA IN SUPPORT OF FAN CAPACITY DELIVERIES BY THE FOLLOWING FOUR METHODS. FOR RETURN, RELIEF AND EXHAUST FANS, METHODS 1 AND 4 ARE SUFFICIENT:
 - a. BY SUMMATION OF THE AIR QUANTITY READINGS AT INLETS OR OUTLETS.
 - b. BY DUCT TRAVERSES OF MAIN SUPPLY DUCTS.
 - c. BY ROTATING VANE TRAVERSE ACROSS THE FILTER OR COIL BANK.
 - d. BY PLOTTING REVOLUTIONS PER MINUTE AND STATIC PRESSURE READINGS ON THE FAN CURVE. AIR DENSITY CORRECTIONS MUST BE INDICATED.
- 7. TEST AND RECORD REQUIRED AND MEASURED SYSTEM STATIC PRESSURES; FILTER DIFFERENTIAL, COIL DIFFERENTIAL AND FAN TOTAL STATIC PRESSURE.
- 8. ADJUST MAIN SUPPLY AND RETURN DUCTS TO PROPER DESIGN FLOW RATES.
- 9. INSPECT AND CONFIRM ALL FIRE DAMPERS ARE OPEN, ALL SMOKE DAMPERS AND FIRE/SMOKE DAMPERS ARE IN THEIR CORRECT POSITION, ALL DUCT ACCESS DOORS ARE CLOSED AND FIRE DAMPER FUSIBLE LINKS ARE ACCESSIBLE.
- 10. ADJUST ZONES TO PROPER DESIGN, SUPPLY AND RETURN FLOW RATES.
- 11. TEST AND ADJUST EACH AIR INLET AND AIR OUTLET AND TRANSFER DUCT TO WITHIN 10% OF DESIGN REQUIREMENTS.
- 12. IDENTIFY EACH AIR INLET, AIR OUTLET, TRANSFER DUCT AND TRANSFER WALL OPENING AS TO LOCATION AND AREA ON AS-BUILT DRAWING.
- 13. IDENTIFY AND LIST SIZE, TYPE AND MANUFACTURER OF DIFFUSERS, GRILLES, REGISTERS AND TESTING EQUIPMENT. USE MANUFACTURER'S RATING ON EQUIPMENT TO MAKE REQUIRED CALCULATIONS.
- 14. IN READINGS AND TESTS OF DIFFUSERS, GRILLES AND REGISTERS, REPORT THE REQUIRED FACE AND NECK VELOCITY, TEST FACE AND NECK VELOCITY, AND REQUIRED AIR PRESSURE DROP AND FLOW RATE. TEST AFTER ADJUSTMENTS.
- 15. ADJUST DIFFUSERS, GRILLES, AND REGISTERS TO MINIMIZE DRAFTS, DUMPING, AND TO PREVENT "SHORT CIRCUITING" BETWEEN SUPPLY AND RETURN OUTLETS.
- 16. USE VOLUME CONTROL DEVICES TO REGULATE AIR QUANTITIES ONLY TO EXTENT THAT ADJUSTMENTS DO NOT CREATE OBJECTIONABLE AIR MOTION OR SOUND LEVELS. EFFECT VOLUME CONTROL BY DUCT INTERNAL DEVICES SUCH AS DAMPERS AND SPLITTERS.
- 17. RECORD INSTALLED FAN DRIVE ASSEMBLIES; FAN SHEAVES, MOTOR SHEAVES, BELTS, AND MOTORS.
- 18. CHECK ZONE TEMPERATURE SET POINTS. ENSURE ZONE SENSOR IS OPERATING PROPERLY AND RESPONDS TO CHANGING ROOM TEMPERATURES.

23 07 00 - THERMAL INSULATION FOR HVAC

- A. ACCEPTABLE MANUFACTURERS:
 - 1. FIBERGLASS: JOHNS MANVILLE; KNAUF; OWENS CORNING
 - 2. ELASTOMERIC: ARMACELL; AEROFLEX
 - 3. MASTICS, ADHESIVES AND SEALERS: DUCTMATE; FOSTER; IC; CHILDERS
- 4. JACKETS:
 - a. METAL: CHILDERS; RPR PRODUCTS
 - b. PVC: CEEL-CO, PIC PLASTICS
 - c. OTHER: VENTURE TAPE; POLYGUARD, FOSTER VAPOR FAS 62-05
- 5. PRE-MOLDED FITTINGS, VALVES, STRAINERS AND EQUIPMENT INSULATION: INSUL-THERM INTERNATIONAL; EXTOL OF OHIO, INC.; OR APPROVED EQUAL
- 6. FIRE BARRIER DUCT WRAP: 3M DUCT WRAP 615+, UNIFRAX FRYEWRAP®; OR APPROVED EQUAL
- B. PIPE INSULATION:
 - 1. MATERIALS:
 - a. GLASS FIBER: ASTM C547; RIGID-MOLDED, NONCOMBUSTIBLE.
 - (1) "K" VALUE: 0.23 AT 75°F.
 - (2) MAXIMUM SERVICE TEMPERATURE: 850°F.
 - (3) VAPOR RETARDER JACKET: WHITE KRAFT PAPER, VINYL COATED, EMBOSSED AND REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINUM FOIL, SECURE WITH SELF-SEALING LONGITUDINAL LAPS AND BUTT STRIPS.

- b. ELASTOMERIC FOAM: ASTM C634; FLEXIBLE, CELLULAR ELASTOMERIC, MOLDED OR SHEET.
 - (1) "K" VALUE: 0.27 AT 75°F.
 - (2) MAXIMUM SERVICE TEMPERATURE OF 220°F.
- c. FIELD-APPLIED JACKETS:
 - (1) ALUMINUM JACKET (AL): 0.016 INCH THICK SHEET, STIPPLED FINISH, WITH LONGITUDINAL SLIP JOINTS AND 2 INCH LAPS, DIE-SHAPED FITTING COVERS WITH FACTORY-ATTACHED PROTECTIVE LINER.
 - (2) VAPOR BARRIER JACKET (VBJ): FIVE PLY, NON-BITUMINOUS, EMBOSSED, ALUMINUM FOIL/POLYMER LAMINATED FILM WITH PERMEANCE RATING OF 0.0 AS TESTED IN ACCORDANCE WITH ASTM F1249. VENTURE CLAD PLUS (1579CW) BY VENTURE TAPE, POLYGUARD ZERO-PERM (INDOORS ONLY), FOSTER VAPOR FAS 62-05 OR APPROVED EQUAL.
 - (3) ALL SERVICE JACKET (ASJ): DOUBLE ADHESIVE CLOSURE WITH LONGITUDINAL SEAM, OWENS-CORNING SSL II-ASJ OR APPROVED EQUAL.

C. PIPE INSULATION SCHEDULE:

- 1. CONDENSATE DRAIN PIPING:
 - (1) MATERIAL: GLASS FIBER
 - (2) THICKNESS: 1" INSULATION

D. FITTINGS, VALVES AND FLANGES:

- 1. USE FACTORY PRE-MOLDED FITTINGS OF THE SAME MATERIALS AND THICKNESS AS THE ADJACENT PIPE INSULATION. SUCH FITTINGS SHALL BE APPLIED TO ALL 90°S, 45°S, TEES, FLANGES, AND VALVES.
- 2. WHERE PRE-MOLDED INSULATION FITTINGS ARE NOT MANUFACTURED, INSULATE FITTINGS, FLANGES, STRAINERS AND VALVES WITH MITERED SEGMENTS OF THE SAME DENSITY AS THE ADJOINING PIPE COVERING. VAPORSEAL FOR COLD (BELOW DEW POINT) APPLICATIONS USING VAPOR BARRIER MASTIC WITH OPEN WEAVE GLASS OR POLYESTER MESH LAY IN WHILE WET. PROVIDE A FINAL COAT OF VAPOR BARRIER MASTIC. OVERLAP GLASS MESH AND OUTER COAT ADJACENT COVERING BY A MINIMUM OF 2 INCHES. VAPOR BARRIER MASTIC SHALL BE IC 501 CHILDERS OR 34 OR FOSTER 30-45. PERMEANCE OF MASTIC SHALL BE 0.03 PERMS OR LESS AT 45 MILS AS TESTED BY ASTM E96. REINFORCING MESH SHALL BE FOSTER MAST A FAB, CHILDERS CHIL GLAS #10 OR APPROVED EQUAL.
- 3. PROVIDE INSULATION FOR THE REMOVABLE COVERS AND FLANGES OF PIPE STRAINERS ON COLD SERVICES WITH BUILT UP SECTIONS OF GLASS FIBER PIPE COVERING, ARRANGED TO FACILITATE SERVICING OF THE STRAINER. COMPLETE APPLICATIONS WITH VAPORSEALS AS SPECIFIED ABOVE. VAPOR BARRIERS SHALL BE SEALED AND CONTINUOUS THROUGH GUIDES, HANGERS, WALLS, SLEEVES, ETC. ADHESIVES AND COATINGS SHALL BE AS NOTED HEREIN.

I. JACKETING SCHEDULE:

- SERVICE LOCATION JACKET TYPE
- CONDENSER WATER PIPING: ASJ OR PAINTED FINISH
- CONDENSATE: ASJ OR PAINTED FINISH

J. DUCTWORK INSULATION:

- 1. MATERIALS:
 - d. FLEXIBLE GLASS FIBER: ASTM C553, FLEXIBLE BLANKET.
 - (1) "K" VALUE: 0.27 AT 75°F INSTALLED.
 - (2) DENSITY: 0.75 POUNDS PER CUBIC FOOT.
 - (3) VAPOR BARRIER JACKET: ALUMINUM FOIL REINFORCED WITH FIBER GLASS YARN AND LAMINATED TO FIRE-RESISTANT KRAFT, SECURED WITH UL LISTED PRESSURE SENSITIVE TAPE AND OUTWARD CLINCHED EXPANDED STAPLES AND VAPOR BARRIER MASTIC AS NEEDED. MAXIMUM VAPOR BARRIER PERM RATING SHALL NOT EXCEED 0.02 PERM.
 - e. RIGID GLASS FIBER: ASTM C612, RIGID BOARD.
 - (1) "K" VALUE: 0.23 AT 75°F.
 - (2) DENSITY: 6.0 POUNDS PER CUBIC FOOT.
 - (3) VAPOR BARRIER JACKET: ALUMINUM FOIL REINFORCED WITH FIBER GLASS YARN AND LAMINATED TO FIRE-RESISTANT KRAFT, SECURED WITH UL LISTED PRESSURE SENSITIVE TAPE AND OUTWARD CLINCHED STAPLES AND VAPOR BARRIER MASTIC AS NEEDED.

K. DUCTWORK INSULATION SCHEDULE:

- (1) EXHAUST DUCTS WITHIN 10 FEET OF EXTERIOR OPENINGS: FLEXIBLE GLASS FIBER, 1.5" INSULATION
- (2) SUPPLY DUCTS IN CONDITIONED SPACES (COOLING AND HEATING SYSTEMS): FLEXIBLE GLASS FIBER, 1 1/2" INSULATION (MINIMUM R VALUE OF 4.2)
- (3) SUPPLY AND RETURN DUCTS IN UNCONDITIONED SPACES: RIGID GLASS FIBER, 2" INSULATION (MINIMUM R VALUE OF 8.0)
- (4) OUTSIDE AIR INTAKE AND EXHAUST AIR PLENUMS: RIGID GLASS FIBER, 2" INSULATION (MINIMUM R VALUE OF 8.0)
- L. WHEREVER EXTERNAL DUCT INSULATION IS SPECIFIED AND INTERNAL ACOUSTIC TREATMENT OF EQUIVALENT INSULATING EFFECT IS ALSO REQUIRED (BY DRAWINGS OR SPECIFICATIONS) FOR THE SAME LOCATION, THE EXTERNAL INSULATION MAY BE OMITTED.

23 09 93 - TEMPERATURE CONTROLS

- A. SUPPLY AND INSTALL NECESSARY SOFTWARE, PROGRAMMING, SENSING, CONTROLLING AND CONTROLLED DEVICES, PIPING, WIRING AND COMMISSIONING OF AUTOMATIC CONTROL SYSTEMS, SO AS TO PROVIDE A COMPLETE CONTROL SYSTEM, MEET REQUIREMENTS OF CONTROL SEQUENCES SPECIFIED.
- B. GENERAL:
 - 1. ALL HVAC SYSTEM CONTROLS SHALL BE DDC CONTROLS AND PROVIDED FROM THE BUILDING'S BMS CONTROL CONTRACTOR AS APPLICABLE.
 - 2. SAFETY DEVICES SHALL BE HARDWARE INTERLOCKED WITH "HAND" AND "AUTOMATIC" POSITIONS IN SERIES WITH MOTOR CONTROLLER HOLDING CIRCUIT.
 - 3. SMOKE CONTROL, FIRE AND LIFE SAFETY SEQUENCES SHALL OVERRIDE OTHER AUTOMATIC CONTROL SEQUENCES INCLUDING HARDWIRED SAFETY DEVICES.
 - 4. RESET SCHEDULES AND SETPOINTS SHOWN IN SEQUENCES ARE FOR INITIAL PROGRAMMING AND START UP, DURING SYSTEM COMMISSIONING THE RESET SCHEDULES AND SETPOINTS SHALL BE FINE-TUNED TO OBTAIN DESIRED COMFORT, ENERGY AND LIFE SAFETY SYSTEM RESULTS.
 - 5. THE OUTPUT OF THE RESET SCHEDULES SHOULD BE LIMITED BETWEEN MAXIMUM AND MINIMUM VALUES. THE INTENT OF THE RESET SCHEDULES INDICATED IS THAT THE RANGE OF THE OUTPUT BE LIMITED BETWEEN THE MINIMUM AND MAXIMUM VALUES INDICATED IN THE RESET SCHEDULES.
 - 6. ALL FUNCTIONS WHICH USE ANALOG POINTS TO SWITCH EQUIPMENT ON AND OFF (E.G., FANS, PUMPS) MUST BE PROGRAMMED WITH DEAD BANDS, AND IF NECESSARY, TIME DELAYS TO PREVENT SHORT CYCLING OF EQUIPMENT.
 - 7. THERMOSTATS SHALL BE PROVIDED WITH REMOTE MONITORING CAPABILITIES, AS APPLICABLE.
 - 8. SPACE TEMPERATURE SENSORS SHALL BE PROVIDED FOR REMOTE THERMOSTAT MOUNTING.
 - 9. ALL THERMOSTATS ARE TO BE PERMANENTLY LABELED WITH THE NAMEPLATE INFORMATION OF THE ASSOCIATED MECHANICAL EQUIPMENT AND IN A LOCATION THAT WILL BE CLEARLY VISIBLE AFTER INSTALLATION IS COMPLETE.

C. FAN COIL UNITS:

- 1. THE OUTSIDE AIR DAMPER SHALL BE INTERLOCKED TO THE UNIT OPERATION AND OPEN DURING OCCUPIED OPERATION.
- 2. THE FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
- 3. THE MANUFACTURER PROVIDED HEATING CYCLE OR THE COOLING CYCLE SHALL OPERATE TO MAINTAIN SETPOINT OF THE SPACE THERMOSTAT.
- 4. UPON THE ACTIVATION OF THE ASSOCIATED DUCT MOUNTED SMOKE DETECTOR, THE UNIT SHALL IMMEDIATELY SHUT DOWN AND THE FIRE ALARM SYSTEM SHALL BE NOTIFIED.

D. GENERAL AND TOILET EXHAUST FANS:

- 1. START STOP CONTROL:
 - c. FANS SHALL BE INTERLOCKED TO THE AC UNIT THERMOSTAT PROGRAMMABLE SCHEDULE.
- 2. OCCUPIED OPERATION:
 - a. THE FAN SHALL BE ON AND THE EXHAUST AIR DAMPER SHALL BE OPEN.
- 3. UNOCCUPIED:
 - a. THE FAN SHALL BE OFF, THE EXHAUST AIR DAMPER SHALL BE CLOSED.
- 4. WARM UP/COOL DOWN:
 - a. DURING THE WARM UP PERIOD, THE FAN SHALL BE OFF AND THE EXHAUST AIR DAMPER SHALL BE CLOSED. DURING COOL DOWN PERIOD, THE FAN SHALL BE ON AND THE EXHAUST DAMPER AIR SHALL BE OPEN.
- E. IT ROOM EXHAUST FANS:
 - 1. START STOP CONTROL:
 - a. FANS SHALL BE INTERLOCKED TO A WALL MOUNTED THERMOSTAT.
 - b. UPON A RISE ABOVE THE SPACE TEMPERATURE SETPOINT (80F ADJ.) THE FAN SHALL RUN AT A PREDETERMINED SPEED.

23 23 00 - REFRIGERANT PIPING

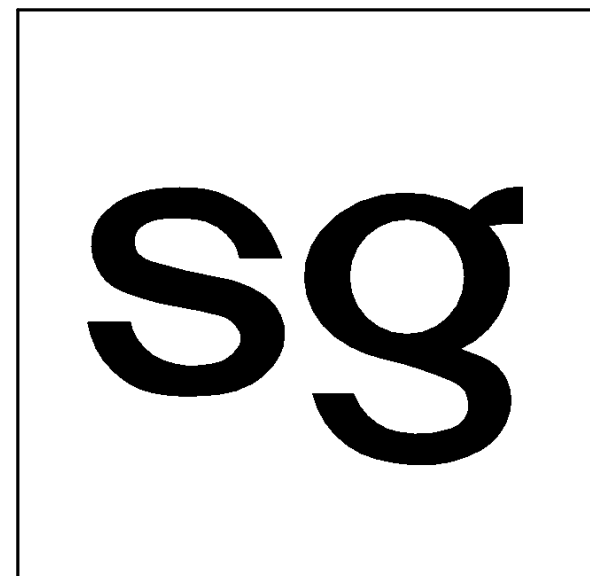
- A. REFRIGERANT PIPING AND FITTINGS SHALL BE AS FOLLOWS:
 - 1. COPPER TUBE: ASTM B88 AND ANSI BP-1 ARC WITH SEALED ENDS.
 - 2. FITTINGS: ASME B16.22 WROUGHT COPPER PRESSURE TYPE WITH LONG RADIUS ELBOWS.
 - 3. JOINTS: BRAZED WITH AWS A5.8 BCUP SILVERPHOSPHORUS/COPPER ALLOY.
 - 4. FILTER/DRIER: FLEATED MEDIA CARTRIDGE TYPE WITH SOLID CORE SIEVE AND ACTIVATED ALUMINA.
 - 5. STRAINER: STRAIGHT LINE OR ANGLE TYPE WITH BRASS OR STEEL SHELL WITH REPLACEABLE CARTRIDGE. SCREEN OF STAINLESS STEEL WIRE OR MONEL REINFORCED WITH BRASS.
 - 6. VALVES: SHUTOFF, CHECK, SOLENOID AND RELIEF VALVES SHALL BE SELECTED FOR THE PRESSURE AND FLOW REQUIRED. HENRY TECHNOLOGIES, HANSEN TECHNOLOGIES, FLOMATIC VALVES.
- B. INSTALLATION:
 - 1. ALL PIPING SHALL BE SIZED AND SPECIALTIES SELECTED BY THE EQUIPMENT MANUFACTURER OR HIS REPRESENTATIVE INCLUDING ANY REQUIRED DOUBLE RISERS, TRAPS, FLEXIBLE CONNECTIONS, ETC.
 - 2. INSTALL PIPE AND SPECIALTIES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
 - 3. CONNECT PIPING TO EQUIPMENT USING UNIONS OR FLANGES.
 - 4. PROVIDE ISOLATION VALVES AND VALVED BYPASSES AROUND REPLACEABLE CARTRIDGE FILTER/DRIERS AND OTHER REPLACEABLE SPECIALTIES.
 - 5. ROUTE PIPE IN AN ORDERLY MANNER, PARALLEL TO BUILDING STRUCTURE, MAINTAINING GRADIENT.
- C. TESTING:
 - 1. PRESSURE TEST TO ASME B31.5.

23 21 23 - PUMPS

- A. ACCEPTABLE MANUFACTURERS:
 - 1. COOLING COIL CONDENSATE PUMPS: LITTLE GIANT VCMA-20 SERIES, MARCH, BECKETT CB, HARTELL KTP20
- B. COOLING COIL CONDENSATE PUMPS:
 - 1. PROVIDE A FULLY AUTOMATIC CONDENSATE REMOVAL PUMP WITH 1/2 GALLON CAPACITY INTEGRAL LEAKPROOF TANK. PUMP CAPACITY SHALL BE 20 GALLONS PER HOUR WITH A 15 FOOT LIFT.
 - 2. THE PUMP SHALL BE A VERTICAL-TYPE WITH STAINLESS STEEL MOTOR SHAFT, RUST PROOF, HIGH-IMPACT ABS TANK AND MOTOR COVER, 3 DRAIN INLET CONNECTIONS.
 - 3. PROVIDE A REMOVABLE 1/2 INCH BARBED CHECK VALVE.
 - 4. PROVIDE A SAFETY SWITCH AND RELAY RATED AT 5 AMPERES/48 VOLTS TO SHUT DOWN THE ASSOCIATED HVAC UNIT.
 - 5. THE 120 VOLT SINGLE PHASE MOTOR SHALL BE THERMALLY PROTECTED MOTOR AND UL LISTED FOR HARDWIRE CONNECTION.

23 31 00 - HVAC DUCTS AND CASINGS

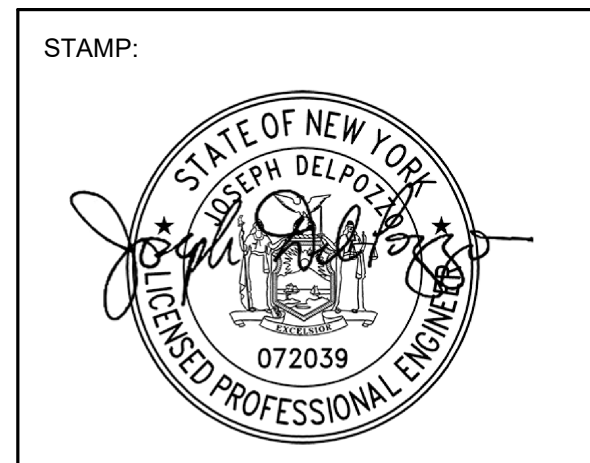
- A. ACCEPTABLE MANUFACTURERS:
 - 1. SPIRAL OVAL AND ROUND DUCTS: UNITED MCGILL "UNI-FORM", SEMCO, METCO, DUCTMATE INDUSTRIES "SPIRALMATE" AND "OVALMATE"
 - 2. DUCT CONNECTION SYSTEMS: DUCTMATE INDUSTRIES "DUCTMATE 35" AND "DUCTMATE 45", NEXUS, WARD
 - 3. FLEXIBLE CONNECTIONS: VENTFABRICS "VENTGLAS" AND "VENTLON", DURO DYNE "INSULFAB", ADVANCE ELASTOMERIC SYSTEMS, DUCTMATE INDUSTRIES "PROFLEX"
 - 4. FLEXIBLE DUCTS: AUTOMATIC INDUSTRIES "THERMIFLEX M-KE", UNITED MCGILL, GENFLEX "IL"
 - 5. SPRING FASTENERS: DZUS, SIMMONS "QUICK-LOCK"
 - 6. DUCT SEALANTS: MINNESOTA MINING AND MANUFACTURING, BENJAMIN FOSTER, CHILDERS, MIRACLE ADHESIVE, UNITED MCGILL, HARDCAST, DUCTMATE INDUSTRIES "PROSEAL"
 - 7. SPIN-IN FITTINGS: YOUNG REGULATOR, MODULAR METALS



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REV.	DATE	DESCRIPTION
1	04/21/2025	80% SUBMISSION
2	05/02/2025	ISSUE FOR PERMIT
2	08/01/2025	PERMIT AMENDMENT

MECHANICAL SPECIFICATIONS SHEET #2

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M-003.00

8. FLEXIBLE DUCT CLAMPS: AEROQUIP IDEAL, TRIDON, YOUNG REGULATOR
 9. ACOUSTICAL PANEL PLENUMS: IAC, RINK, VIBRO-ACOUSTICS, UNITED MCGILL
 10. ACCESS DOORS, DUCTS: VENTFABRICS, DURO DYNE, RUSKIN. USE "VENTLOK" NO. 140 LATCHES, DUCTMATE INDUSTRIES, HINGED TYPE ONLY
 11. ACCESS DOORS, PLENUMS: VENTFABRICS, DURO DYNE, ELGEN
 12. DUCT JOINT TAPE: HARDCAST
- B. PUBLISHED SPECIFICATIONS STANDARDS, TESTS OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENTAL ORGANIZATIONS APPLY TO WORK IN THIS SECTION WHERE CITED BELOW:
1. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS HANDBOOKS (LATEST EDITIONS).
 2. SMACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC.
 - a. HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, SECOND EDITION, 2005.
 - b. FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS, FOURTH EDITION, 2002.
 - c. HVAC SYSTEMS TESTING ADJUSTING AND BALANCING, 3RD EDITION, 2002
 - d. SEISMIC RESTRAINT MANUAL, GUIDELINES FOR MECHANICAL SYSTEMS, 1998
 - e. HVAC AIR DUCT LEAKAGE TEST MANUAL 1ST EDITION, 1985
- C. SUBMITTALS
1. SUBMIT DUCTWORK SHOP FABRICATION AND SHOP CONSTRUCTION STANDARDS PRIOR TO SUBMITTAL OF DUCTWORK SHOP DRAWINGS.
 2. DUCTWORK SHOP FABRICATION AND SHOP CONSTRUCTION STANDARDS SHALL INCLUDE ALL APPLICABLE SHOP DETAILS AND PRODUCT DATA. INCLUDE THE FOLLOWING:
 - a. DUCT REINFORCEMENT TABLES FOR ALL PRESSURE CLASSES, DUCT MATERIALS (GALVANIZED STEEL, ALUMINUM, STAINLESS STEEL, BLACK IRON) AND DUCTWORK SHAPES (RECTANGULAR, ROUND, SPIRAL, FLAT OVAL) TO BE USED ON THIS PROJECT
 - b. DUCT REINFORCEMENT TABLES SHALL INCLUDE MATERIAL GAUGES, TRANSVERSE JOINT REINFORCEMENT TYPE AND STANDARD SHOP JOINT SPACING
 - c. TRANSFER DUCT CONSTRUCTION DETAIL
 - d. ACOUSTICAL LINING, PERFORATED METAL LINER, ADHESIVE, NOSING AND FASTENING CUTS AND DETAILS
 - e. INSTALLATION DETAILS FOR VOLUME DAMPERS, REMOTE- AND CORD-OPERATED REMOTE VOLUME DAMPERS, CONTROL DAMPERS, FIRE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS
 - f. DUCT ACCESS DOORS
 - g. DUCT FITTING CONSTRUCTION DETAILS SUCH AS RECTANGULAR AND RADIUS ELBOWS, TURNING VANES, OFFSETS, BRANCH CONNECTIONS, ETC.
 - h. DUCT SUPPORT AND ATTACHMENT DETAILS
 - i. FLANGED DUCT CONNECTION DETAILS FOR ALL SYSTEMS AND EACH MANUFACTURER USED ON PROJECT. MINIMUM DUCT CONSTRUCTION GAUGES SHALL BE AS PER SMACNA DUCT REINFORCEMENT TABLES. DUCT GAUGES MAY NOT BE REDUCED BASED ON ALTERNATIVE JOINTING MANUFACTURER'S RECOMMENDATIONS
 - j. DUCTWORK SEALANT
 - k. DIFFUSER DUCTWORK CONNECTION DETAILS
 - l. DUCT PENETRATING FULL HEIGHT PARTITION DETAILS
 - m. FLEXIBLE CONNECTION DETAILS
 - n. DUCT AND PLENUM CONSTRUCTION DETAILS
 - o. VOC CONTENT OF ANY ADHESIVES OR SEALANTS MUST BE LESS THAN THE CURRENT VOC CONTENT LIMITS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE #118, AND ALL SEALANTS USED AS FILLERS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) REGULATION 8, RULE 51.
 3. PRODUCT DATA INCLUDING MANUFACTURER'S INSTALLATION INSTRUCTIONS, APPLICATION MATERIALS OF CONSTRUCTION, GAUGES, DESCRIPTIVE LITERATURE, AND MAINTENANCE DATA FOR:
 - a. DUCTWORK AND FITTINGS
 - b. PLENUMS
 - c. FASTENERS AND SEALANTS
 - d. ACCESS DOORS
 4. SHOP DRAWINGS:
 - a. 1/4 INCH SCALE DIMENSIONED DUCT LAYOUT DRAWINGS OF ALL MECHANICAL ROOMS, RISER ELEVATIONS, AND FLOOR PLANS, GIVING COMPLETE DIMENSIONS FOR LOCATION, ELEVATION, AND CLEARANCE, SHOWING WORK OF OTHER SECTIONS AND DIVISIONS WHEREVER NECESSARY TO SHOW COORDINATION
 - b. ACCESS DOOR DETAILS
 - c. FLEXIBLE CONNECTION DETAILS
 - d. DUCT AND PLENUM CONSTRUCTION DETAILS
 - e. PROVIDE A SEPARATE SET OF DIMENSIONED DRAWINGS OR A PARTIAL SET AT ENLARGED SCALE SHOWING ALL PENETRATIONS REQUIRED FOR DUCTWORK THROUGH STRUCTURAL MEMBERS, FLOOR AND ROOF SLABS, CONCRETE WALLS AND PRECAST WALLS
 - f. DUCT MATERIALS, REINFORCEMENT AND CONSTRUCTION SCHEDULES
 - g. DUCT SUPPORT AND ATTACHMENT DETAILS
 5. ALL SHEET METAL SHOP DRAWINGS SHALL BE DRAWN IN DOUBLE LINE INDICATING ACTUAL DIMENSIONS OF DUCTWORK, FITTINGS AND EQUIPMENT. SHOP DRAWINGS SUBMITTED WITH DUCTWORK DRAWN IN SINGLE LINE SHALL BE RETURNED WITHOUT REVIEW.
 6. SHEET METAL SHOP DRAWING SHALL INDICATE, AS A MINIMUM, THE FOLLOWING DATA:
 - a. DUCTWORK SIZES AND SECTION BREAKS
 - b. LOCATION OF ACOUSTICAL LINING
 - c. BOTTOM OF DUCT ELEVATIONS FOR ALL DUCTS OR OTHER SERVICES IN CONFLICT WITH DUCTWORK
 - d. DIFFUSER FACE SIZE, NECK SIZE AND AIR QUANTITY
 - e. ALL VOLUME DAMPERS
 - f. ALL AIR CONDITIONING UNITS
 - g. ALL TERMINAL UNITS
 - h. DIMENSIONED DRAWINGS SHOWING PENETRATIONS REQUIRED FOR DUCTWORK THROUGH STRUCTURAL MEMBERS, FLOOR AND ROOF SLABS, CONCRETE WALLS AND PRECAST WALLS
 - i. DUCT SUPPORT AND ATTACHMENT DETAILS
 7. HVAC DESIGN DRAWINGS SHALL NOT BE SUBMITTED AS SHEET METAL SHOP DRAWINGS.
 8. PRIOR TO MOUNTING OR HANGING OF MECHANICAL EQUIPMENT OR DUCTWORK, OBTAIN APPROVAL FROM ARCHITECT FOR PROPOSED METHOD OF MOUNTING PARTICULARLY IN EXISTING BUILDINGS. SUBMIT WEIGHTS AND LOCATION OF ALL MECHANICAL EQUIPMENT AND DUCTWORK TO THE ARCHITECT FOR APPROVAL WELL IN ADVANCE OF GENERAL CONSTRUCTION WORK TO ALLOW SUFFICIENT TIME FOR ANY STRUCTURAL EVALUATION, CRITIQUE AND NECESSARY REDESIGN TO ACCOMMODATE THE INSTALLATION

D. DUCT CLASSIFICATION:

1. DUCT CLASSIFICATION IS BASED ON PRESSURE CLASSIFICATION AS SCHEDULED IN TABLE 1-1 AND AS DESCRIBED IN THE 2005 SMACNA HVAC DUCT CONSTRUCTION STANDARDS (METAL AND FLEXIBLE), COMPLY WITH NFPA 90A WHEN DUCTS TRAVERSE THROUGH SMOKE ZONES. COMPLY WITH ULBUCAM WHEN MORE STRINGENT THAN NFPA 90A OR SMACNA STANDARDS.
2. LONGITUDINAL SEAMS: PITTSBURGH LOCK SHALL BE USED ON ALL LONGITUDINAL SEAMS; SNAP-LOCK OR BUTTON PUNCH SEAMS ARE NOT ACCEPTABLE. IF SMACNA SEAL CLASS A OR B IS SPECIFIED, THE LONGITUDINAL SEAM SHALL BE SEALED FROM THE INSIDE.
3. MINIMUM OPERATING PRESSURE FOR EACH DUCT SYSTEM:
 - a. SCHEDULED EXTERNAL STATIC PRESSURE FOR EACH FAN OR HVAC UNIT, POSITIVE OR NEGATIVE.
 - b. ADJUST UPWARD TO NEAREST PRESSURE CLASS TABULATED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
4. DUCT CLASSIFICATION IS APPLICABLE TO ALL DUCTWORK, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - a. CONSTANT VOLUME SUPPLY AIR SYSTEMS COMPLETE FROM FAN DISCHARGE TO AIR OUTLETS (+1' W.G.).
 - b. OUTSIDE AIR SUPPLY SYSTEMS (+1' W.G.).
 - c. FLEXIBLE DUCTS (+1' W.G.).
 - d. RELIEF, RETURN AND EXHAUST SYSTEMS (+2' W.G.).

A. MATERIALS:

1. SHEET METAL:
 - a. STEEL SHEETS:
 - (1) COLD ROLLED STEEL SHEETS, LOCK FORMING QUALITY.
 - (2) MEETING ASTM A653 AND A-653M.
 - (3) BLACK OR GALVANIZED AS SPECIFIED.
 - (4) GALVANIZING: 0.9 OUNCES PER SQUARE FOOT BOTH SIDES.
 - b. STAINLESS STEEL SHEETS:
 - (1) ANSI TYPE 316 AS SPECIFIED.
 - (2) CONCEALED: FINISH NO. 2B OR NO. 3.
 - (3) EXPOSED: FINISH NO. 4.
2. MISCELLANEOUS PRODUCTS:
 - a. DUCT SEALANTS:
 - (1) SEALING COMPOUND: SHALL BE FLEXIBLE WATER BASED ADHESIVE FOR USE IN ALL PRESSURES. SEALANT SHALL BE UV-RESISTANT, CONFORM TO ASTM E84, BE UL 723 LISTED AND MEET NFPA REQUIREMENTS FOR CLASS 1 DUCTWORK.
 - (2) GASKETS:
 - (a) CONTINUOUS, REINFORCED, INERT SELF-CONFORMING TYPE.
 - (b) 1/2" INCH THICK.
 - (c) WIDTH: TO MATCH ANGLE CONNECTION.
 - (d) DUCTMATE INDUSTRIES MODEL 440, OR EQUAL.
 - b. HARD-SETTING JOINT TAPE:
 - (1) TWO-PART TAPE:
 - (a) MINERAL IMPREGNATED WOVEN FIBER TAPE.
 - (b) IMPREGNATED WITH ACTVATOR/ADHESIVE OF POLYVINYL ACETATE TYPE.
 - (2) UL LISTED:
 - (a) FLAME SPREAD: 10.
 - (b) SMOKE DEVELOPED: 0.
 - (3) SIMILAR TO HARDCAST.
 - c. SPRING FASTENERS: SELF-EJECTING OVAL HEAD STUD AND RECEPTACLE WITH SCREWDRIWER SLOT.
 - d. SLIDE-ON TRANSVERSE JOINT CONNECTORS:
 - (1) PREFABRICATED SLIDE-ON TRANSVERSE DUCT CONNECTORS AND COMPONENTS SHALL BE ACCEPTED. DUCTS CONSTRUCTED USING PREFABRICATED SYSTEMS SHALL REFER TO THE MANUFACTURER GUIDELINES FOR SHEET GAUGE, INTERMEDIATE REINFORCEMENT SIZE AND SPACING, AND PROPER JOINT REINFORCEMENT. DUCTMATE INDUSTRIES, WARD, NEXUS, OR APPROVED EQUAL.
 - (2) FORMED-ON FLANGES SHALL BE CONSTRUCTED AS T-25 A/B FLANGES, OF WHICH THE CONSTRUCTION GUIDELINES ARE GIVEN IN FIGURE 1-4 OF THE 1995 SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, SECOND EDITION. NO OTHER CONSTRUCTION STANDARDS PERTAINING TO FORMED-ON FLANGES SHALL BE ACCEPTED.
 - (3) FORMED-ON FLANGES SHALL INCLUDE THE USE OF CORNERS, BOLTS, CLEAT AND GASKET.
 - (4) ALL COMPONENTS SHALL BE METAL UNLESS OTHER MATERIALS ARE REQUIRED BY CODE OR SPECIFIED.
3. FLEXIBLE CONNECTIONS:
 - a. FLEXIBLE CONNECTIONS SHALL BE USED WHERE DUCTWORK CONNECTS TO ROTATING, VIBRATING OR NOISE PRODUCING MACHINERY. CONNECTORS SHALL BE ATTACHED IN SUCH A MANNER TO PROVIDE AN AIRTIGHT AND WATERPROOF SEAL.
 - b. WITH METAL EDGES AT EACH END:
 - (1) NO. 24 USSG GALVANIZED STEEL.
 - c. 2 INCH SLACK IN FABRIC.
 - d. INSTALL TO ALLOW MINIMUM MOVEMENT OF 1 INCH.
 - e. LENGTH OF FABRIC CONNECTIONS:
 - (1) MINIMUM: 4 INCHES.
 - (2) MAXIMUM: 10 INCHES.
 - f. MATERIALS:
 - (1) INDOOR INSTALLATIONS SHALL BE A UL LISTED, FIRE RETARDANT NEOPRENE OR VINYL COATED WOVEN FIBERGLASS FABRIC, MINIMUM DENSITY 30 OUNCES PER SQUARE YARD AND RATED TO 200°F.

- (2) OUTDOOR INSTALLATIONS SHALL BE A UL LISTED ULTRA VIOLET LIGHT RESISTANT HYPALON COATED WOVEN FIBERGLASS FABRIC, MINIMUM DENSITY 24 OUNCES PER SQUARE YARD AND RATED TO 250°F.
 - (3) FLAME SPREAD RATING: 25 MAXIMUM, SMOKE DEVELOPED RATING: 50 MAXIMUM
 - (4) INSULATED CONNECTIONS:
 - (a) TWO LAYERS OF FABRIC WITH 1/4 INCH THICK FIBERGLASS, 1.5 POUND DENSITY.
 - (b) PERFORMANCE AS PREVIOUSLY SPECIFIED IN 3-F-(2).
 - (5) PROVIDE WIRE EMBEDDED UNCOATED GLASS FABRIC WITH SEWN SEAMS FOR AIR TEMPERATURE OVER 150°F.
4. TURNING VANES:
- a. GALVANIZED STEEL DUCTWORK: GALVANIZED STEEL OR PAINTED BLACK STEEL, EXCEPT AS NOTED.
 - b. OTHER DUCTWORK: SAME MATERIAL AS DUCTWORK.
 - c. CONSTRUCTION SHALL MEET OR EXCEED SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".
 - (1) USE OF SINGLE WALL VANES WITH 3/4 INCH TRAILING EDGE SHALL BE LIMITED TO MAXIMUM AIR VELOCITY OF 2,000 FEET PER MINUTE AND A MAXIMUM DUCT DIMENSION OF 18 INCHES.
 - (2) DOUBLE WALL VANES SHALL BE USED IN DUCTS WHERE AIR VELOCITY EXCEEDS 2,000 FEET PER MINUTE, OR ANY DUCT WITH A DIMENSION OVER 18 INCHES.
 - (3) VANE LENGTH: PROVIDE SEPARATE EQUAL-SIZE SECTIONS FOR VANE LENGTH GREATER THAN THOSE PREVIOUSLY INDICATED IN PARAGRAPH 1.03. REFERENCED STANDARDS.
 - (4) VANE RUNNERS: SMACNA TYPE 1 OR 2 ACCEPTABLE.
 - (5) TAB SPACING SHALL BE AS SPECIFIED IN FIGURE 2-3 OF THE SMACNA MANUAL, HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, 3RD EDITION, 2005. RAIL SYSTEMS WITH NON-STANDARD TAB SPACING SHALL NOT BE ACCEPTED.
5. SINGLE-WALL RECTANGULAR DUCTS AND FITTINGS:
- a. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", BASED ON INDICATED STATIC -PRESSURE CLASS - BUT NO LESS THAN 2" - UNLESS OTHERWISE INDICATED.
 - b. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURE FOR "RECTANGULAR DUCT TRANSVERSE JOINTS" FOR STATIC -PRESSURE CLASS APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE".
 - c. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FIGURE FOR "ROUND DUCT LONGITUDINAL SEAMS" FOR STATIC -PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE".
 - d. MATERIALS OF CONSTRUCTION:
 - GALVANIZED STEEL: SUPPLY AND RETURN, GENERAL AND TOILET EXHAUST DUCTS.
 - TYPE 316 STAINLESS STEEL: VAPOR HOODS, SHOWER, DISHWASHER, EXHAUST DUCTS.
 - ALUMINUM: VAPOR HOODS, SHOWER, AND DISHWASHER EXHAUST DUCTS.
 - KITCHEN EXHAUST DUCTWORK
6. ROUND DUCT TAKE-OFF FITTINGS:
- e. FACTORY-FABRICATED SPIN-IN FITTING.
 - f. DIE-FORMED GALVANIZED STEEL.
 - g. PRESSURE RATINGS:
 - (1) STANDARD CONSTRUCTION - UP TO 1/2 INCH STATIC PRESSURE.
 - h. BALANCING DAMPER:
 - (1) LOCKING REGULATOR.
7. ROUND AND OVAL DUCTWORK:
- GENERAL:
- a. FACTORY-FABRICATED SPIRAL LOCKSEAM DUCT, EXCEPT AS OTHERWISE INDICATED.
 - b. FACTORY-FABRICATED LONGITUDINAL SEAM ACCEPTABLE FOR DUCTS LARGER THAN STANDARD FACTORY SIZES.
 - c. FACTORY-FABRICATED FITTINGS:
 - (1) SAME MANUFACTURER AS DUCT AND AS DETAILED.
 - (2) SAME MATERIAL AND CONSTRUCTION AS DUCT IN WHICH INSTALLED.
 - (3) TEES: VAV BOX CONNECTION TO DUCT LOOP:
 - (a) CONICAL SADDLE TAP OR CONICAL TEE FITTING.
 - (b) CENTER-LINE TAKE-OFF, UNLESS OTHERWISE INDICATED.
 - (c) CONTINUOUSLY WELDED SEAMS.
 - (4) ELBOWS:
 - (a) STANDING SEAMS.
 - (b) MITERED ELBOWS WITH CONTINUOUSLY WELDED SEAMS:
 - (i) 2 GORES - LESS THAN 35°
 - (ii) 3 GORES - 36°F THROUGH 71°
 - (iii) 5 GORES - OVER 71°
 - (c) ADJUSTABLE ELBOWS ALLOWED DOWNSTREAM OF VARIABLE VOLUME BOXES, RETURN/EXHAUST FANS AND FAN COIL UNITS PROVIDED EACH JOINT IS SEALED.
 - (5) ALSO ACCEPTABLE:
 - (a) DIE-STAMPED RADIUS ELBOWS FOR DUCTS 8 INCHES OR SMALLER.
 - (b) MITERED ELBOWS AS SPECIFIED ABOVE FOR DUCTS LARGER THAN 8 INCHES.
 - d. NOT ACCEPTABLE:
 - (1) CORRUGATED OR FLEXIBLE METAL DUCT.
 - (2) PLEATED ELBOWS.
 - (3) ACOUSTIFLEX.

8. SINGLE-WALL DUCTS:
 - a. MATERIALS OF CONSTRUCTION:
 - (1) GALVANIZED STEEL: SUPPLY AND RETURN, GENERAL AND TOILET EXHAUST DUCTS.
 - b. METAL GAUGES:
 - (1) COMPLY WITH SMACNA STANDARDS.
 - (2) COMPLY WITH NFPA 90A WHEN DUCTS TRAVERSE THROUGH SMOKE ZONES.
 - c. SIMILAR TO UNITED MCGILL "UN-FORM".
9. FLEXIBLE DUCTS:
 1. GENERAL:
 - a. USE ONLY WHERE INDICATED
 - b. UL 181, CLASS 1 AIR DUCT
 - c. LABELED FOR COMPLIANCE WITH UMC
 - d. WITH POLYMERIC LINER
 - e. DO NOT USE ON EXHAUST SYSTEMS
 2. STATIC PRESSURE CLASS UP TO 1 INCH W.G.:
 - a. INSULATED FLEXIBLE DUCT:
 - (1) MAXIMUM WORKING PRESSURE: 1.0 INCHES W.G.
 - (2) NOMINAL 1 INCH INSULATION WITH VAPOR BARRIER.
 - (3) MAXIMUM THERMAL CONDUCTIVITY 0.27 BTU/HSQ. FT. *F/IN AT 75°F.
 - (4) SIMILAR TO THERMAFLEX M-ME.
 - b. USE DOWNSTREAM OF VAV BOXES OR AT DISTRIBUTION DEVICES IN A CONSTANT VOLUME SYSTEM.
 - c. MAXIMUM LENGTH 6 FEET.
 3. FACTORY INSTALLED COLLAR.
 4. FLEXIBLE DUCTWORK CLAMPS:
 - a. STRAPS APPROVED FOR USE WITH FLEXIBLE DUCTWORK.
 - b. STAINLESS STEEL STRAP.
 - c. ADJUSTABLE SCREW TYPE.
 - d. SIMILAR TO IDEAL.
 11. ACCESS DOORS:
 - (1) IN ACCORDANCE WITH SMACNA - DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, 3RD EDITION, 2005, EXCEPT AS NOTED.
 2. IN DUCTWORK:
 - a. INSULATED OR NON-INSULATED, SAME AS DUCT.
 - b. HINGED, EXCEPT WHERE SLIDING OR REMOVABLE TYPE REQUIRED. LATCH, EQUAL TO VENTLOK NO. 100.
 - c. SIZE:
 - (1) 20 INCHES X 14 INCHES.
 - (2) DUCTS LESS THAN 16 INCHES: ONE DIMENSION 20 INCHES, OTHER DIMENSION 2 INCHES LESS THAN DUCT WIDTH.
 - (3) LARGER SIZES WHERE REQUIRED FOR ACCESS.
 - d. PROVIDE IN FOLLOWING LOCATIONS:
 - (1) COILS IN DUCTS: ENTERING AND LEAVING SIDE.
 - (2) AUTOMATIC DAMPERS: LINKAGE SIDE.
 - (3) BALANCING DAMPERS AND BACKDRAFT DAMPERS
 - (4) FIRE DAMPERS, SMOKE DAMPERS AND COMBINATION FIRE SMOKE DAMPERS.
 - (5) DUCT-MOUNTED SMOKE DETECTORS, SPRINKLER HEADS, HEAT DETECTORS.
 - (6) INLET AND OUTLET SIDES OF EACH IN-LINE CENTRIFUGAL AND AXIAL FAN.
 - (7) ALL CONTROLS, SENSING, PROCESSING, TRANSMITTING AND ACTUATING DEVICES
 - d. MAKE COMPLETELY ACCESSIBLE. PROVIDE PERMANENT LABEL ON ALL ACCESS DOORS IDENTIFYING THE CONCEALED COMPONENTS AS SPECIFIED ABOVE.
1. DUCTWORK INSTALLATION:
 1. GENERAL:
 - a. DUCT DIMENSIONS INDICATED ARE NET, INSIDE, CLEAR, DIMENSIONS:
 - (1) FOR INTERNALLY LINED DUCTS, ADD LINING THICKNESS TO DETERMINE METAL DUCT FOR DIMENSIONS.
 - b. AT EXPOSED DUCT PENETRATIONS OF WALLS, FLOORS AND CEILINGS, PROVIDE SHEET METAL ANGLE TYPE ESCUTCHEONS.
 - c. TRANSITIONS:
 - (1) PITCH SIDES OF DUCT IN "DIVERGING" OR "CONVERGING" AIRFLOW MAXIMUM OF 15 INCLUDING ANGLE.
 - d. DUCT OPENINGS:
 - (1) PROVIDE OPENINGS WHERE REQUIRED TO ACCOMMODATE THERMOMETERS, SMOKE DETECTORS, CONTROLLERS, ETC.
 - (a) INSERT THROUGH AIRTIGHT RUBBER GROMMETS.
 - (2) AT FIRE DAMPERS ALLOW ADEQUATE LENGTH OF DUCT TO INSTALL ACCESS DOOR.
 - e. FLEXIBLE DUCT CONNECTIONS:
 - (1) INSTALL AT:
 - (a) AT CONNECTIONS TO FANS, SOUND ATTENUATORS, FAN COILS, HEAT PUMPS, AIR CONDITIONING UNITS AND ALL AIR HANDLING EQUIPMENT AS INDICATED ON DRAWINGS.



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MECHANICAL SPECIFICATIONS SHEET #3

DOB NOW JOB # M01217029-P1

M-004.00

- f. VOLUME DAMPERS:
- (1) INSTALL DAMPERS WHERE SPECIFIED.
 - (2) INSTALL DAMPER IN BRANCH DUCT FOR EVERY DIFFUSER AT ACCESSIBLE LOCATION MOST REMOTE FROM DIFFUSER.
 - (3) INSTALL CABLE OPERATED VOLUME DAMPERS FOR ALL INACCESSIBLE LOCATIONS.

2. RECTANGULAR DUCT JOINTS:

- a. STANDING SEAMS, EXCEPT WHERE FLUSH DRIVE SLIP SEAM CALLED FOR.
- b. USE FLUSH, DRIVE-SLIP, FOR:
- (1) EXPOSED DUCTS.
 - (2) WHERE REQUIRED FOR CLEARANCE.
- c. "DUCTMATE" SYSTEM JOINTS, MAY BE USED IN LIEU OF STANDING SEAMS. PLASTIC CLIPS ARE NOT ALLOWED.

3. JOINT SEALING:

- a. SEAL ALL TRANSVERSE, LONGITUDINAL AND SPIRAL JOINTS OF ALL SHEET METAL DUCTS BY ONE OF FOLLOWING METHODS:
- (1) SIX OUNCE CANVAS STRIP, SIX INCHES WIDE.
 - (a) ADHERE WITH LAGGING ADHESIVE. HARDCAST TWO PART II DUCT SEALING SYSTEM: DT-5400 TAPE WITH RTA-50 SEALANT. DUCT TAPE NOT ALLOWED.
 - (2) SEAL PUNCHED HOLES AND CORNER CRACKS. DUCT TAPE NOT ALLOWED.
- b. AFTER INSTALLATION AND TESTING RESEAL JOINTS FOUND TO BE LEAKING.

1. ROUND AND OVAL DUCTWORK:

- a. JOINTS BETWEEN DUCTS:
- (1) MADE WITH BEADED SLEEVE JOINTS.
 - (2) DUCT SEALER APPLIED TO MALE END.
 - (3) MECHANICALLY FASTENED WITH SHEET METAL SCREWS OR POP RIVETS.
 - (4) OVER JOINT AND SCREW OR RIVET HEADS, APPLY COATING OF DUCT SEALER.
 - (5) SEAL AND TAPE AS SPECIFIED FOR RECTANGULAR DUCTWORK.
- b. JOINTS, DUCT AND FITTING:
- (1) SLIP PROJECTING COLLAR OF FITTINGS INTO DUCT WITH A MINIMUM INSERTION LENGTH OF 2 INCHES.
 - (2) APPLY DUCT SEALER. SEAL AND TAPE AS SPECIFIED FOR RECTANGULAR DUCTWORK.
- c. JUNCTIONS BETWEEN DUCTS:
- (1) BRANCH TAKE-OFF: 45 DEGREES OR
 - (2) BRANCH TAKE-OFF: CONICAL 90 DEGREES
- d. HORIZONTAL SUPPORTS SHALL BE ONE-PIECE CLAMP BAND STRAP, MINIMUM ONE STRAP PER SECTION. SUPPORT FITTINGS AS REQUIRED BY SMACNA.
- e. VERTICAL SUPPORTS SHALL BE ONE OF THE FOLLOWING:
- (1) CLAMP BANDS WITH EXTENDED ENDS SUPPORTED AT EACH FLOOR.
 - (2) CLAMP BANDS WITH KNEE BRACING.
- f. USE ANGLE IRON BRACES FOR DUCT REINFORCING. REFER TO THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, 3RD EDITION, 2005, FIGURE NUMBERS 1-9 THROUGH 1-12.

5. FLEXIBLE DUCT:

- a. PROVIDE CONTINUOUS, SINGLE PIECES.
- b. MAXIMUM LENGTH:
- (1) ABOVE 1 INCH WATER GAUGE STATIC PRESSURE: 12 INCHES OR AS SPECIFIED.
 - (2) UNDER 1 INCH WATER GAUGE STATIC PRESSURE: 6 FEET.
- (3) LOCAL CODES OR UNION RULES TAKE PRECEDENCE AND MAY REDUCE THE MAXIMUM LENGTHS SPECIFIED.
- (4) CONNECT TO DUCT COLLARS, TERMINAL UNIT CONNECTIONS AND ROUND AIR OUTLETS PER MANUFACTURER'S INSTRUCTIONS.
- (5) SECURE WITH STRAP CLAMPS SPECIFIED ABOVE.
- a. INSTALLATION:
- (1) SUPPORT PER SMACNA.
 - (2) FLEXIBLE DUCT IS NOT ALLOWED IN LENGTHS GREATER THAN THAT SPECIFIED. BENDS, TWISTS OR SAGGING OF FLEXIBLE DUCT IS NOT ACCEPTABLE.
 - (3) MINIMUM INSIDE BENDING RADIUS SHALL BE A MINIMUM OF TWO DUCT DIAMETERS. IF MINIMUM RADIUS CANNOT BE MAINTAINED, PROVIDE SHEET METAL PLENUM OVER AIR OUTLET AND CONNECT FLEXIBLE DUCT TO SIDE OF PLENUM. PAINT INTERIOR FLAT BLACK.
 - (4) MAXIMUM - ONE 90 DEGREE TURN.
 - (5) INSTALL AS STRAIGHT AS POSSIBLE.
 - (6) FLEXIBLE DUCT IS ONLY ALLOWED ABOVE LAY-IN TYPE ACCESSIBLE CEILING ONLY.

23 33 13 - DAMPERS

A. ACCEPTABLE MANUFACTURERS:

1. STATIC AND DYNAMIC FIRE DAMPERS: RUSKIN DBD2 STYLE B, DBD2 STYLE B, OR APPROVED EQUAL BY AIR BALANCE, AWW, POTTORFF, GREENHECK.
2. COMBINATION FIRE/SMOKE DAMPERS: RUSKIN FSD60, FSD60-3 (3 HOUR), FSD 37, FSDR25 (ROUND) OR APPROVED EQUAL BY AIR BALANCE OR POTTORFF.
3. ACTUATORS: BELIMO FSNF120, FSNF24, HONEYWELL ML4115, ML8115, OR EQUAL.
4. REMOTELY ADJUSTABLE OPERATORS WITH BALANCING DAMPERS:
 - a. REMOTE ADJUSTABLE OPERATOR SHALL BE YOUNG REGULATOR MODEL NUMBER 270-896 WITH 'C' BRACKET.
 - b. RECTANGULAR BALANCING DAMPER SHALL BE YOUNG REGULATOR MODEL NUMBER 830ACC FOR EXTERNAL CONTROL OR MODEL NUMBER 830ACC-2 FOR INTERNALLY CONTROLLED APPLICATIONS.
 - c. ROUND BALANCING DAMPER SHALL BE YOUNG REGULATOR MODEL NUMBER 5020CC FOR EXTERNAL CONTROL OR MODEL NUMBER 5020CC-2 FOR INTERNALLY CONTROLLED APPLICATIONS.

B. FIRE DAMPERS:

1. PROVIDE STATIC AND DYNAMIC FIRE DAMPERS IN DUCTS PENETRATING FIRE RATED WALLS, FLOORS, AND CEILINGS AS REQUIRED BY NFPA LOCAL CODES AND AUTHORITIES REGARDLESS IF SHOWN OR NOT SHOWN ON THE DRAWINGS. DAMPERS SHALL BE FACTORY MARKED FOR STATIC OR DYNAMIC USE.
2. PROVIDE CONVENIENTLY LOCATED ACCESS DOORS, OR AMPLIFIED SIZE FOR RESETTING THE DAMPERS. DUCT MOUNTED GRILLES, REGISTERS OR DIFFUSERS CAN BE USED FOR ACCESS AS LONG AS SUCH ACCESS IS READILY AVAILABLE AS DETERMINED BY THE ARCHITECT.
3. INTEGRAL SLEEVE FRAME SHALL BE MINIMUM 20 GAUGE ROLL FORMED, GALVANIZED STEEL. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DETAILS.
4. DAMPERS SHALL BE SPRING-LOADED WITH SHUTTER STORED OUT OF THE AIRSTREAM TO PROVIDE MINIMUM 95 PERCENT FREE AREA.
5. DYNAMIC RATED FIRE DAMPERS SHALL BE LABELED IN ACCORDANCE WITH UL 555. STATIC FIRE DAMPERS SHALL BE LABELED IN ACCORD WITH UL 555.
6. DAMPERS SHALL BE ACTUATED BY UL-APPROVED FUSIBLE LINK. UPON OPERATION OF THE LINK, THE DAMPERS SHALL CLOSE AUTOMATICALLY AND REMAIN TIGHTLY CLOSED. FUSIBLE LINKS SHALL OPERATE APPROXIMATELY 50 DEGREES F ABOVE THE MAXIMUM TEMPERATURE THE DUCT SYSTEM WILL ENCOUNTER UNDER NORMAL OPERATION, BUT NOT LESS THAN 165 DEGREES F.
7. DAMPERS SHALL BE OF TYPES ACCEPTABLE TO THE LOCAL AUTHORITIES, OWNER AND ARCHITECT.

C. COMBINATION FIRE/SMOKE DAMPERS:

1. PROVIDE DAMPERS OF SIZE AND LOCATION AS INDICATED ON THE DRAWINGS AND AS SPECIFIED.
2. EACH DAMPER SHALL BE CLASSIFIED BY UNDERWRITERS LABORATORIES AS A LEAKAGE RATED DAMPER FOR USE IN SMOKE CONTROL SYSTEMS UNDER THE LATEST VERSION OF UL555S, AND BEAR A UL LABEL ATTESTING TO SAME. THE DAMPER LEAKAGE RATING UNDER UL555S SHALL BE LEAKAGE CLASS 1 (4 CUBIC FEET PER MINUTE PER SQUARE FOOT AT 1 INCH WATER GAUGE).
3. IN ADDITION TO THE LEAKAGE RATINGS ALREADY SPECIFIED HEREIN, THE DAMPERS AND THEIR ACTUATORS SHALL BE QUALIFIED UNDER UL555S TO AN ELEVATED TEMPERATURE OF 250°F, 350°F, OR 450°F DEPENDING UPON THE ACTUATOR. APPROPRIATE LISTED ELECTRONIC ACTUATORS SHALL BE INSTALLED BY THE DAMPER MANUFACTURER AT TIME OF DAMPER FABRICATION.
4. EACH DAMPER SHALL BE EQUIPPED WITH INDICATION POSITION SWITCHES CONSISTING OF TWO-POSITION INDICATOR SWITCHES LINKED DIRECTLY TO THE DAMPER BLADE TO PROVIDE THE CAPABILITY OF REMOTELY INDICATING DAMPER BLADE POSITION.
5. HEAT-ACTUATED TEMPERATURE RELEASE DEVICE:
 - a. CONTROL CLOSE AND LOCK DAMPER DURING TEST, SMOKE DETECTION, POWER FAILURE, OR FIRE CONDITIONS THROUGH ACTUATOR CLOSURE SPRING. AT NO TIME SHALL ACTUATOR DISENGAGE FROM DAMPER BLADES.
 - b. ALLOW DAMPER TO BE AUTOMATICALLY AND REMOTELY RESETTABLE AFTER TEST, SMOKE DETECTION, OR POWER FAILURE CONDITIONS. AFTER EXPOSURE TO HIGH TEMPERATURE OR FIRE, INSPECT DAMPER BEFORE RESET TO ENSURE PROPER OPERATION.
 - c. CONTROLLED CLOSURE AND LOCKING OF DAMPER SHALL OCCUR IN 6 TO 15 SECONDS TO ALLOW DUCT PRESSURE TO EQUALIZE. INSTANTANEOUS CLOSURE IS NOT ACCEPTABLE.
 - d. ELECTRIC FUSE LINK (EFL) WITH ELECTRIC ACTUATORS.
 - e. RELEASE TEMPERATURES: 165 DEGREES F.
6. COMBINATION FIRE/SMOKE DAMPER ACTUATORS SHALL BE POWERED BY A 24 VOLT DIVISION 26. AC SIGNAL FROM

D. ACTUATORS:

1. ACTUATOR MOTOR SHALL BE SILENT MICROPROCESSOR-CONTROLLED PROVIDING ELECTRONIC CUT-OFF.
2. MOTOR SHALL BE DIRECT-COUPLED AND INCAPABLE OF BURNING OUT IF STALLED BEFORE FULL ROTATION IS REACHED.
3. HOUSING, GEARS AND TOOTHED COLD-WELD CLAMP SHALL BE STEEL.
4. OPERATION TIME: 5 TO 15 SECONDS AT 32 TO 350 DEGREES F.

E. ACCESSORIES FOR DAMPERS:

1. INTERLOCK SWITCH: ELECTRICALLY AND MECHANICALLY LOCK DAMPER IN CLOSED POSITION WHEN DUCT TEMPERATURES EXCEED 165 DEGREES F AND STILL ALLOW APPROPRIATE AUTHORITY TO OVERRIDE INTERLOCK SWITCH AND OPERATE DAMPER AS MAY BE REQUIRED FOR SMOKE MANAGEMENT FUNCTIONS. ALLOW DAMPER TO REMAIN OPERABLE WHILE TEMPERATURE IS BELOW 350 DEGREES F. SWITCH SHALL COMPLY WITH NFPA 92A AND BE UL CLASSIFIED.
2. INTERFACE WITH SMOKE DETECTORS, BUILDING FIRE ALARM SYSTEMS OR REMOTE INDICATING AND CONTROL STATIONS.
3. HIGH-LIMIT TEMPERATURE SENSOR:
 - a. RETURNS DAMPER TO FIRE PROTECTION MODE WHEN TEMPERATURES REACH OPERATIONAL LIMIT OF DAMPER AND ACTUATOR ASSEMBLY OF 350 DEGREES F.
 - b. CONFORMS TO NFPA 92A.
 - c. REPLACES CONTROLLED CLOSURE DEVICES ON STANDARD DAMPERS.
4. BLADE POSITION INDICATOR SWITCHES: TWO POSITION-INDICATOR SWITCHES LINKED DIRECTLY TO DAMPER BLADE TO REMOTELY INDICATE DAMPER BLADE POSITION.
5. PICTURE FRAME MOUNTING ANGLES:
 - a. ONE-PIECE, ROLL FORMED RETAINING ANGLES, 1.5 BY 1.5 INCHES. REQUIRES FACTORY SLEEVE.
 - b. FACTORY-MATCHED AND -SHIPPED ON INDIVIDUAL DAMPER WITH FACTORY-PRE-PUNCHED SCREW HOLES.
6. STEEL MULLIONS: FOR DAMPERS IN OVERSIZED MASONRY WALL OPENINGS.
7. PROVIDE BREAKAWAY CONNECTION: DRIVEMATE, DUCTMATE OR EQUAL.

F. BALANCING DAMPERS - SINGLE BLADE:

1. PROVIDE VOLUME DAMPERS AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS FOR PROPER BALANCING AND DISTRIBUTION OF AIR, IN THE VARIOUS BRANCHES OF THE DUCTWORK FOR USE IN TESTING AND BALANCING THE SYSTEM. DAMPERS SHALL BE INSTALLED SEPARATE AND INDEPENDENT FROM THE DAMPER SPECIFIED TO BE SET BEHIND SUPPLY, RETURN AND EXHAUST AIR GRILLES. PROVIDE SINGLE BLADE DAMPERS IN DUCTS 24 INCHES IN WIDTH OR LESS, OR 12 INCHES IN HEIGHT OR LESS. PROVIDE MULTIPLE BLADE DAMPERS FOR ALL OTHER DUCT SIZES. COORDINATE WITH THE AIR BALANCING CONTRACTOR AND PROVIDE ADDITIONAL DAMPERS REQUIRED FOR PROPER AIR BALANCE.
2. REMOTE CABLE CONTROLS FOR BALANCING DAMPERS:
 1. MANUFACTURER SHALL SUPPLY ALL NECESSARY HARDWARE FOR SIMPLE INSTALLATION OF REMOTE CABLE CONTROLS SYSTEM INCLUDING THE BOWDEN ALUMINUM ANGLE BRACKET AND THE BOWDEN CONTROL HUB TO ACCOMMODATE THE CABLE CONTROL SYSTEM MOUNTED ON THE DAMPER.
 2. CABLE CONTROL SYSTEM SHALL CONSIST OF BOWDEN CABLE 0.054 INCH STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 3/16 INCH FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH TO INSURE POSITIVE OPERATION FOR UP TO 50 FEET (CAN BE REDUCED IF THERE ARE MULTIPLE TURNS OR BENDS).
 3. CONTROL KIT SHALL BE DESIGNED FOR USE WITH INTERNALLY OR EXTERNALLY CONTROLLED ROUND OR RECTANGULAR DAMPERS AND SHALL CONSIST OF 14 GAUGE STEEL RACK AND PINION GEAR DRIVE TO CONVERT ROTARY MOTION TO PUSH-PULL MOTION. CONTROL SHAFT SHALL BE D-STYLE FLATTENED WITH 265 DEGREE ROTATION PROVIDING GRADUATIONS FOR POSITIVE LOCKING CONTROL AND LINEAR TRAVEL.
 4. CONTROL MOUNTING OPTIONS INCLUDE CEILING FRAMEWORK, BEHIND GRILLES, ON OR INSIDE PLENUM SLOT DIFFUSERS AND OTHER VARIOUS TYPES OF DIFFUSERS OR THROUGH CEILING VIA 1 INCH DIAMETER INCONSPICUOUS ACCESS PORT. TWISTING TYPE CABLES ARE NOT ACCEPTABLE.
 5. MANUAL QUADRANT SHALL BE COMMERCIAL QUALITY, LOCKING TYPE FOR PROVIDE EXTENDED BASE FOR EXTERNALLY INSULATED DUCTWORK.

23 33 19 - ACOUSTICS

A. GENERAL:

1. NOISE LEVELS, GENERATED BY EQUIPMENT AND DUCTWORK, SHALL BE ATTENUATED TO PERMIT ATTAINMENT OF SOUND PRESSURE LEVELS IN ALL 8 OCTAVE BANDS IN OCCUPIED SPACES THAT CONFORM TO THE FOLLOWING NOISE CRITERIA (NC) CURVES:
 - a. ALL SPACES: NC 25-30

B. ACCEPTABLE MANUFACTURERS:

1. SOUND LININGS: CERTAINTED TOUGHGUARD, SCHULLER, OWENS-CORNING FIBERGLAS

C. DUCT LINING:

1. FIBER GLASS DUCT LINER DOWNSTREAM OF TERMINAL UNITS AND FAN COILS SHALL BE FINISHED WITH A NEOPRENE COATED FACING, STENCILED NFPA 90.
- 1.5 IN. W.G. PRESSURE DUCT LINER SHALL BE FINISHED WITH PERFORATED 24 GAUGE GALVANIZED SHEET METAL, 28% MINIMUM OPEN AREA OR FOIL FACING.
- THICKNESS:
 - a. IN DUCTWORK: MINIMUM 1 INCH, 1 1/2 POUNDS PER CUBIC FOOT DENSITY MATTE-FACED UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.
 - b. LINEAR DIFFUSER SUPPLY PLENUMS: MINIMUM 1/2 INCH, 1 1/2 POUND DENSITY.
- FLAMESPREAD SHALL BE MAXIMUM 25 FUEL CONTRIBUTED AND SMOKE DEVELOPED SHALL BE MAXIMUM 50.
- WHERE DUCT LINER IS APPLIED, INSULATION IS NOT REQUIRED.
- MINIMUM SOUND ABSORPTION COEFFICIENTS (ASTM C423 MOUNTING TYPE A) FOR SOUND ABSORBING DUCT LINING MATERIAL WHEN TESTED WHILE MOUNTED PER ASTM E795:
 - a. 12" THICKNESS: 0.45 NRC
 - b. 1" THICKNESS: 0.70 NRC
 - c. 1.5" THICKNESS: 0.85 NRC
 - d. 2" THICKNESS: 0.95 NRC
- DYNAMIC LOSS COEFFICIENT: MAXIMUM 1.2.
- K FACTOR: MAXIMUM 0.23 BTU/INCH-HOUR - DEGREE FAHRENHEIT - SQUARE FOOT, R VALUE MINIMUM: 4.2 AT 1" THICKNESS.

D. INSTALLATION OF SOUND-LININGS:

1. ADHERE WITH 6 INCH WIDE STRIPS OF ADHESIVE AT 12 INCH CENTERS AT ALL JOINTS IN LINING.
2. IN ADDITION, SECURE WITH WELD PINS AND 2 INCH DIAMETER WASHERS ON MAXIMUM 16 INCH CENTERS AND IN COMPLIANCE WITH SMACNA STANDARDS.
3. COAT ALL EDGES WITH SEALER.
4. PROVIDE CONTINUOUS SHEETMETAL EDGE PROTECTION NOSINGS AT ENTERING EDGES OF LINED DUCT SECTIONS AND ALL JOINTS.
5. DIMENSIONS OF LINED DUCTWORK ARE CLEAR INSIDE DIMENSIONS AFTER LINING HAS BEEN INSTALLED.
6. EXTENT OF DUCTWORK SOUND-LININGS:
 - a. EXHAUST SYSTEMS: ALL DUCTWORK UPSTREAM AND DOWNSTREAM OF FAN SYSTEM.
 - b. DUCTWORK DOWNSTREAM OF HEAT PUMPS, AC UNITS OR FAN-POWERED TERMINAL UNITS: MINIMUM TEN (10) FEET. BRANCH TAKEOFFS TO DIFFUSERS ARE NOT ALLOWED WITHIN FIVE (5) FEET FROM DISCHARGE OUTLET.
7. ALL TRANSFER DUCTS.
8. ALL LINEAR DIFFUSER SUPPLY PLENUMS.

23 34 00 - FANS

A. ACCEPTABLE MANUFACTURERS:

1. CENTRIFUGAL FANS: TWIN CITY, CHICAGO, HOWDEN, LOREN COOK, GREENHECK
2. CABINET FANS: PENN, PANASONIC, GREENHECK

B. GENERAL - ALL FANS:

1. PROVIDE FANS THAT ARE QUIET OPERATING AND NON-OVERLOADING THE ENTIRE RANGE OF OPERATION.
 2. STATICALLY AND DYNAMICALLY BALANCE FAN WHEELS/IMPELLERS AT THE FACTORY AND CERTIFY BALANCE.
 3. PROVIDE PRECISION SELF-ALIGNING BEARINGS DESIGNED TO PREVENT LEAKAGE OF OIL OR GREASE. PROVIDE CUPS, OIL CHAMBERS, ZERK OR ALUMITE LUBRICATION FITTINGS IN ACCESSIBLE LOCATIONS FOR EASE OF LUBRICATION.
 4. PROVIDE COPPER LUBRICATION LEADS, FOR LUBRICATION OF INTERNAL MOTORS AND BEARINGS, EXTENDING TO A CAPPED TERMINATION POINT EXTERNAL TO THE FAN CASING OR AIR HANDLING UNIT.
 5. EXTEND WIRE LEADS ON FANS DRIVEN BY DIRECT MOTOR DRIVE FROM THE MOTOR JUNCTION BOX IN AIR TIGHT RIGID WALLED CONDUIT, TO A JUNCTION BOX MOUNTED EXTERNAL TO THE FAN CASING.
 6. ON FANS DRIVEN BY BELT DRIVE PROVIDE STANDARD "V-GROOVE" TYPE BELTS AND SHEAVES SUITABLE FOR THE SERVICE INTENDED. FAN SHEAVES ARE NON-ADJUSTABLE TYPE WITH REMOVABLE MACHINED BUSHINGS. PROVIDE ADJUSTABLE PITCH TYPE WITH REMOVABLE MACHINED BUSHINGS. PROVIDE ADJUSTABLE PITCH TYPE MOTOR SHEAVES WITH DOUBLE LOCKING FEATURE, TO 10% ABOVE AND BELOW THE RATED FAN SPEED. DYNAMICALLY BALANCE SHEAVES WITH OVER THREE GROOVES. PROVIDE AT LEAST TWO BELTS AND SHEAVES EACH CAPABLE OF CARRYING THE ENTIRE LOAD WITH ONE BELT BROKEN.
 7. PROVIDE PERFORMED EXPANDED METAL OR SHEET METAL BELT GUARDS, WITH GROMMETED TACHOMETER PORTS AT THE FAN AND MOTOR SHAFTS, FOR ALL EXPOSED SHEAVES AND BELTS. BELT GUARD SHALL COMPLY WITH OSHA REQUIREMENTS AND BE EASILY REMOVABLE.
 8. CONSTRUCT DUALSIMPPELLERS EXPOSED TO NORMAL ATMOSPHERES OF CAST ALUMINUM OR HOT DIP GALVANIZED STEEL AND FINISHED WITH TWO LAYERS OF FACTORY APPLIED NON-SCALING PAINT.
 9. ELECTRICALLY GROUND ALL FANS AND DRIVES TO PREVENT ACCUMULATION OF STATIC CHARGE. INDICATE GROUNDING METHOD IN FAN SUBMITTALS.
 10. PROVIDED THREADED DRAIN PLUGS AT FAN HOUSING LOW POINTS.
 11. FAN WHEELS/IMPELLERS AND HOUSINGS SHALL BE RELIEVED OF RESIDUAL STRESSES PRODUCED IN THE FORMING PROCESS.
 12. PROVIDE HOUSINGS WITH INTEGRAL INLET AND DISCHARGE FLANGES, COMPLETE WITH BOLT HOLES FOR FLEXIBLE OR HARD DUCT CONNECTIONS. SHOP FABRICATE ANY COMPANION FLANGES REQUIRED FOR CONNECTIONS TO SOUND ATTENUATORS. COMPANION FLANGES SHALL BE ROLLED ANGLES MATCHED TO BOTH FAN HOUSING AND SOUND ATTENUATORS.
- C. CENTRIFUGAL FANS:
1. PROVIDE BACKWARD INCLINED (BI), BACKWARD CURVED (BC), AIRFOIL (AF), FORWARD CURVED (FC) FAN WHEELS, AND SINGLE WIDTH SINGLE INLET (SWSI), OR DOUBLE WIDTH DOUBLE INLET (DWDI), AS SPECIFIED OR INDICATED ON THE DRAWINGS, ENCLOSED IN A SCROLL SHAPED FAN HOUSING.
 2. WELD OR SECURELY RIVET FAN BLADES TO THE HUB PLATE AND RIM.
 3. FAN HOUSINGS ARE TO BE HEAVY GAUGE CONSTRUCTION, CONTINUOUSLY WELDED INSIDE AND OUTSIDE. HOUSINGS SHALL BE SUITABLY BRACED TO PREVENT VIBRATION OR PULSATION. FAN HOUSINGS SHALL HAVE SPUN, AERODYNAMICALLY DESIGNED SPUN INLET CONES OR INLET VENTURIS FOR SMOOTH AIR ENTRY INTO THE WHEELS. ALL FAN WHEELS SHALL HAVE TAPERED SPUN WHEEL CONES OR SHROUDS PROVIDING STABLE FLOW AND HIGH RIGIDITY. HOUSING WITH LOCK SEAM CONSTRUCTION OR PARTIAL WELD SHALL NOT BE ACCEPTABLE UNLESS FOR SMALLER FAN SIZES (12 INCH WHEEL DIAMETERS OR LESS) WHERE IT IS STANDARD CONSTRUCTION FOR MODELS LISTED ON DRAWINGS.

D. CABINET FANS:

1. PROVIDE SCROLL TYPE CENTRIFUGAL FANS, FACTORY INSTALLED WITHIN A CABINET ENCLOSURE, AND COMPLY WITH THE REQUIREMENTS OF SCROLL TYPE CENTRIFUGAL FANS.
2. INTERNALLY ISOLATE FAN AND MOTOR ASSEMBLIES FROM THE CABINET.
3. PROVIDE GASKETED ACCESS DOORS AND PANELS FOR INSPECTION AND ROUTINE MAINTENANCE OF THE INTERNAL COMPONENTS.
4. PROVIDE SOLID STATE VARIABLE SPEED CONTROLLERS FOR SMALL CEILING MOUNTED DRIVEN EXHAUST AND TRANSFER FANS.

E. HOUSINGS:

1. HOUSINGS SHALL BE HEAVY GAUGE ALUMINUM WITH RIGID INTERNAL SUPPORT STRUCTURE.
2. DRIVE FRAME ASSEMBLY SHALL BE OF HEAVY GAUGE STEEL AND MOUNTED ON VIBRATION ISOLATORS.

F. MOTORS:

1. MOTOR SHALL BE OPEN DRIPPROOF, AC INDUCTION MOTOR WITH DISCONNECT SWITCH.
2. MOTOR SHALL BE ELECTRONICALLY COMMUTATED TYPE (ECM) WITH MANUAL, DIAL TYPE POTENTIOMETER MOUNTED AT THE MOTOR TO CONTROL FAN MOTOR SPEED.
3. PROVIDE DISCONNECT SWITCH FOR POSITIVE SHUTOFF.

3.37 00 - AIR OUTLETS AND INLETS

A. ACCEPTABLE MANUFACTURERS:

1. AIR INLETS AND OUTLETS: TITUS, KRUEGER, E.H. PRICE, AIR FACTORS, AIR CONCEPTS.
2. ACCESSORIES: DAMPERS, EQUALIZING GRIDS, TURNING VANES, EXTRACTORS, PLENUMS, HARDWARE AND FRAMES SHALL BE PROVIDED BY THE SAME MANUFACTURERS AS THE AIR INLETS AND AIR OUTLETS PROVIDED.

B. GENERAL:

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REFLECTED CEILING PLANS, ELEVATIONS, WALL AND CEILING TYPES AND CONSTRUCTION. AIR OUTLETS AND INLETS IN FIRE RATED CEILING OR WALLS MUST BE ALL STEEL CONSTRUCTION. COORDINATE FRAME AND BORDER TYPES TO ACCOMMODATE THE WALL OR CEILING SPECIFIED OR SHOWN ON THE ARCHITECTURAL DRAWINGS.
2. ALL DAMPERS PROVIDED SHALL BE OPERABLE FROM THE FACE OF THE AIR INLET OR AIR OUTLET.
3. OUTLET TYPES:
 - a. SQUARE CEILING DIFFUSER, PLAQUE FACE:
 - (1) PROVIDE ARCHITECTURAL SQUARE PANEL CEILING DIFFUSERS, ALL-STEEL CONSTRUCTION WITH AG-75 OPPOSED BLADE VOLUME DAMPER.
 - (2) DIFFUSER SHALL HAVE AN 22-GAUGE STEEL FACE PANEL THAT CAPTURES A SECONDARY 22-GAUGE PANEL. THE FACE PANEL SHALL BE REMOVABLE BY MEANS OF FOUR HANGER BRACKETS. THE EXPOSED SURFACE OF THE FACE PANEL SHALL BE SMOOTH, FLAT, AND FREE OF VISIBLE FASTENERS.
 - (3) THE BACKPAN SHALL BE ONE PIECE PRECISION DIE-STAMPED AND SHALL INCLUDE AN INTEGRALLY DRAWN INLET. THE DIFFUSER BACKPAN SHALL BE CONSTRUCTED OF 22-GAUGE STEEL.
 - (4) SIZES INDICATED ON THE DRAWINGS ARE NECK SIZES.
 - (5) BAKED WHITE ENAMEL FINISH.
 - (6) TYPE CD-A: 12-INCH BY 12-INCH FACE SIZE. TITUS MODEL OMNI OR APPROVED EQUAL.

b. DOUBLE DEFLECTION SUPPLY REGISTER:

- (1) ALL ALUMINUM REGISTER WITH REAR VERTICAL AND FRONT HORIZONTAL ADJUSTABLE AIR FOIL TYPE BLADES.
- (2) PROVIDE MODEL AG-35-AA ALUMINUM OPPOSED BLADE VOLUME CONTROL DAMPER, MODEL AG-45 EXTRACTOR, AND TYPE PF MOUNTING FRAME.
- (3) FRAMES SHALL BE 1.25 INCHES WIDE BY 0.05 INCH THICK ALUMINUM, INTERLOCKED AT THE CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME WITH FLUSH JOINTS AND COUNTERSINK SCREW HOLES.
- (4) ALUMINUM BLADES SHALL BE SPACED ON 0.75 INCH CENTERS AND EXTEND COMPLETELY THROUGH THE SIDE FRAME ON EACH SIDE. BLADES SHALL BE INDIVIDUALLY ADJUSTABLE WITHOUT LOOSENING OR RATTLING AND SHALL BE SECURELY HELD IN PLACE WITH PERMANENTLY SPRING TENSIONED WIRE.
- (5) BAKED WHITE ENAMEL FINISH.
- (6) TYPE SG-A: TITUS MODEL 300RL OR APPROVED EQUAL. TYPE SG-B: TITUS MODEL 300RL OR APPROVED EQUAL.

c. COMBINATION PLENUM AND LINEAR SLOT:

- (1) CONTINUOUS LINEAR SLOT DIFFUSERS SHALL FULLY INTEGRATE WITH THE CEILING SYSTEM AND BE CONSTRUCTED OF 1/16 INCH MINIMUM EXTRUDED ALUMINUM WITH CONTINUOUS BAR VOLUME AND DEFLECTION CONTROL DAMPER FOR EACH SLOT. PROVIDE CONTINUOUS 26 GAUGE STEEL PLENUMS WITH 1/2 INCH ACOUSTICAL LINING SIZED AS PER MANUFACTURER'S RECOMMENDATION ABOVE DIFFUSERS WITH SUPPLY AIR CONNECTIONS AS INDICATED ON DRAWINGS.
- (2) THE SLOT DIFFUSERS SHALL HAVE PATTERN CONTROLLERS SUPPORTED WITH SPACER CHANNELS IN 48 INCH (NOMINAL) INCREMENTS THE ENTIRE LENGTH OF THE SLOT. THE PATTERN CONTROLLERS SHALL ALLOW INFINITE ADJUSTMENTS TO THE AIR STREAM AT 24 INCH INTERVALS RELATIVE TO THE DIRECTION OF THE AIR STREAM AS WELL AS EXTENDING OR REDUCING THE AIR THROW AS MAY BE REQUIRED TO SATISFY JOB CONDITIONS AND TO PROVIDE DRAFT-FREE AIR DISTRIBUTION. THE SLOT DIFFUSER SHALL MAINTAIN AIR FLOW ACROSS THE CEILING AND SHALL NOT 'DUMP' EVEN WHEN AIRFLOW IS REDUCED TO 10% OF DESIGN AIR QUANTITIES. FIXED OR BLADE TYPE PATTERN CONTROLLERS ARE NOT ACCEPTABLE.
- (3) TYPE LD-A: TITUS MODEL FL-20 OR APPROVED EQUAL. TYPE LD-B: TITUS MODEL FL-15 OR APPROVED EQUAL.

c. OVAL DUCT MOUNTED DOUBLE DEFLECTION SUPPLY REGISTER:

- (1) PROVIDE STEEL BORDER REGISTER WITH REAR VERTICAL AND FRONT HORIZONTAL ADJUSTABLE AIR FOIL TYPE SOLID ALUMINUM BLADES.
- (2) PROVIDE FACTORY ADJUSTABLE AIR-SCOPP DAMPER EXTRACTOR.
- (3) FRAMES SHALL BE 1.25 INCHES WIDE, 20 GAUGE STEEL WITH FULL PENETRATION RESISTANCE WELDS AND A STEEL REINFORCEMENT GASKET AT EACH CORNER. GRIND WELDS SMOOTH AND COUNTERSINK ALL SCREW HOLES.
- (4) ALUMINUM BLADES SHALL BE SPACED ON 0.75 INCH CENTERS AND EXTEND COMPLETELY THROUGH THE SIDE FRAME ON EACH SIDE. BLADES SHALL BE INDIVIDUALLY ADJUSTABLE WITHOUT LOOSENING OR RATTLING AND SHALL BE SECURELY HELD IN PLACE WITH PERMANENTLY SPRING TENSIONED WIRE.
- (5) BAKED WHITE ENAMEL FINISH.
- (6) TITUS MODEL S30FL OR APPROVED EQUAL.



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SG DESIGN MANAGER:
SG DM CHECKED BY:
SG CONSTR. MANAGER:
PROJECT NO. 24.20126.000
TEMPLATE VERSION: 2401

REVISIONS

REV.	DATE	DESCRIPTION
	04/21/2025	80% SUBMISSION
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2	08/01/2025	PERMIT AMENDMENT

MECHANICAL
SPECIFICATIONS
SHEET #4

DOB NOW JOB # M01217029-P1

M-005.00

4. INLET TYPES:

a. SQUARE CEILING DIFFUSER, LOUVER FACE:

- (1) PROVIDE LOUVER FACE SUPPLY DIFFUSERS, ALL-STEEL CONSTRUCTION WITH AG-95 STEEL OPPOSED BLADE VOLUME CONTROL DAMPER AND ADJUSTABLE DISCHARGE PATTERN CONTROL VANES.
- (2) DIFFUSER SHALL CONSIST OF AN OUTER FRAME ASSEMBLY WITH A SQUARE, RECTANGULAR OR ROUND INLET (USING A TRANSITION DUCT FITTING).
- (3) PROVIDE ADJUSTABLE SINGLE ADJUSTABLE PATTERN VANES FOR FULL VERTICAL AND HORIZONTAL PROJECTIONS.
- (4) SIZES INDICATED ON THE DRAWINGS ARE NECK SIZES.
- (5) AIR PATTERN AS INDICATED ON THE DRAWINGS.
- (6) BAKED WHITE ENAMEL FINISH.
- (7) TYPE RG-A: 12-INCH BY 12-INCH FACE SIZE. TITUS MODEL 350RL OR APPROVED EQUAL.
- (8) TYPE EG-A: 12-INCH BY 12-INCH FACE SIZE. TITUS MODEL 350FL OR APPROVED EQUAL.

b. SINGLE DEFLECTION RETURN REGISTER:

- (1) ALL ALUMINUM REGISTER WITH FRONT HORIZONTAL ADJUSTABLE AIR FOIL TYPE BLADES.
- (2) PROVIDE MODEL AG-35-AA ALUMINUM OPPOSED BLADE VOLUME CONTROL DAMPER, MODEL AG-45 EXTRACTOR, AND TYPE PF MOUNTING FRAME.
- (3) FRAMES SHALL BE 1.25 INCHES WIDE BY 0.05 INCH THICK ALUMINUM, INTERLOCKED AT THE CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME WITH FLUSH JOINTS AND COUNTERSINK SCREW HOLES.
- (4) ALUMINUM BLADES SHALL BE SPACED ON 0.75 INCH CENTERS AND EXTEND COMPLETELY THROUGH THE SIDE FRAME ON EACH SIDE. BLADES SHALL BE INDIVIDUALLY ADJUSTABLE WITHOUT LOOSENING OR RATTLING AND SHALL BE SECURELY HELD IN PLACE WITH PERMANENTLY SPRING TENSIONED WIRE.
- (5) BAKED WHITE ENAMEL FINISH.
- (6) TYPE RG-B: TITUS MODEL 350RL OR APPROVED EQUAL.

END OF SECTION



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**MECHANICAL
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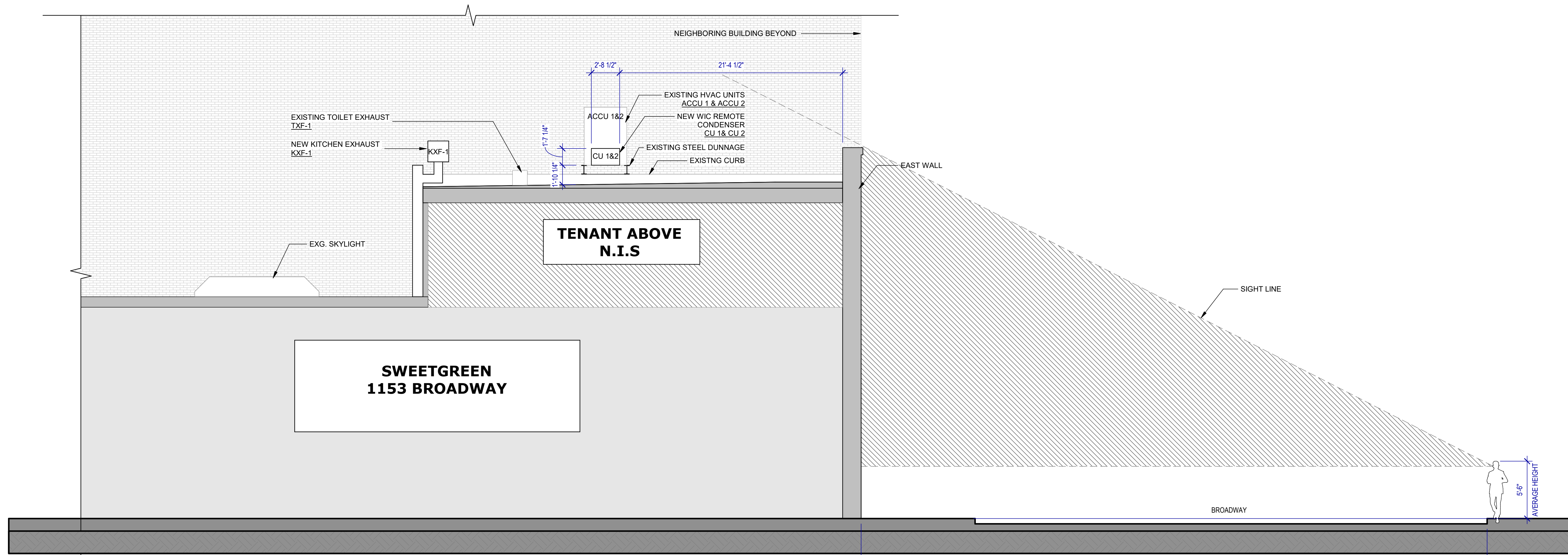
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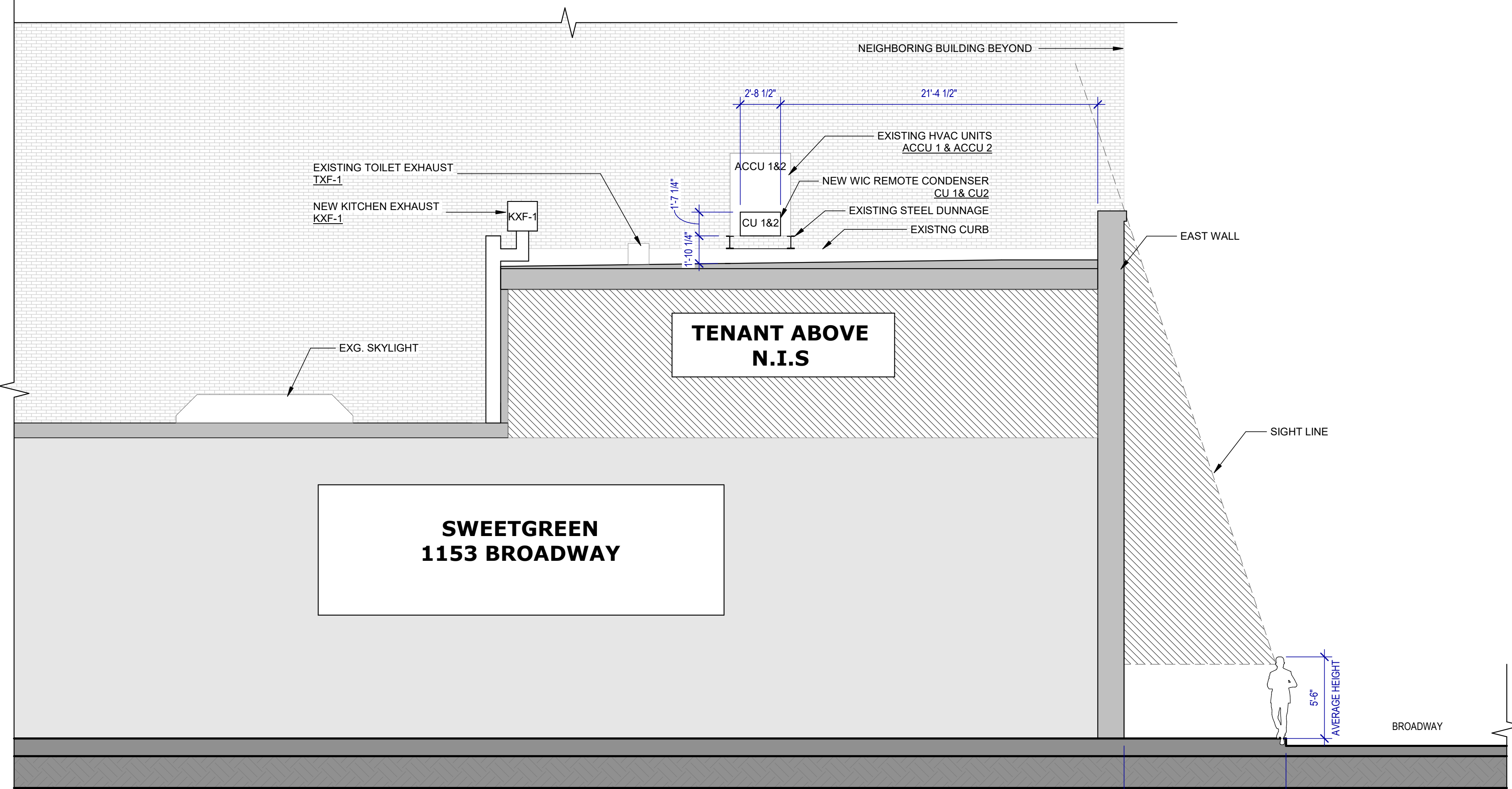
**MECHANICAL LINE
OF SITE STUDY
SHEET #1**

DOB NOW JOB # M01217029-P1

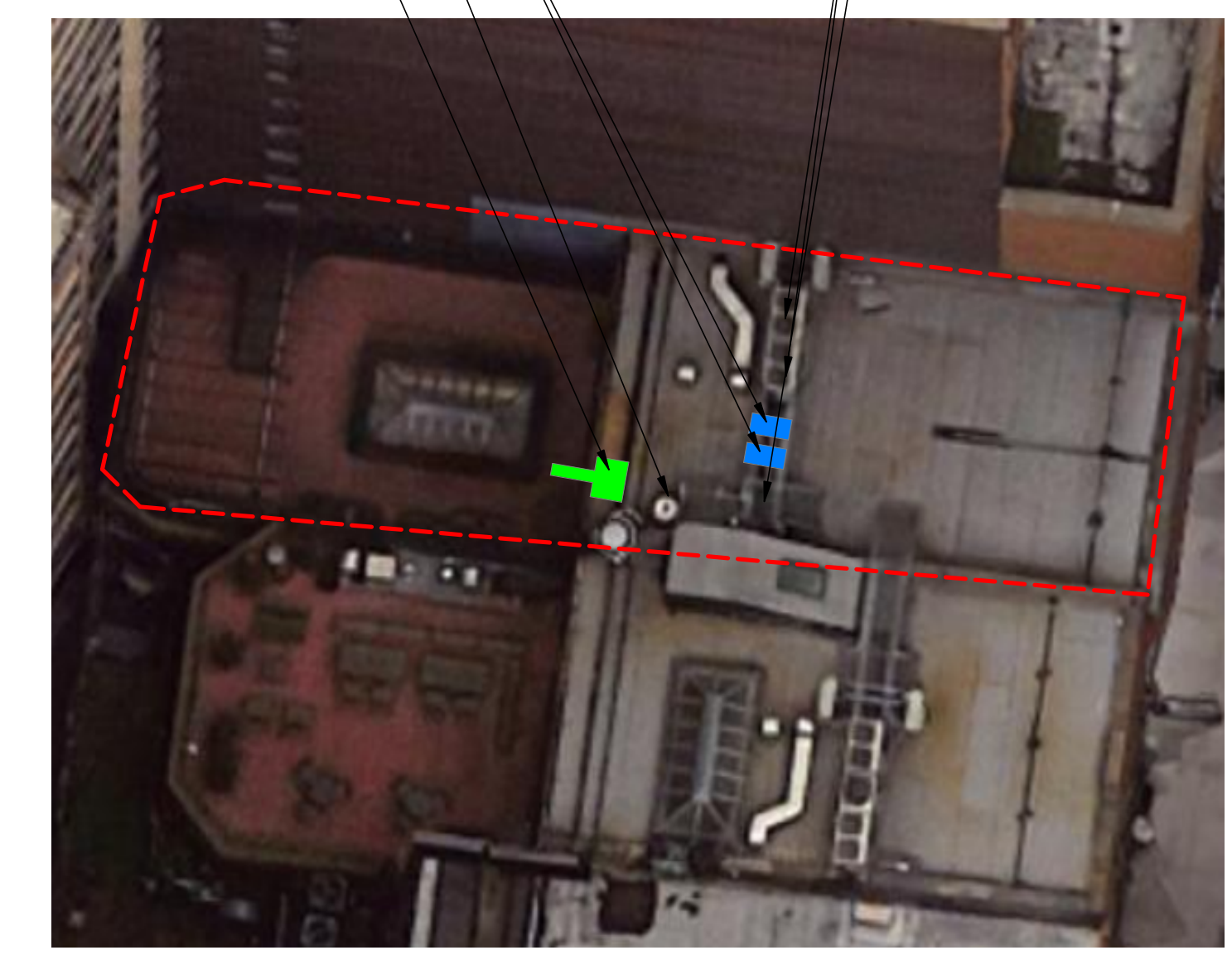
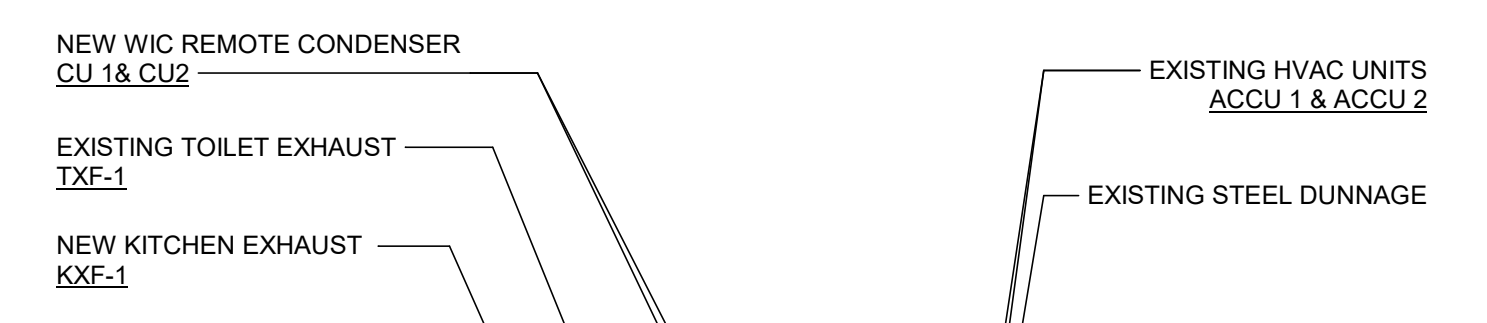
M-007.00



3 SIGHT VIEW STUDY FROM PUBLIC RIGHT OF WAY - BROADWAY EAST SIDEWALK
3/16" = 1'-0"

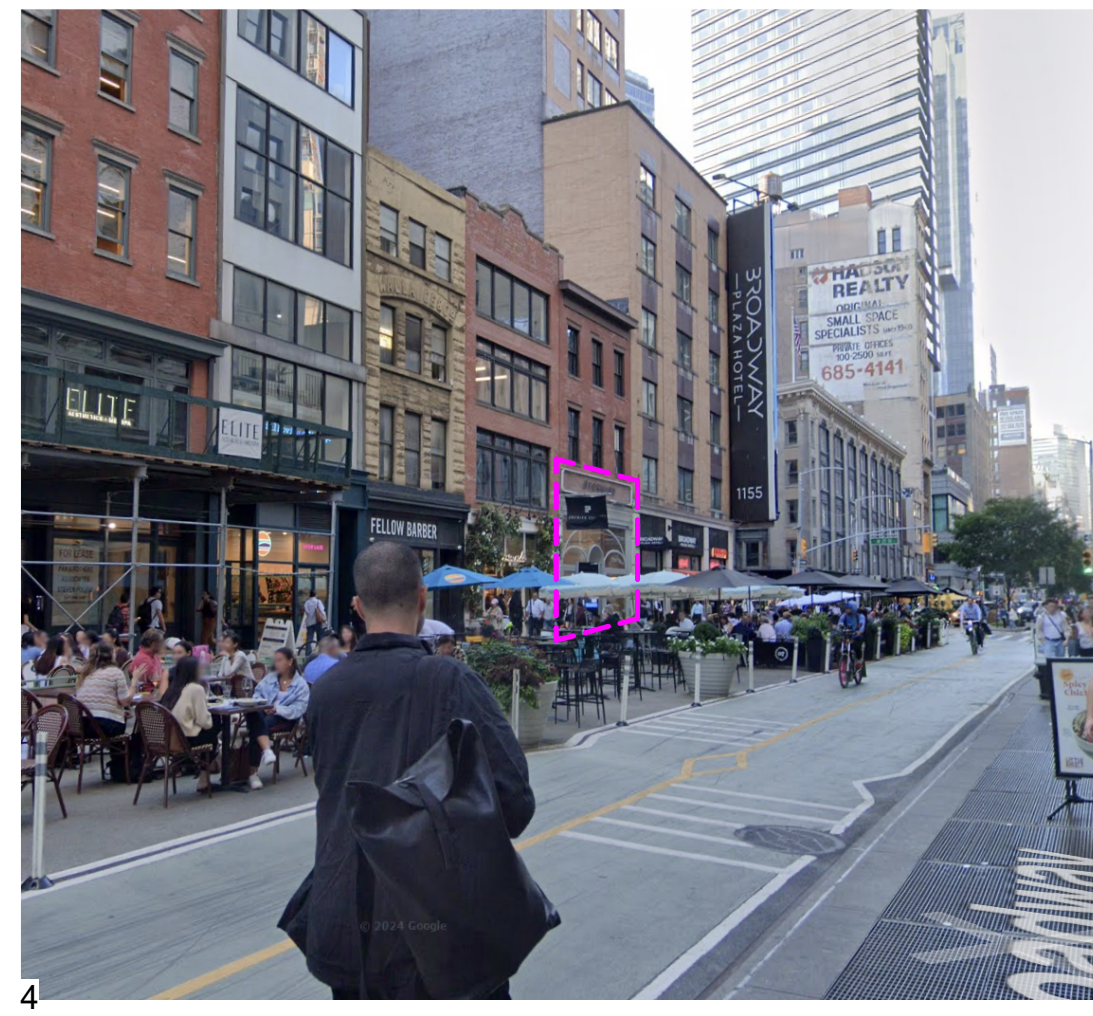
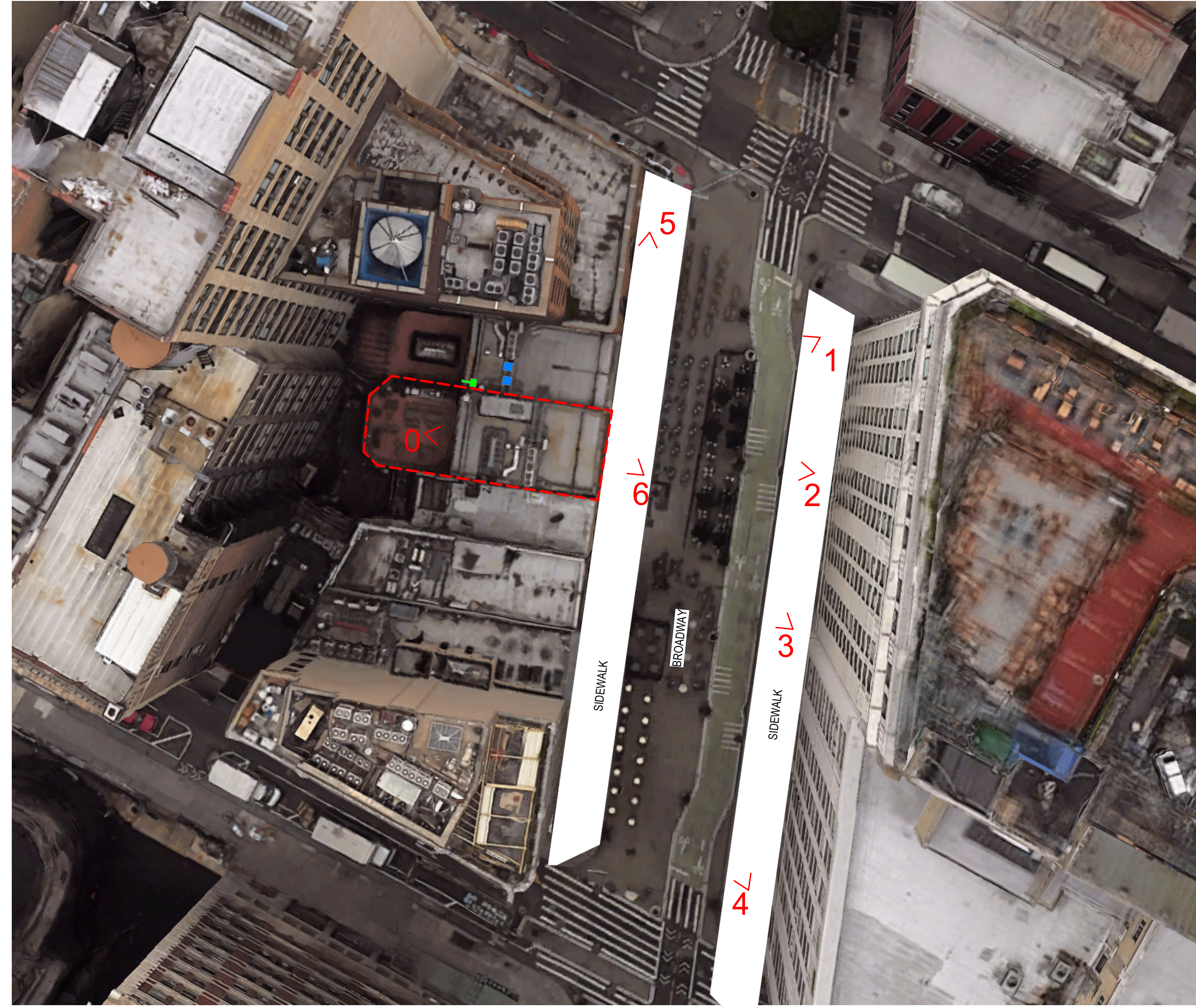


2 SIGHT VIEW STUDY FROM PUBLIC RIGHT OF WAY - BROADWAY WEST SIDEWALK
3/16" = 1'-0"

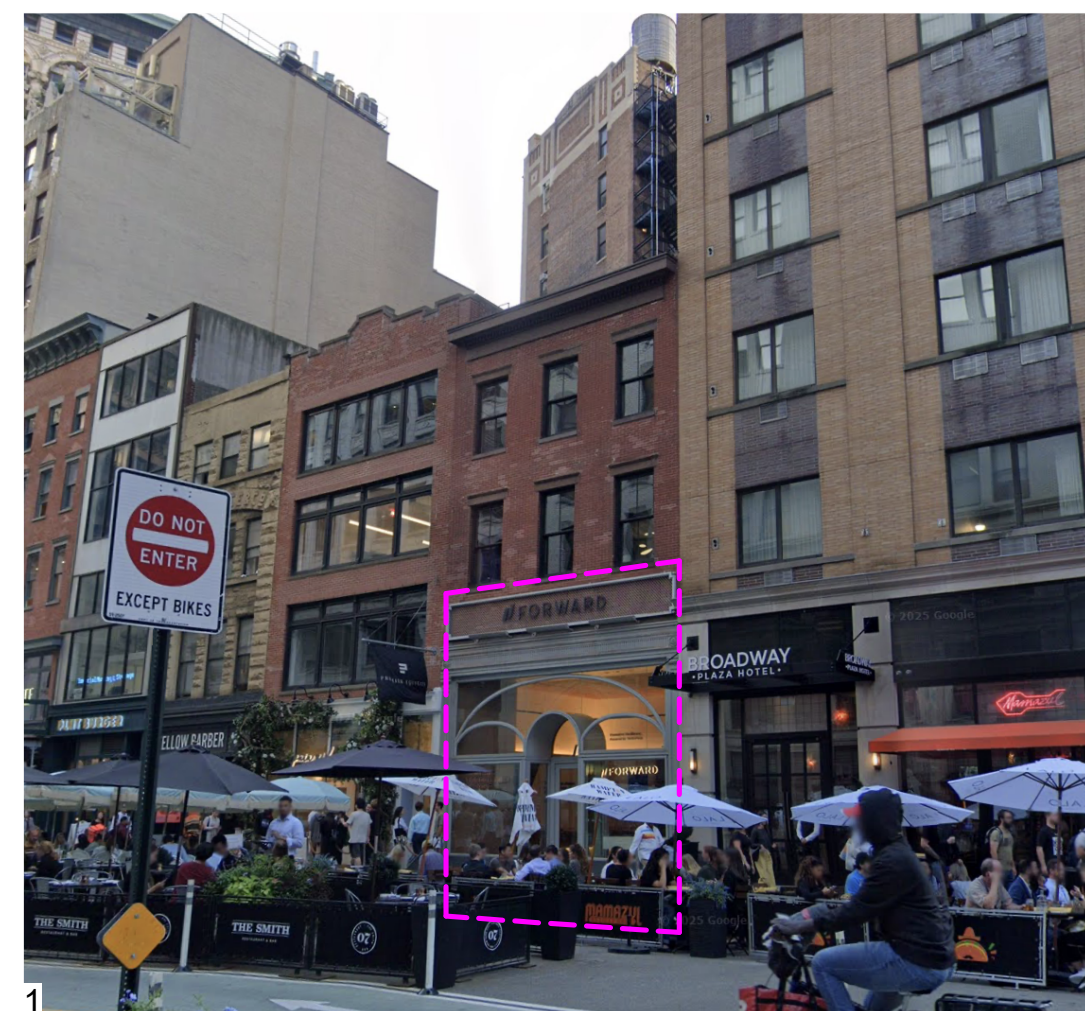
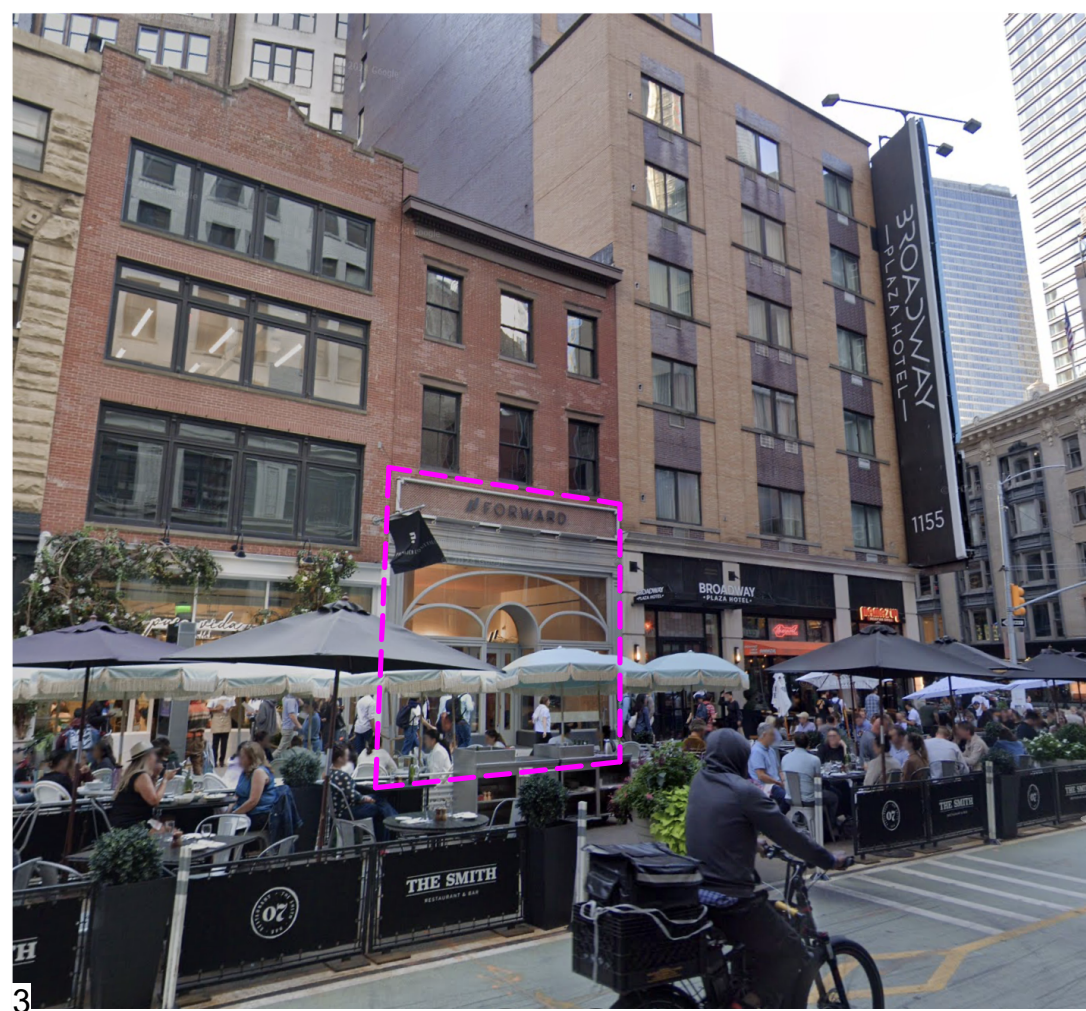


1 ROOF KEY PLAN
NTS

6/16/2025 1:37:59 PM



1 KEY PLAN
NTS



NEW KITCHEN EXHAUST (KXF-1) DUCT
RUN BEHIND THE HIGH ROOF

sg

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MECHANICAL LINE
OF SITE STUDY
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DOB NOW JOB # M01217029-P1

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**MECHANICAL FEMA
MAP SHEET #1**

DOB NOW JOB # M01217029-P1

M-009.00

NOTES TO USERS

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To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.7' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was New York State Plane FIPSZONE 1104. The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NCAA, NIMS312
National Geodetic Survey
55MCC, #9022
1315 East-West Highway
Silver Spring, Maryland 20910-3182
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Department of Information Technology and Telecommunication, City of New York. This information was derived from digital orthophotos produced at a scale of 1:200 with 2-foot pixel resolution from photography dated 2004.

Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report which contains authoritative hydraulic data may reflect stream channel distances that differ from what is shown on this map. Also, the reach-to-floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map showing the layout of map panels for this jurisdiction.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by fax at 1-800-358-9629 and its website at <http://www.fema.gov>.

If you have **questions** about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

SITE LOCATION



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AR, AV, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of elevated sea flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently described. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE AV Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodable areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain.

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary defining Special Flood Hazard Area zones and boundaries, dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet

513 (EL 513)

Base Flood Elevation value where uniform within zone; elevation in feet

* Referenced to the National Geodetic Vertical Datum of 1929

○ Cross section line

○ Traversed line

87°07'45", 32°22'30"

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Mean Sea Level

100-meter Universal Transverse Mercator grid values, zone 18

600000 FT

500-foot grid ticks; New York State Plane coordinate system, Long Island zone (FIPSZONE 3104), Lambert Conformal Conic projection

Bench mark (see explanation in Notes to Users section of this FIRM panel)

M 1.5 River Mile

MAP REPOSITORY:
Refer to Notes to Map Repository on Map Index

INITIAL MAP DATE: June 28, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS: June 11, 1975

FLOOD INSURANCE RATE MAP EFFECTIVE: November 16, 1993

FLOOD INSURANCE RATE MAP REVISIONS: September 5, 2007 - to correct Special Flood Hazard Areas, to reflect updated topographic information, and to update map format

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6622.

MAP SCALE 1" = 500'
250 500 1000
0 150 300
FEET METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0201F

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
NEW YORK,
NEW YORK
BRONX, RICHMOND, NEW YORK,
QUEENS, AND KINGS COUNTIES

PANEL 201 OF 457
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY NUMBER PANEL SUPER
NEW YORK, CITY OF 360487 0201 F

Notice to User: The Map Number shown below should be used when displaying map sheets. The Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
3604870201F

MAP REVISED
SEPTEMBER 5, 2007
Federal Emergency Management Agency



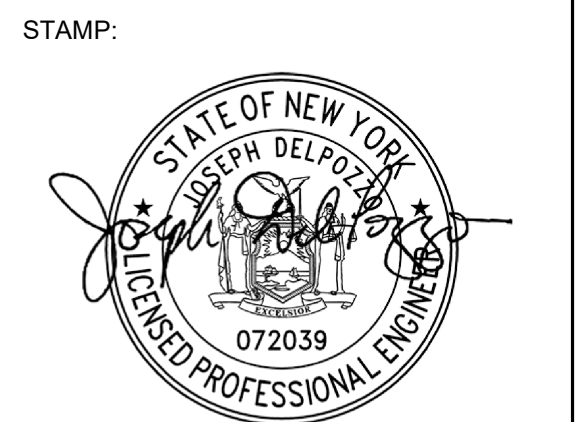
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**MECHANICAL FEMA
MAP SHEET #2**

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Coastal Base Flood Elevations shown on this map apply only to landward of 0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

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NGS Information Services
NOAA, NNGS12
National Geodetic Survey
S/MC3, #6202
1215 East-West Highway
Silver Spring, Maryland 20910-3182
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Department of Information Technology and Telecommunication, City of New York (DoITT). This information was derived from digital orthorectified products at a scale of 1:1,200 with 2-foot pixel resolution from photography dated April 2005.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contain authoritative hydraulic data) may reflect stream channel features that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or disannexations may have occurred after the map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program data for each community as well as a listing of the panels on which each community is located.

The AE Zone category has been divided by a Limit of Moderate Wave Action (LMWA). The LMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LMWA (or between the shoreline and the LMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at <http://maps.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of the map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-Map (1-877-366-6277) or visit the FEMA website at <http://www.fema.gov/business/info>.

SITE LOCATION



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood) is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AV, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of abutted fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently abandoned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under contract; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood areas of 1% annual chance flood with average depths of less than 1 foot or with depths of less than 1 square foot protected by levees from 1% annual chance flood.

OTHER AREAS Areas determined to be outside the 0.2% annual chance floodplains. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS AND OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance flood boundary

0.2% annual chance flood boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.

Limit of Moderate Wave Action

Base Flood Elevation line and value; elevation in feet

Base Flood Elevation note where uniform within zone; elevation in feet

* Referenced to the North American Vertical Datum of 1988

Cross section line

Traverse line

Gulch, Flume, Penstock or Aqueduct

Road or Railroad Bridge

Footbridge

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

Bench mark (see explanation in Notes to Users section of this FIRM panel)

1000-meter Universal Transverse Mercator grid values, zone 18

5000-foot grid values: New York State Plane coordinate system, Long Island zone (IPROZONE 2104), Lambert Conformal conic projection

Base map (see explanation in Notes to Users section of this FIRM panel)

River Mile

MAP REPOSITORY

Refer to Index of Map Repositories on Map Index

INITIAL MAP DATE

June 26, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS

June 11, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE

November 19, 1989

FLOOD INSURANCE RATE MAP REVISIONS

For descriptions of revisions see Notice to Users page in the Flood Insurance Study report.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-438-6465.

MAP SCALE 1" = 500'

250 0 500 1000 METERS

NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
CITY OF, NEW YORK
BROOKLYN, RICHMOND, NEW YORK, QUEENS, AND KINGS COUNTIES
PANEL 201 OF 457
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SHEETS
NEW YORK, CITY OF 36049 0201 0
PRELIMINARY
DECEMBER 5, 2013
Notice to Users: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.
MAP NUMBER
3604970201G
MAP REVISED
Federal Emergency Management Agency



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LOS ANGELES, CALIFORNIA 90018

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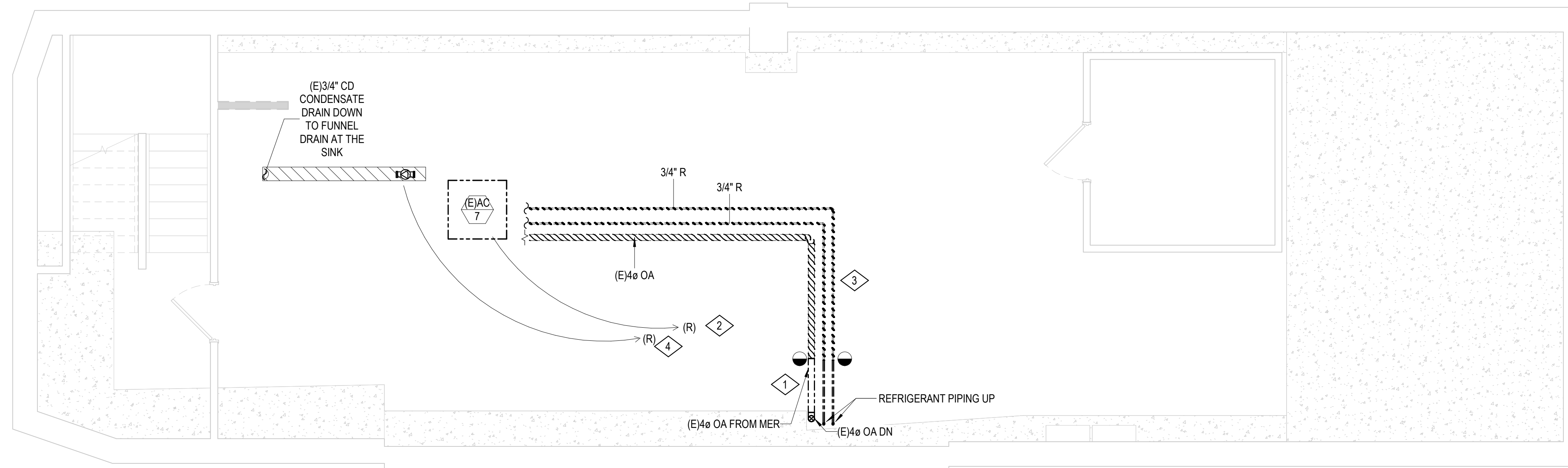
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**MECHANICAL
CELLAR
DEMOLITION PLAN**

DOB NOW JOB # M01217029-P1

M-110.00



1 CELLAR
1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1. DEMOLITION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER AND WITHOUT CREATING HAZARDS ON SITE.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF DEMOLITION. DRAWING IS DIAGRAMATIC ONLY.
3. CONTRACTOR TO PROVIDE TEMPORARY SPACE HEATING AS REQUIRED TO PREVENT FREEZING CONDITIONS.
4. COVER AND PROTECT ALL EXISTING TO REMAIN SYSTEMS, SERVICES, AND FURNISHINGS PRIOR TO THE START OF DEMOLITION.
5. ALL HANGERS, RODS, AND ANCHORS SHALL BE REMOVED UPON THE DEMOLITION OF DUCTWORK, PIPING, AND EQUIPMENT.
6. NO ABANDONED DUCTWORK, PIPING, OR EQUIPMENT SHALL BE LEFT IN PLACE.
7. COORDINATE DEMOLITION SCHEDULE WITH OWNERSHIP AND TOWN ORDINANCES PRIOR TO THE START OF DEMOLITION SCOPE.
8. ALL HAZARDOUS MATERIALS SHALL BE DISPOSED PER LOCAL AND FEDERAL REGULATIONS.

DEMOLITION KEY NOTES:

1. EXISTING 4" DIAMETER OUTSIDE AIR DUCT FROM FIRST FLOOR SHALL REMAIN AND BE RE-FED TO EXISTING AC-7 RELOCATION.
2. EXISTING AC-7 TO BE REUSED AND RELOCATED AS SHOWN ON M-120.00.
3. EXISTING REFRIGERANT PIPING TO BE DEMOLISHED BACK TO REFRIGERANT RISER AND RE-FED TO AC-7 RELOCATION.
4. EXISTING CONDENSATE PUMP TO BE RELOCATED AS SHOWN ON M-120.00.



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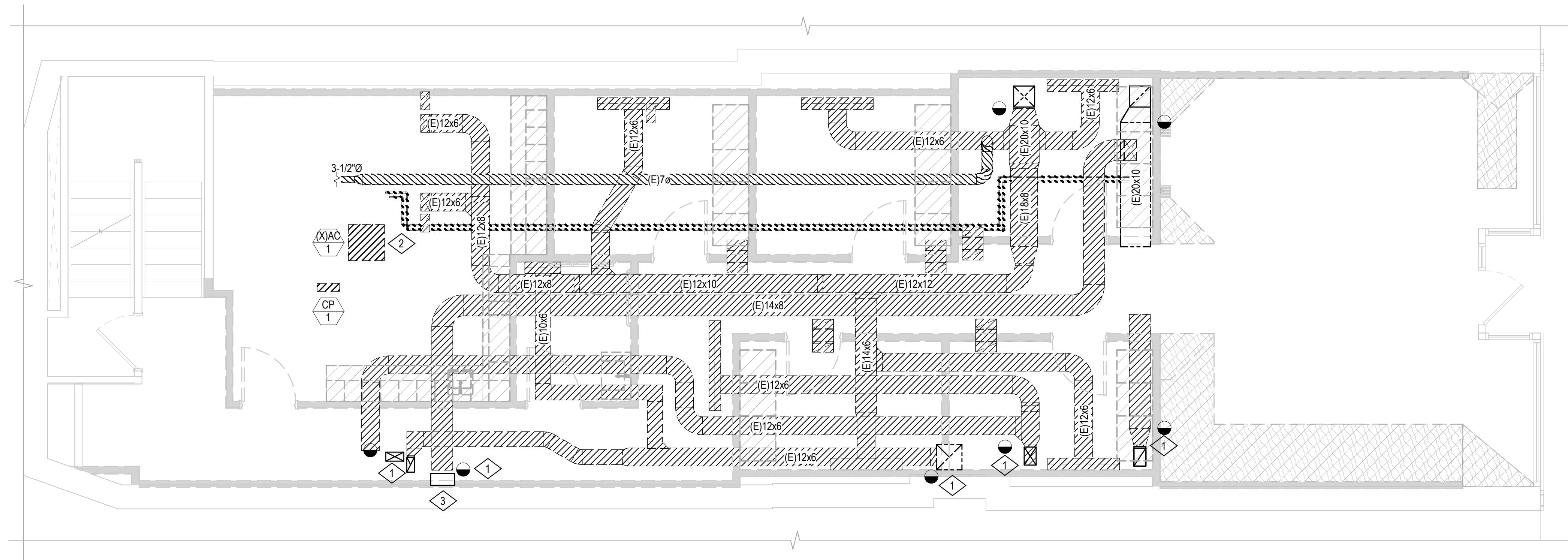
REVISIONS

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1	04/21/2025	80% SUBMISSION
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2	08/01/2025	PERMIT AMENDMENT

**MECHANICAL
DEMOLITION PLAN**

DOB NOW JOB # M01217029-P1

M-111.00



1 LEVEL 1
1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1. DEMOLITION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER AND WITHOUT CREATING HAZARDS ON SITE.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF DEMOLITION. DRAWING IS DAGRAMATIC ONLY.
3. CONTRACTOR TO PROVIDE TEMPORARY SPACE HEATING AS REQUIRED TO PREVENT FREEZING CONDITIONS.
4. COVER AND PROTECT ALL EXISTING TO REMAIN SYSTEMS, SERVICES, AND FURNISHINGS PRIOR TO THE START OF DEMOLITION.
5. ALL HANGERS, RODS, AND ANCHORS SHALL BE REMOVED UPON THE DEMOLITION OF DUCTWORK, PIPING, AND EQUIPMENT.
6. NO ABANDONED DUCTWORK, PIPING, OR EQUIPMENT SHALL BE LEFT IN PLACE.
7. COORDINATE DEMOLITION SCHEDULE WITH OWNERSHIP AND TOWN ORDINANCES PRIOR TO THE START OF DEMOLITION SCOPE.
8. ALL HAZARDOUS MATERIALS SHALL BE DISPOSED PER LOCAL AND FEDERAL REGULATIONS.
9. PROVIDE TEMPORARY CAP OR SEAL ON ALL DUCTWORK OPENINGS AFTER DEMOLITION UNTIL NEW WORK CONNECTIONS ARE COMPLETE.

DEMOLITION KEY NOTES:

1. EXISTING DUCTWORK SHALL BE DEMOLISHED BACK TO THIS RISER.
2. EXISTING AC-1 TO BE DEMOLISHED. EXISTING PIPING TO AC UNIT TO BE CUT BACK TO MECHANICAL EQUIPMENT ROOM ON SECOND FLOOR.
3. EXISTING OUTSIDE AIR RISER UP TO OUTDOOR SPACE ON LEVEL 3 SHALL REMAIN AND BE RE-USED. CONTRACTOR TO VERIFY PATHWAY.



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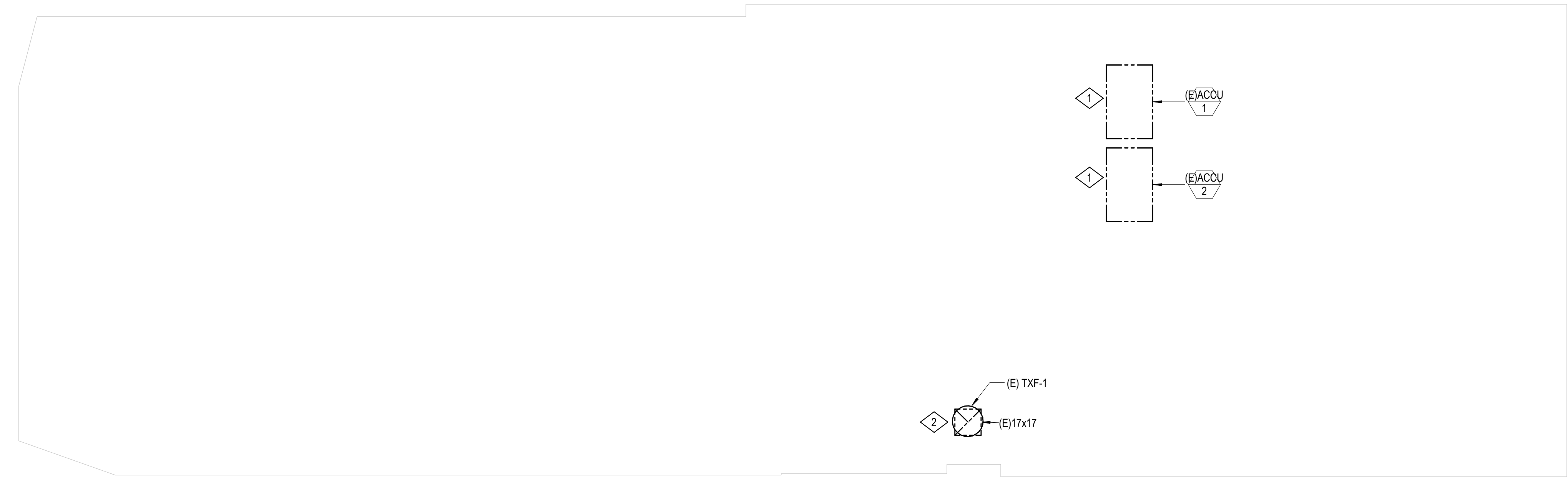
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**MECHANICAL ROOF
DEMOLITION PLAN**

DOB NOW JOB # M01217029-P1

M-113.00



1 ROOF DEMOLITION
1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1. DEMOLITION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER AND WITHOUT CREATING HAZARDS ON SITE.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF DEMOLITION. DRAWING IS DIAGRAMATIC ONLY.
3. CONTRACTOR TO PROVIDE TEMPORARY SPACE HEATING AS REQUIRED TO PREVENT FREEZING CONDITIONS.
4. COVER AND PROTECT ALL EXISTING TO REMAIN SYSTEMS, SERVICES, AND FURNISHINGS PRIOR TO THE START OF DEMOLITION.
5. ALL HANGERS, RODS, AND ANCHORS SHALL BE REMOVED UPON THE DEMOLITION OF DUCTWORK, PIPING, AND EQUIPMENT.
6. NO ABANDONED DUCTWORK, PIPING, OR EQUIPMENT SHALL BE LEFT IN PLACE.
7. COORDINATE DEMOLITION SCHEDULE WITH OWNERSHIP AND TOWN ORDINANCES PRIOR TO THE START OF DEMOLITION SCOPE.
8. ALL HAZARDOUS MATERIALS SHALL BE DISPOSED PER LOCAL AND FEDERAL REGULATIONS.

DEMOLITION KEY NOTES:

1. EXISTING ROOFTOP AIR-COOLED CONDENSERS ARE EXISTING TO REMAIN.
2. EXISTING TOILET EXHAUST FAN AND ASSOCIATED DUCTWORK IS EXISTING TO REMAIN.



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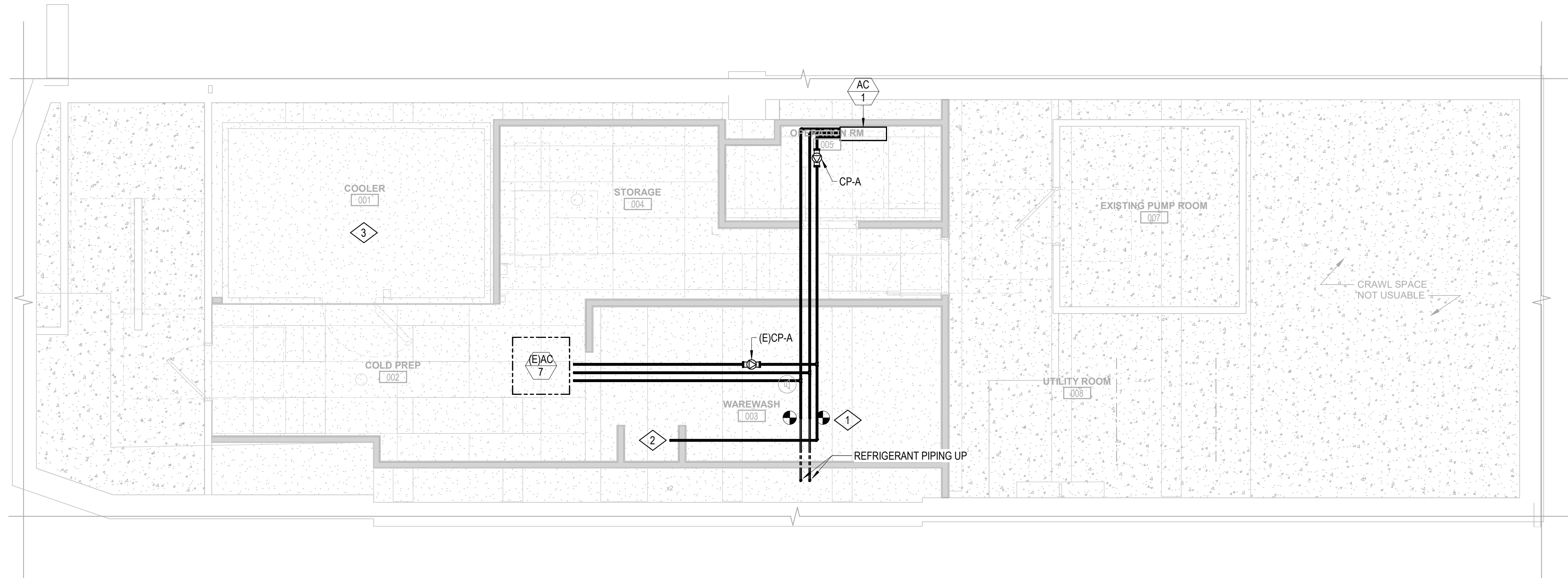
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	05/02/2025	ISSUE FOR PERMIT

**MECHANICAL
CELLAR PIPING
PLAN**

DOB NOW JOB # M01217029-P1

M-120.00



1 CELLAR
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. COORDINATE SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
2. COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
3. COORDINATE ALL SYSTEM SHUTDOWN AND DRAIN DOWN REQUIREMENTS WITH BUILDING PRIOR TO CONSTRUCTION.
4. REFER TO MECHANICAL SPECIFICATIONS FOR MATERIAL AND INSULATION REQUIREMENTS.
5. EQUIPMENT SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS AND ELEVATIONS. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IS FOR REFERENCE ONLY. COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
6. PROVIDE BACKFLOW CHECK VALVES ON CONDENSATE PIPING FOR EACH CONNECTION TO MAIN CONDENSATE PIPE.
7. REFER TO MECHANICAL DETAILS FOR ADDITIONAL PIPING SCOPE.
8. PERFORM ALL WATER TREATMENT AND SYSTEM FLUSHES AS REQUIRED BY THE BUILDING. REFER TO MECHANICAL SPECIFICATIONS.
9. PROVIDE BUILDING WITH COPY OF SYSTEM CLEANING AND BALANCING REPORT.
10. ALL COMMISSIONING SHALL BE COORDINATED WITH THE BUILDING PRIOR TO EXECUTION.
11. ALL CONDENSATE DRAIN PIPING SHALL BE PITCHED A MINIMUM OF 1/8" PER 1' FROM POINT OF CONNECTION TO TERMINATION LOCATION.
12. ALL PENETRATIONS ARE TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

MECHANICAL KEY NOTES:

1. CONTRACTOR TO VERIFY EXISTING PIPING DIMENSIONS AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL. PIPING TO BE EXTENDED TO SERVE NEW AC-1 AND E/AC-7.
2. CONDENSATE PIPING TO BE ROUTED TO MOP SINK OR DRAIN. ALL HORIZONTAL PIPING SHALL BE PITCHED A MINIMUM OF 1/8" PER 1' FROM POINT OF CONNECTION TO TERMINATION.
3. COORDINATE MOUNTING LOCATION FOR WALK IN COOLER CONDENSING UNIT, CU-1 ON EXTERIOR ROOF. KITCHEN EQUIPMENT SUPPLIER SHALL PROVIDE LINESET, SPECIALTIES AND MAKE ALL FINAL CONNECTIONS BETWEEN THE CONDENSING UNIT AND EVAPORATOR COIL.



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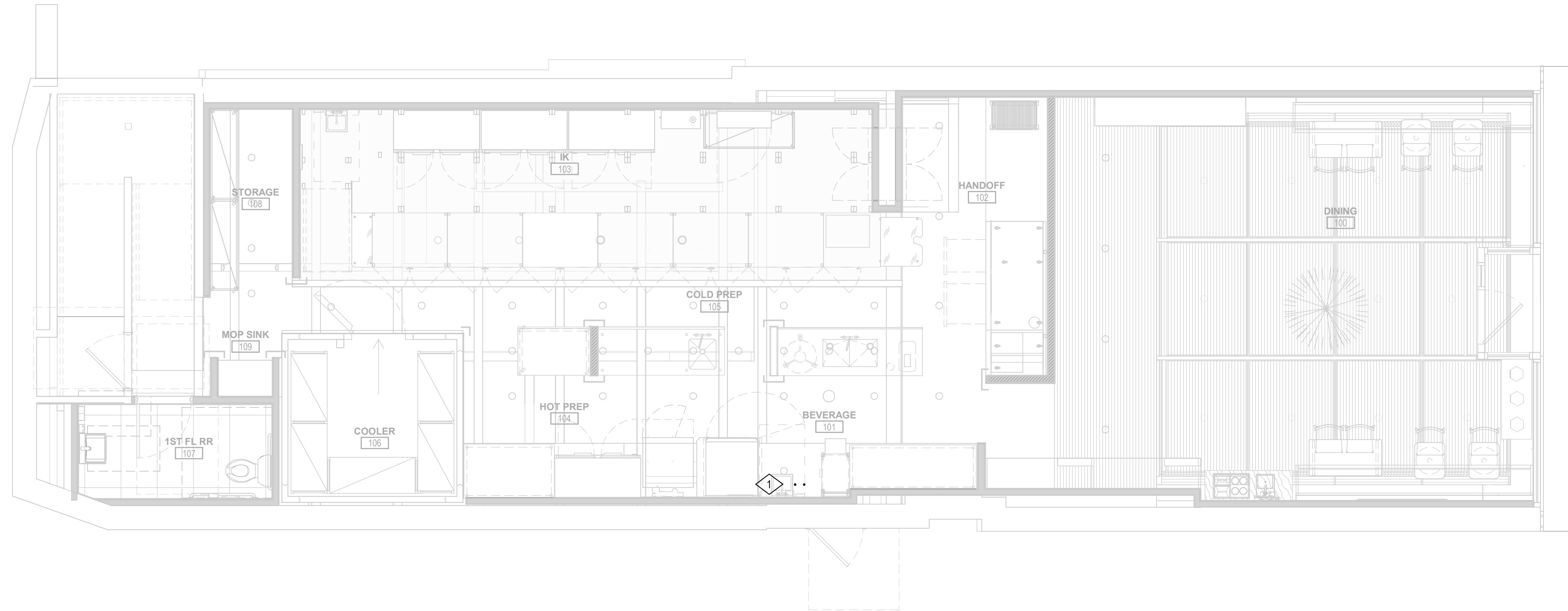
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REV.	DATE	DESCRIPTION
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	05/02/2025	ISSUE FOR PERMIT
2	06/16/2025	LL REVISIONS

MECHANICAL FIRST FLOOR PIPING PLAN

DOB NOW JOB #

M-121.00



1 LEVEL 01
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

- COORDINATE SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
- COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
- COORDINATE ALL SYSTEM SHUTDOWN AND DRAIN DOWN REQUIREMENTS WITH BUILDING PRIOR TO CONSTRUCTION.
- REFER TO MECHANICAL SPECIFICATIONS FOR MATERIAL AND INSULATION REQUIREMENTS.
- EQUIPMENT SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS AND ELEVATIONS. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IS FOR REFERENCE ONLY. COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
- PROVIDE BACKFLOW CHECK VALVES ON CONDENSATE PIPING FOR EACH CONNECTION TO MAIN CONDENSATE PIPE.
- REFER TO MECHANICAL DETAILS FOR ADDITIONAL PIPING SCOPE.
- PERFORM ALL WATER TREATMENT AND SYSTEM FLUSHES AS REQUIRED BY THE BUILDING. REFER TO MECHANICAL SPECIFICATIONS.
- PROVIDE BUILDING WITH COPY OF SYSTEM CLEANING AND BALANCING REPORT.
- ALL COMMISSIONING SHALL BE COORDINATED WITH THE BUILDING PRIOR TO EXECUTION.
- ALL CONDENSATE DRAIN PIPING SHALL BE PITCHED A MINIMUM OF 1/8" PER 1' FROM POINT OF CONNECTION TO TERMINATION LOCATION.
- ALL PENETRATIONS ARE TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

MECHANICAL KEY NOTES:

- EXISTING REFRIGERANT DOWN TO CELLAR SERVING EXISTING AC-7 AND NEW AC-1. CONTRACTOR TO VERIFY EXISTING PIPING DIMENSIONS AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR TO RELOCATE RISER WHEREAS TO NOT CONFLICT WITH NEW KITCHEN EQUIPMENT



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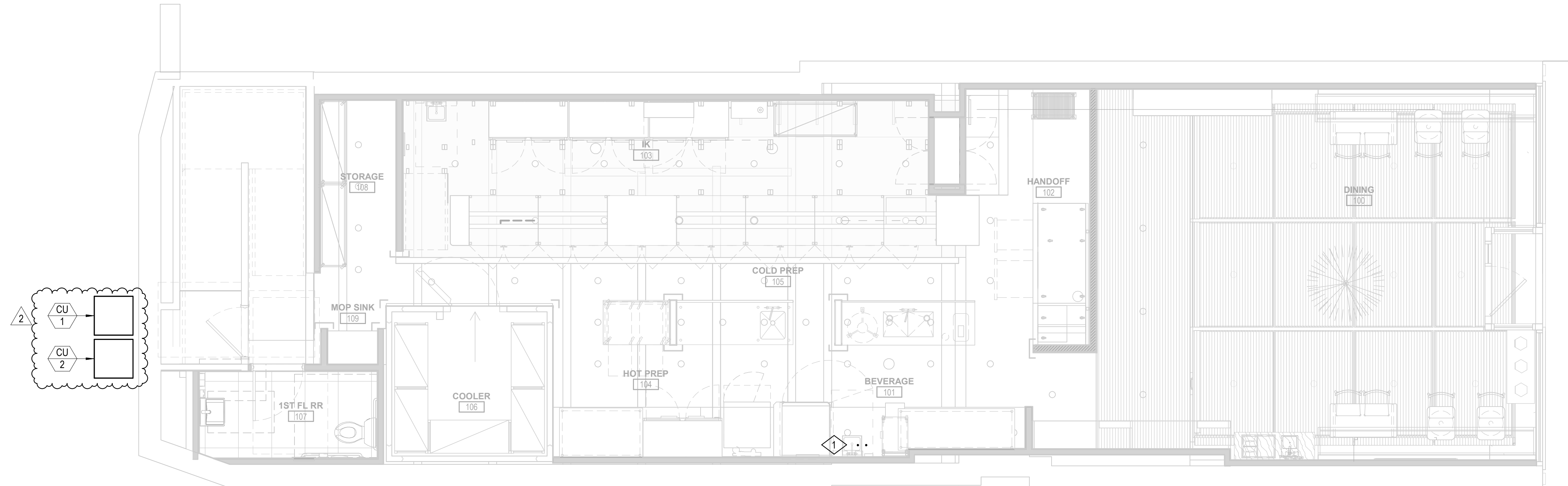
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MECHANICAL FIRST FLOOR PIPING PLAN

DOB NOW JOB # M01217029-P1

M-121.01



1 LEVEL 01
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. COORDINATE SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
2. COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
3. COORDINATE ALL SYSTEM SHUTDOWN AND DRAIN DOWN REQUIREMENTS WITH BUILDING PRIOR TO CONSTRUCTION.
4. REFER TO MECHANICAL SPECIFICATIONS FOR MATERIAL AND INSULATION REQUIREMENTS.
5. EQUIPMENT SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS AND ELEVATIONS. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IS FOR REFERENCE ONLY. COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
6. PROVIDE BACKFLOW CHECK VALVES ON CONDENSATE PIPING FOR EACH CONNECTION TO MAIN CONDENSATE PIPE.
7. REFER TO MECHANICAL DETAILS FOR ADDITIONAL PIPING SCOPE.
8. PERFORM ALL WATER TREATMENT AND SYSTEM FLUSHES AS REQUIRED BY THE BUILDING. REFER TO MECHANICAL SPECIFICATIONS.
9. PROVIDE BUILDING WITH COPY OF SYSTEM CLEANING AND BALANCING REPORT.
10. ALL COMMISSIONING SHALL BE COORDINATED WITH THE BUILDING PRIOR TO EXECUTION.
11. ALL CONDENSATE DRAIN PIPING SHALL BE PITCHED A MINIMUM OF 1/8" PER 1' FROM POINT OF CONNECTION TO TERMINATION LOCATION.
12. ALL PENETRATIONS ARE TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

MECHANICAL KEY NOTES:

1. EXISTING REFRIGERANT DOWN TO CELLAR SERVING EXISTING AC-7 AND NEW AC-1. CONTRACTOR TO VERIFY EXISTING PIPING DIMENSIONS AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR TO RELOCATE RISER WHEREAS TO NOT CONFLICT WITH NEW KITCHEN EQUIPMENT



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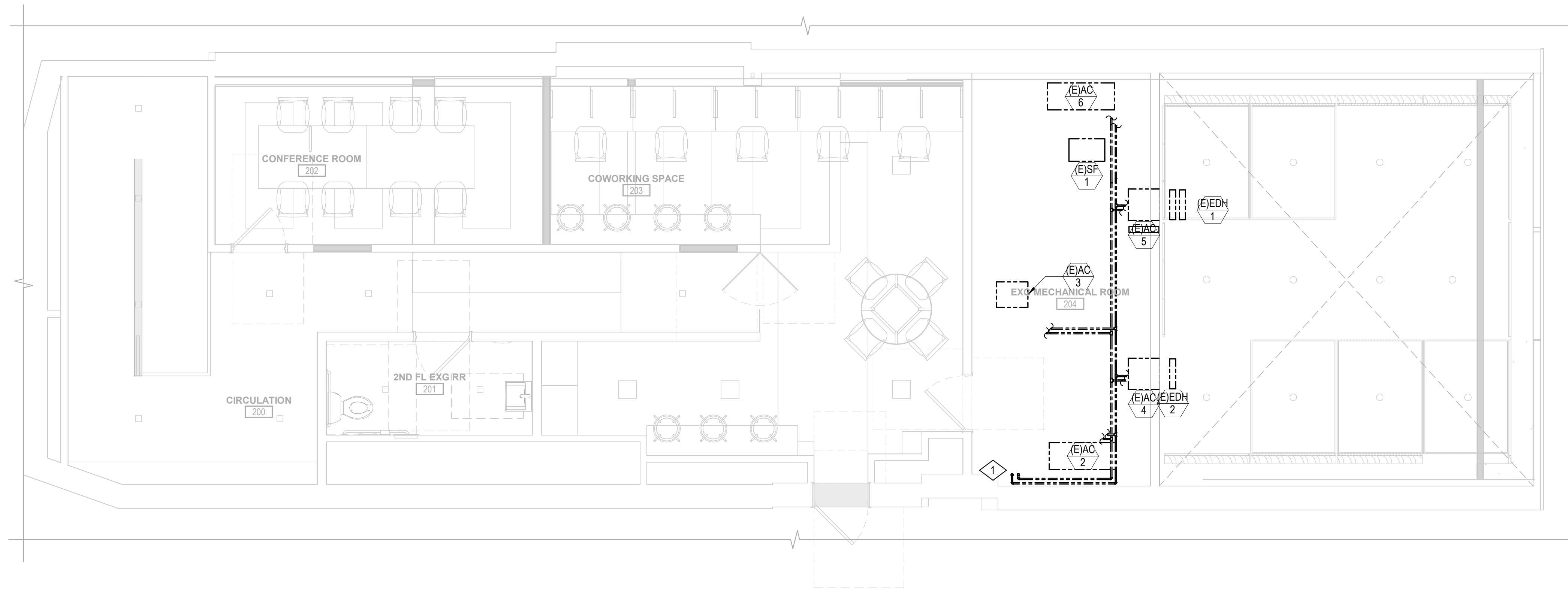
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	04/21/2025	80% SUBMISSION
	05/02/2025	ISSUE FOR PERMIT

**MECHANICAL
SECOND FLOOR
PIPING PLAN**

DOB NOW JOB # M01217029-P1

M-122.00



1 LEVEL 02
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

- COORDINATE SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
- COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
- COORDINATE ALL SYSTEM SHUTDOWN AND DRAIN DOWN REQUIREMENTS WITH BUILDING PRIOR TO CONSTRUCTION.
- REFER TO MECHANICAL SPECIFICATIONS FOR MATERIAL AND INSULATION REQUIREMENTS.
- EQUIPMENT SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS AND ELEVATIONS. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IS FOR REFERENCE ONLY. COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
- PROVIDE BACKFLOW CHECK VALVES ON CONDENSATE PIPING FOR EACH CONNECTION TO MAIN CONDENSATE PIPE.
- REFER TO MECHANICAL DETAILS FOR ADDITIONAL PIPING SCOPE.
- PERFORM ALL WATER TREATMENT AND SYSTEM FLUSHES AS REQUIRED BY THE BUILDING. REFER TO MECHANICAL SPECIFICATIONS.
- PROVIDE BUILDING WITH COPY OF SYSTEM CLEANING AND BALANCING REPORT.
- ALL COMMISSIONING SHALL BE COORDINATED WITH THE BUILDING PRIOR TO EXECUTION.
- ALL CONDENSATE DRAIN PIPING SHALL BE PITCHED A MINIMUM OF 1/8" PER 1' FROM POINT OF CONNECTION TO TERMINATION LOCATION.
- ALL PENETRATIONS ARE TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER.

MECHANICAL KEY NOTES:

- EXISTING REFRIGERANT PIPING UP TO AIR-COOLED CONDENSING UNITS ON THE ROOF TO REMAIN.



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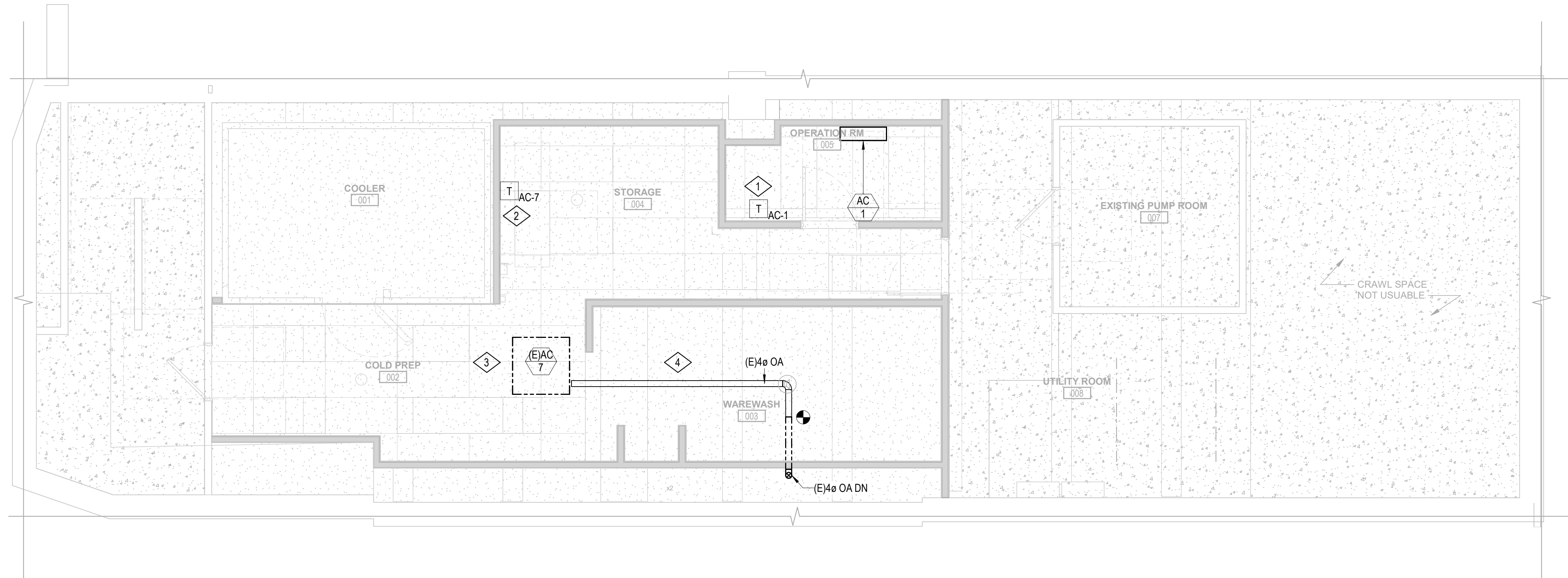
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	05/02/2025	ISSUE FOR PERMIT

**MECHANICAL
CELLAR
DUCTWORK PLAN**

DOB NOW JOB # M01217029-P1

M-130.00



1 CELLAR
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL NON-ACOUSTICAL PARTITIONS ARE ASSUMED TO EXTEND 6" ABOVE FINISHED CEILING AND BE HELD BELOW DECK.
2. REFER TO MECHANICAL SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.
3. COORDINATE ALL SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
4. COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
5. COORDINATE ALL AIR OUTLET LOCATIONS, THERMOSTATS, TEMPERATURE SENSORS, AND ACCESS DOORS WITH ARCHITECT. SUBMIT FOR ARCHITECT AND ENGINEER APPROVAL.
6. REFER TO MECHANICAL SPECIFICATIONS FOR ALL TEMPERATURE CONTROL REQUIREMENTS.
7. REFER TO MECHANICAL SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. DUCT SIZES INDICATED ON PLAN ARE CLEAR OPEN DIMENSIONS. ACOUSTICAL LINING SHALL BE PROVIDED:
 - 10' DOWNSTREAM OF ALL AC UNITS
 - 10' UPSTREAM AND DOWNSTREAM OF ALL EXHAUST FANS
 - ALL RETURN DUCTS, TRANSFER DUCTS, AND PLENUMS
9. PROVIDE THE NEXT DIFFUSER NECK SIZE UP FOR ALL OUTLETS INDICATED WITH BLANK-OFFS.
10. REFER TO ARCHITECTURAL PLANS FOR ACOUSTICAL WALL PENETRATION REQUIREMENTS.
11. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE WITHIN EXHAUST SYSTEMS.
12. PROVIDE FLEXIBLE CONNECTIONS FOR ALL SHEET METAL CONNECTIONS TO FAN POWERED EQUIPMENT.
13. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IF FOR REFERENCE ONLY, COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
14. PROVIDE WIRE MESH SCREEN ON OPEN RETURNS ABOVE CEILING. REFER TO DRAWING FOR DUCT SIZES.
15. ALL SUPPLY AND EXHAUST AIR OUTLETS SHALL BE PROVIDED WITH A VOLUME DAMPER. OUTLETS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS. COORDINATE WITH SHEET METAL CONTRACTOR.

MECHANICAL KEY NOTES:

1. PROVIDE HONEYWELL TH8321R1001 THERMOSTATS WITH LOCKABLE COVERS (HONEYWELL CG511A1000 OR EQUAL) FOR THE MECHANICAL EQUIPMENT AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THE AREA AND EXTEND WIRING TO REMOTE TEMPERATURE SENSOR AND UNITS. LABEL EACH THERMOSTAT ACCORDINGLY. COORDINATE THERMOSTAT LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THE THERMOSTATS ARE NOT BLOCKED BY SHELVING, COAT RACKS OR DOORS.
2. RELOCATE EXISTING THERMOSTAT FOR ACU-7 TO THIS LOCATION.
3. RELOCATE EXISTING AC-7 TO THIS LOCATION.
4. EXTEND EXISTING OUTSIDE AIR DUCT TO RELOCATED AC-7.



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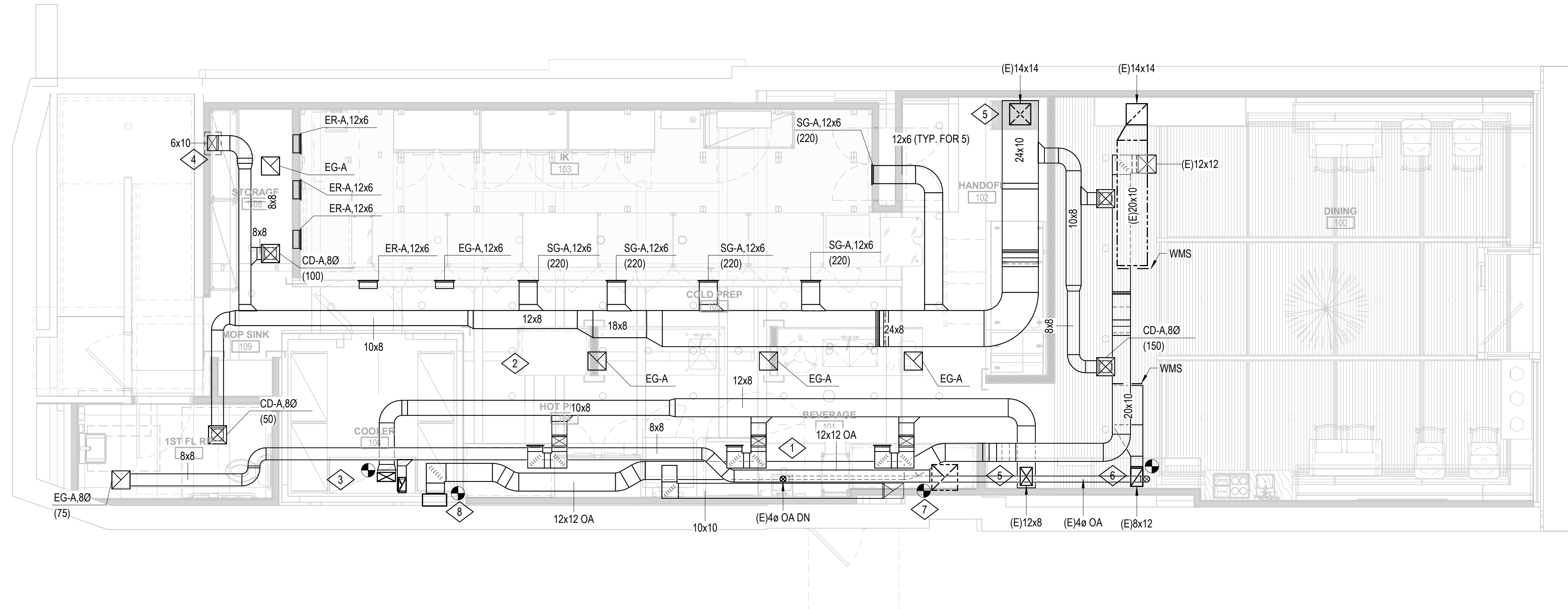
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2	06/16/2025	LL REVISIONS

MECHANICAL FIRST FLOOR DUCTWORK PLAN

DOB NOW JOB #

M-131.00



1 LEVEL 01
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL NON-ACOUSTICAL PARTITIONS ARE ASSUMED TO EXTEND 6" ABOVE FINISHED CEILING AND BE HELD BELOW DECK.
2. REFER TO MECHANICAL SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.
3. COORDINATE ALL SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
4. COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
5. COORDINATE ALL AIR OUTLET LOCATIONS, THERMOSTATS, TEMPERATURE SENSORS, AND ACCESS DOORS WITH ARCHITECT. SUBMIT FOR ARCHITECT AND ENGINEER APPROVAL.
6. REFER TO MECHANICAL SPECIFICATIONS FOR ALL TEMPERATURE CONTROL REQUIREMENTS.
7. REFER TO MECHANICAL SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. DUCT SIZES INDICATED ON PLAN ARE CLEAR OPEN DIMENSIONS. ACOUSTICAL LINING SHALL BE PROVIDED:
 - 10' DOWNSTREAM OF ALL AC UNITS
 - 10' UPSTREAM AND DOWNSTREAM OF ALL EXHAUST FANS
 - ALL RETURN DUCTS, TRANSFER DUCTS, AND PLENUMS
9. PROVIDE THE NEXT DIFFUSER NECK SIZE UP FOR ALL OUTLETS INDICATED WITH BLANK-OFFS.
10. REFER TO ARCHITECTURAL PLANS FOR ACOUSTICAL WALL PENETRATION REQUIREMENTS.
11. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE WITHIN EXHAUST SYSTEMS.
12. PROVIDE FLEXIBLE CONNECTIONS FOR ALL SHEET METAL CONNECTIONS TO FAN POWERED EQUIPMENT.
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14. PROVIDE WIRE MESH SCREEN ON OPEN RETURNS ABOVE CEILING. REFER TO DRAWING FOR DUCT SIZES.
15. ALL SUPPLY AND EXHAUST AIR OUTLETS SHALL BE PROVIDED WITH A VOLUME DAMPER. OUTLETS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS. COORDINATE WITH SHEET METAL CONTRACTOR.
16. PAINT ALL DUCTWORK VISIBLE THROUGH THE GRILLES IN THE DINING BLACK AREA - TYPICAL.

MECHANICAL KEY NOTES:

1. ROUTE KITCHEN EXHAUST DUCTWORK BENEATH OUTSIDE AIR DUCTWORK.
2. 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.
3. ROUTE DUCTWORK ABOVE WALK IN COOLER. CONTRACTOR TO FIELD VERIFY THAT DUCTWORK WILL NOT CONFLICT WITH WALK IN COOLER DIMENSIONS.
4. 15"x11" SLAB OPENING AND SHAFT UP TO SECOND FLOOR FOR 6"x10" SUPPLY AIR DUCTWORK.
5. CONNECT NEW SUPPLY DUCTWORK TO EXISTING SUPPLY AIR RISER FROM LEVEL 2 MECHANICAL ROOM.
6. CONNECT NEW RETURN DUCTWORK TO EXISTING RETURN AIR RISER FROM LEVEL 2 MECHANICAL ROOM.
7. CONNECT NEW TOILET EXHAUST DUCTWORK TO EXISTING BASE BUILDING TOILET EXHAUST RISER.
8. CONNECT NEW OUTSIDE AIR DUCTWORK TO EXISTING OUTSIDE AIR RISER FROM LEVEL 3 ROOF SPACE.



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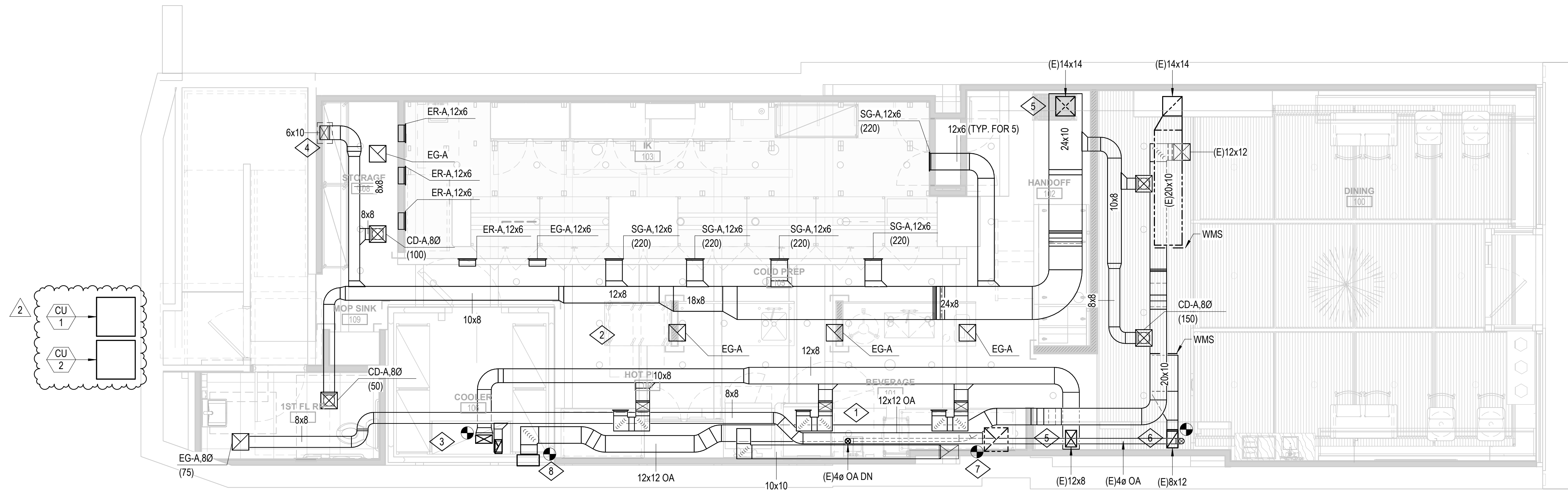
REVISIONS

REV.	DATE	DESCRIPTION
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05/02/2025		ISSUE FOR PERMIT
2	08/01/2025	PERMIT AMENDMENT

MECHANICAL FIRST FLOOR DUCTWORK PLAN

DOB NOW JOB # M01217029-P1

M-131.01



1 LEVEL 01
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL NON-ACOUSTICAL PARTITIONS ARE ASSUMED TO EXTEND 6" ABOVE FINISHED CEILING AND BE HELD BELOW DECK.
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7. REFER TO MECHANICAL SPECIFICATIONS FOR INSULATION REQUIREMENTS.
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9. PROVIDE THE NEXT DIFFUSER NECK SIZE UP FOR ALL OUTLETS INDICATED WITH BLANK-OFFS.
10. REFER TO ARCHITECTURAL PLANS FOR ACOUSTICAL WALL PENETRATION REQUIREMENTS.
11. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE WITHIN EXHAUST SYSTEMS.
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5. CONNECT NEW SUPPLY DUCTWORK TO EXISTING SUPPLY AIR RISER FROM LEVEL 2 MECHANICAL ROOM.
6. CONNECT NEW RETURN DUCTWORK TO EXISTING RETURN AIR RISER FROM LEVEL 2 MECHANICAL ROOM.
7. CONNECT NEW TOILET EXHAUST DUCTWORK TO EXISTING BASE BUILDING TOILET EXHAUST RISER.
8. CONNECT NEW OUTSIDE AIR DUCTWORK TO EXISTING OUTSIDE AIR RISER FROM LEVEL 3 ROOF SPACE.



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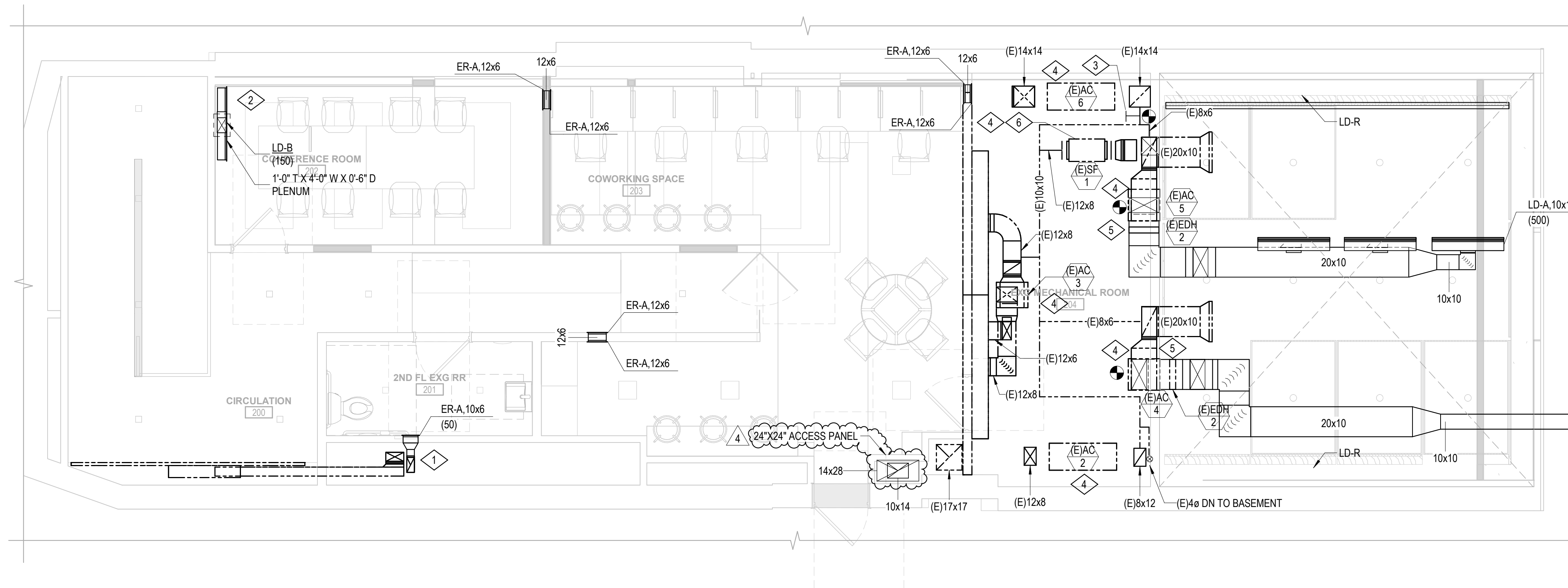
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2	06/16/2025	LL REVISIONS
4	6/23/2025	ISSUE FOR CONSTRUCTION

**MECHANICAL
SECOND FLOOR
DUCTWORK PLAN**

DOB NOW JOB #

M-132.00



1 LEVEL 02
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL NON-ACOUSTICAL PARTITIONS ARE ASSUMED TO EXTEND 6" ABOVE FINISHED CEILING AND BE HELD BELOW DECK.
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6. REFER TO MECHANICAL SPECIFICATIONS FOR ALL TEMPERATURE CONTROL REQUIREMENTS.
7. REFER TO MECHANICAL SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. DUCT SIZES INDICATED ON PLAN ARE CLEAR OPEN DIMENSIONS. ACOUSTICAL LINING SHALL BE PROVIDED:
 - 10' DOWNSTREAM OF ALL AC UNITS
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 - ALL RETURN DUCTS, TRANSFER DUCTS, AND PLENUMS
9. PROVIDE THE NEXT DIFFUSER NECK SIZE UP FOR ALL OUTLETS INDICATED WITH BLANK-OFFS.
10. REFER TO ARCHITECTURAL PLANS FOR ACOUSTICAL WALL PENETRATION REQUIREMENTS.
11. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE WITHIN EXHAUST SYSTEMS.
12. PROVIDE FLEXIBLE CONNECTIONS FOR ALL SHEET METAL CONNECTIONS TO FAN POWERED EQUIPMENT.
13. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IF FOR REFERENCE ONLY, COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
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15. ALL SUPPLY AND EXHAUST AIR OUTLETS SHALL BE PROVIDED WITH A VOLUME DAMPER. OUTLETS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS. COORDINATE WITH SHEET METAL CONTRACTOR.

MECHANICAL KEY NOTES:

1. EXISTING TOILET EXHAUST RISER FROM GROUND FLOOR SERVING EXISTING RESTROOM TO REMAIN. PROVIDE NEW EXHAUST GRILLE AS SHOWN ON PLANS.
2. 15'X11" SLAB OPENING AND SHAFT DOWN TO GROUND FLOOR FOR 6"X10" SUPPLY AIR DUCTWORK SERVING THE OFFICE SPACE.
3. PROVIDE NEW RETURN AIR TAP FOR RETURN AIR FROM SECOND FLOOR OFFICE SPACE.
4. REBALANCE EXISTING EQUIPMENT PER NEW AIRFLOWS INDICATED ON M-701.00.
5. EXISTING ELECTRIC DUCT HEATER CONTROLS TO REMAIN AND BE REUSED WITHIN NEW SCOPE OF WORK. VERIFY PROPER OPERATION DURING SYSTEM STARTUP.
6. EXISTING OUTSIDE AIR FAN TO REMAIN. MOTOR TO BE UPGRADED FROM A 3/4 HP MOTOR TO A 1 HP MOTOR. REPLACEMENT PART NUMBER IS 358273 FROM GREENHECK.



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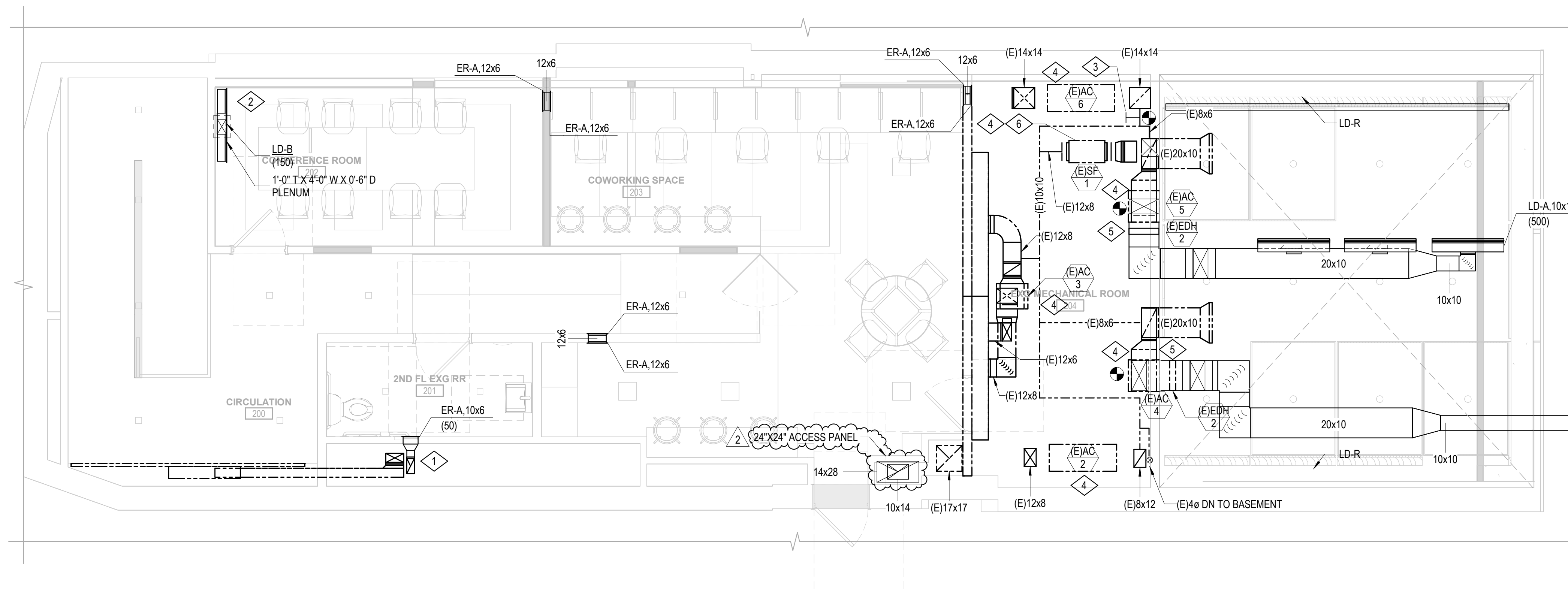
REVISIONS

REV.	DATE	DESCRIPTION
1	04/21/2025	80% SUBMISSION
2	05/02/2025	ISSUE FOR PERMIT
2	08/01/2025	PERMIT AMENDMENT

**MECHANICAL
SECOND FLOOR
DUCTWORK PLAN**

DOB NOW JOB # M01217029-P1

M-132.01



1 LEVEL 02
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL NON-ACOUSTICAL PARTITIONS ARE ASSUMED TO EXTEND 6" ABOVE FINISHED CEILING AND BE HELD BELOW DECK.
2. REFER TO MECHANICAL SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.
3. COORDINATE ALL SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
4. COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
5. COORDINATE ALL AIR OUTLET LOCATIONS, THERMOSTATS, TEMPERATURE SENSORS, AND ACCESS DOORS WITH ARCHITECT. SUBMIT FOR ARCHITECT AND ENGINEER APPROVAL.
6. REFER TO MECHANICAL SPECIFICATIONS FOR ALL TEMPERATURE CONTROL REQUIREMENTS.
7. REFER TO MECHANICAL SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. DUCT SIZES INDICATED ON PLAN ARE CLEAR OPEN DIMENSIONS. ACOUSTICAL LINING SHALL BE PROVIDED:
 - 10' DOWNSTREAM OF ALL AC UNITS
 - 10' UPSTREAM AND DOWNSTREAM OF ALL EXHAUST FANS
 - ALL RETURN DUCTS, TRANSFER DUCTS, AND PLENUMS
9. PROVIDE THE NEXT DIFFUSER NECK SIZE UP FOR ALL OUTLETS INDICATED WITH BLANK-OFFS.
10. REFER TO ARCHITECTURAL PLANS FOR ACOUSTICAL WALL PENETRATION REQUIREMENTS.
11. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE WITHIN EXHAUST SYSTEMS.
12. PROVIDE FLEXIBLE CONNECTIONS FOR ALL SHEET METAL CONNECTIONS TO FAN POWERED EQUIPMENT.
13. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IF FOR REFERENCE ONLY, COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
14. PROVIDE WIRE MESH SCREEN ON OPEN RETURNS ABOVE CEILING. REFER TO DRAWING FOR DUCT SIZES.
15. ALL SUPPLY AND EXHAUST AIR OUTLETS SHALL BE PROVIDED WITH A VOLUME DAMPER. OUTLETS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS. COORDINATE WITH SHEET METAL CONTRACTOR.

MECHANICAL KEY NOTES:

1. EXISTING TOILET EXHAUST RISER FROM GROUND FLOOR SERVING EXISTING RESTROOM TO REMAIN. PROVIDE NEW EXHAUST GRILLE AS SHOWN ON PLANS.
2. 15'X11" SLAB OPENING AND SHAFT DOWN TO GROUND FLOOR FOR 6"X10" SUPPLY AIR DUCTWORK SERVING THE OFFICE SPACE.
3. PROVIDE NEW RETURN AIR TAP FOR RETURN AIR FROM SECOND FLOOR OFFICE SPACE.
4. REBALANCE EXISTING EQUIPMENT PER NEW AIRFLOWS INDICATED ON M-701.00.
5. EXISTING ELECTRIC DUCT HEATER CONTROLS TO REMAIN AND BE REUSED WITHIN NEW SCOPE OF WORK. VERIFY PROPER OPERATION DURING SYSTEM STARTUP.
6. EXISTING OUTSIDE AIR FAN TO REMAIN. MOTOR TO BE UPGRADED FROM A 3/4 HP MOTOR TO A 1 HP MOTOR. REPLACEMENT PART NUMBER IS 358273 FROM GREENHECK.



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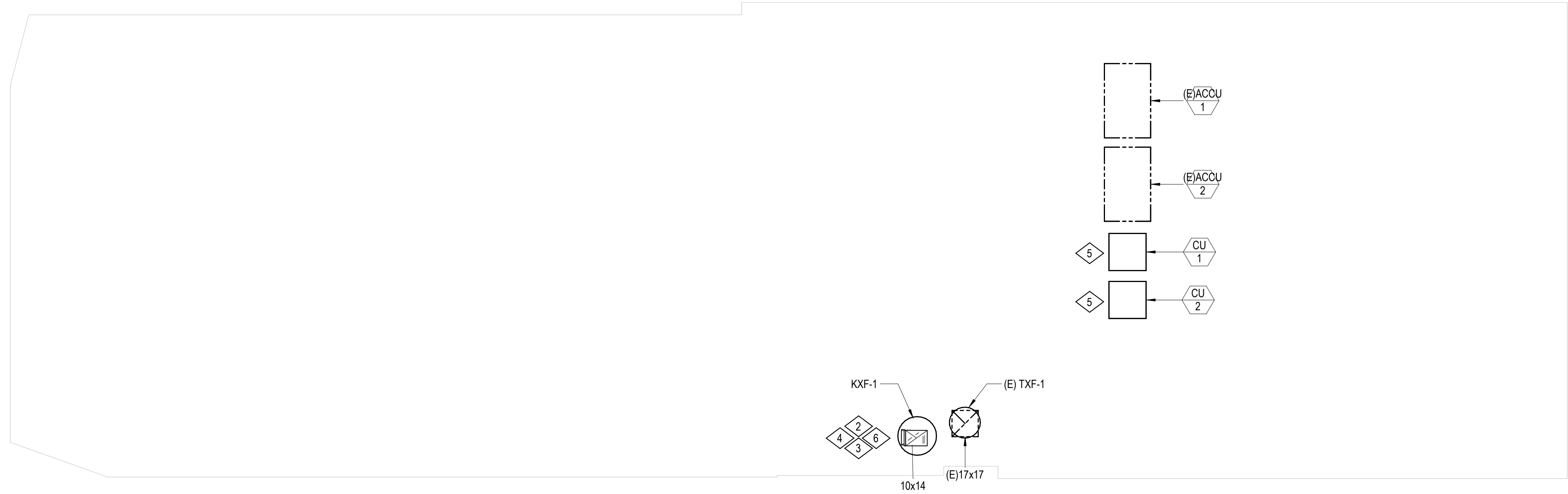
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2	06/16/2025	LL REVISIONS

**MECHANICAL ROOF
DUCTWORK PLAN**

DOB NOW JOB #

M-133.00



1 ROOF WORK
1/4" = 1'-0"

GENERAL MECHANICAL NOTES:

1. ALL NON-ACOUSTICAL PARTITIONS ARE ASSUMED TO EXTEND 6" ABOVE FINISHED CEILING AND BE HELD BELOW DECK.
2. REFER TO MECHANICAL SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.
3. COORDINATE ALL SCOPE OF WORK AND SCHEDULING WITH ALL TRADES AND LANDLORD PRIOR TO CONSTRUCTION.
4. COORDINATE ALL SCOPE AND CONSTRUCTION REQUIREMENTS WITH BUILDING RULES AND REGULATIONS.
5. COORDINATE ALL AIR OUTLET LOCATIONS, THERMOSTATS, TEMPERATURE SENSORS, AND ACCESS DOORS WITH ARCHITECT. SUBMIT FOR ARCHITECT AND ENGINEER APPROVAL.
6. REFER TO MECHANICAL SPECIFICATIONS FOR ALL TEMPERATURE CONTROL REQUIREMENTS.
7. REFER TO MECHANICAL SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. DUCT SIZES INDICATED ON PLAN ARE CLEAR OPEN DIMENSIONS. ACOUSTICAL LINING SHALL BE PROVIDED:
 - 10' DOWNSTREAM OF ALL AC UNITS
 - 10' UPSTREAM AND DOWNSTREAM OF ALL EXHAUST FANS
 - ALL RETURN DUCTS, TRANSFER DUCTS, AND PLENUMS
9. PROVIDE THE NEXT DIFFUSER NECK SIZE UP FOR ALL OUTLETS INDICATED WITH BLANK-OFFS.
10. REFER TO ARCHITECTURAL PLANS FOR ACOUSTICAL WALL PENETRATION REQUIREMENTS.
11. FLEXIBLE DUCTWORK IS NOT PERMITTED FOR USE WITHIN EXHAUST SYSTEMS.
12. PROVIDE FLEXIBLE CONNECTIONS FOR ALL SHEET METAL CONNECTIONS TO FAN POWERED EQUIPMENT.
13. NO DUCTWORK OR PIPING SHALL BE RUN WITHIN EQUIPMENT REQUIRED ACCESS SPACE. ACCESS SHOWN WITHIN FLOOR PLAN IF FOR REFERENCE ONLY, COORDINATE WITH EQUIPMENT MANUFACTURER FOR SPECIFIC ACCESS REQUIREMENTS.
14. PROVIDE WIRE MESH SCREEN ON OPEN RETURNS ABOVE CEILING. REFER TO DRAWING FOR DUCT SIZES.
15. ALL SUPPLY AND EXHAUST AIR OUTLETS SHALL BE PROVIDED WITH A VOLUME DAMPER. OUTLETS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH CABLE OPERATED DAMPERS. COORDINATE WITH SHEET METAL CONTRACTOR.

MECHANICAL KEY NOTES:

1. EXISTING TOILET EXHAUST FAN (TXF-1) TO BE REBALANCED FOR NEW AIRFLOW RATE.
2. FIELD VERIFY NEW EXHAUST FAN DISCHARGE IS A MINIMUM OF 10'-0" FROM EACH BUILDING OPENING.
3. NEW KITCHEN EXHAUST DUCTWORK TO ROUTE UP THE EXTERIOR OF THE BUILDING.
4. KITCHEN EXHAUST FAN TO BE INTERLOCKED TO EXISTING OUTSIDE FAN SF-1. IF SF-1 IS NOT CAPABLE OF INTERLOCK, PROVIDE NEW TIMECLOCK FOR FAN INTERLOCK. COORDINATE TIMECLOCK LOCATION WITH OWNERSHIP PRIOR TO INSTALLATION. REFER TO MECHANICAL SPECIFICATIONS FOR TEMPERATURE CONTROL REQUIREMENTS.
5. PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNITS SERVING WALK IN COOLER. COORDINATE FIELD CONDITION WITH ROUTING TO ROUTE, SIZE, AND CONSTRUCT REFRIGERANT PIPING PER MANUFACTURER REQUIREMENTS. SUBMIT INFORMATION TO MANUFACTURER FOR FINAL REVIEW.
6. PROVIDE AUTOMATIC CONTROL DAMPER IN DUCTWORK FOR KXF-1.



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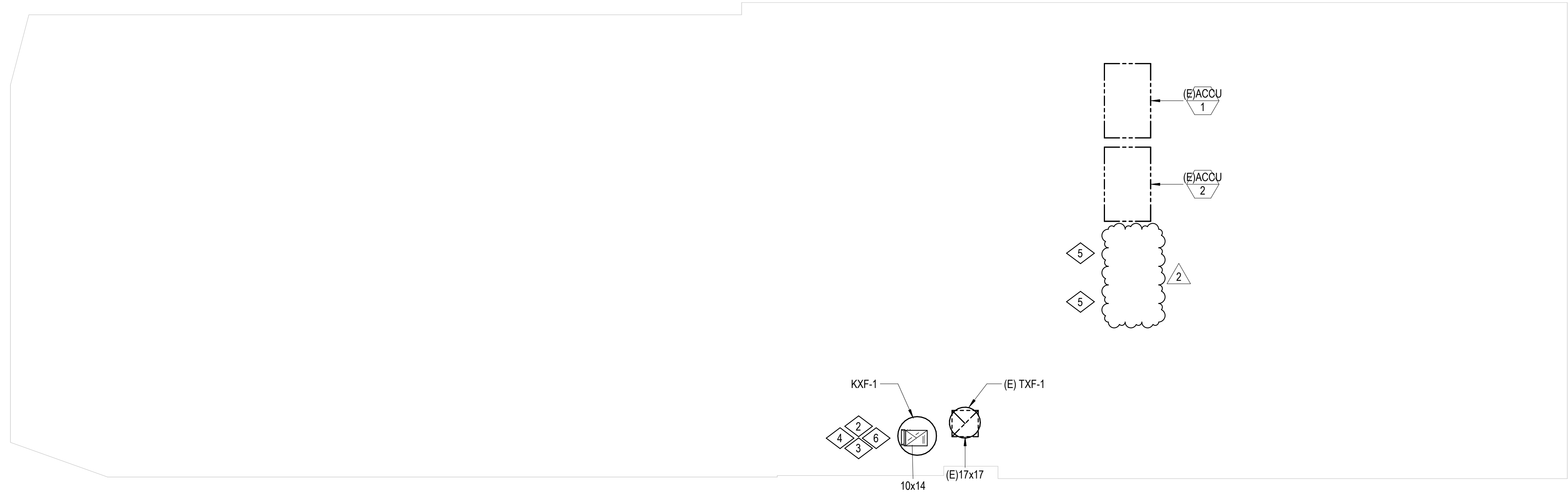
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**MECHANICAL ROOF
DUCTWORK PLAN**

DOB NOW JOB # M01217029-P1

M-133.01



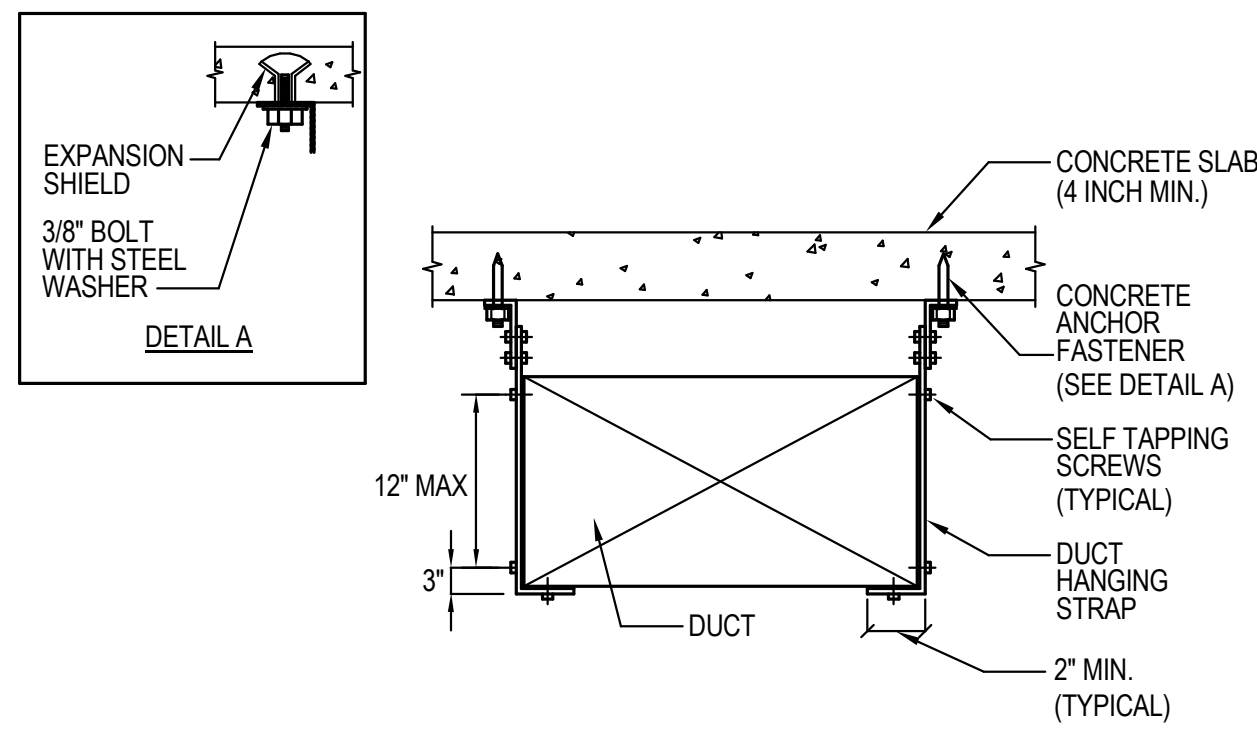
1 ROOF WORK
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GENERAL MECHANICAL NOTES:

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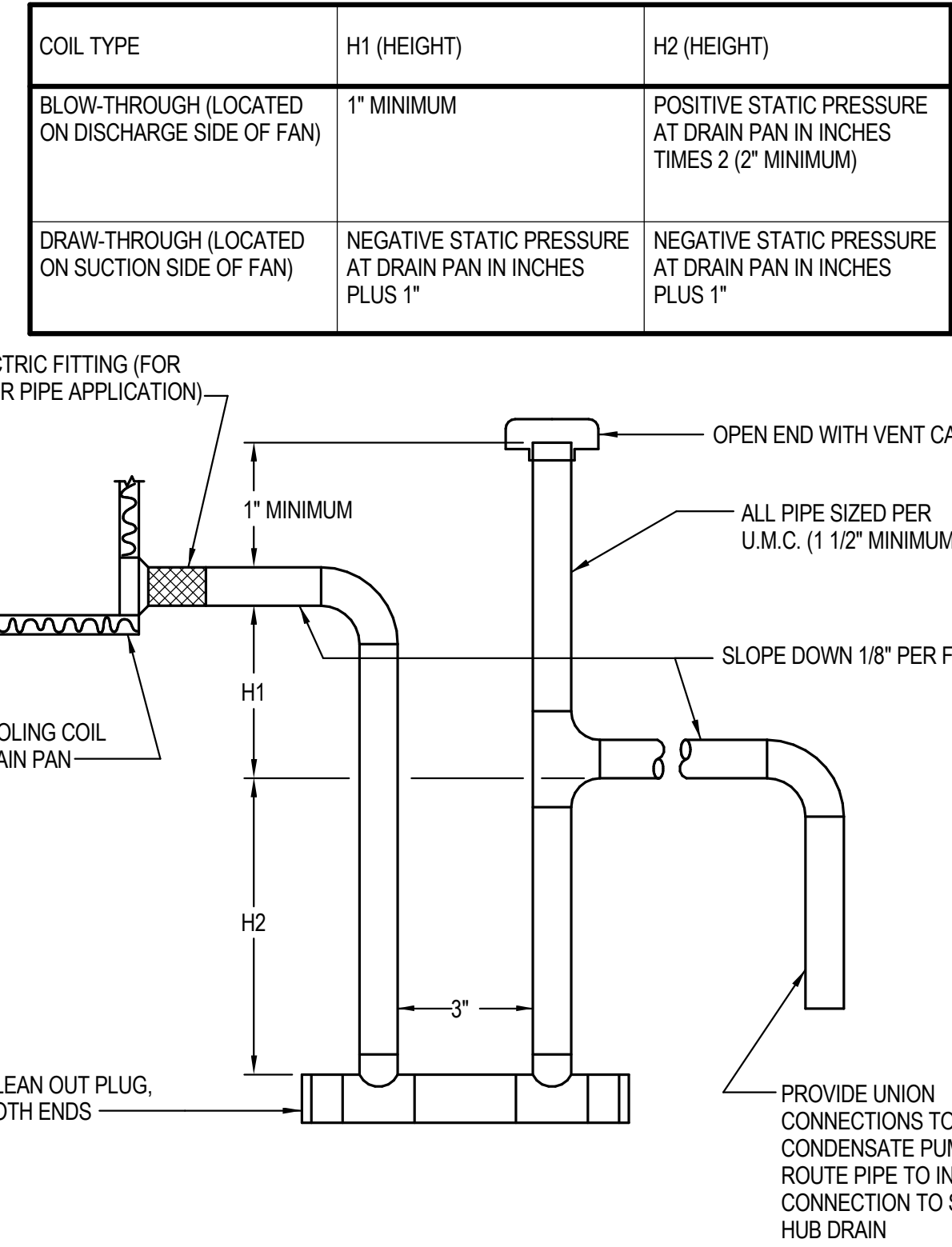
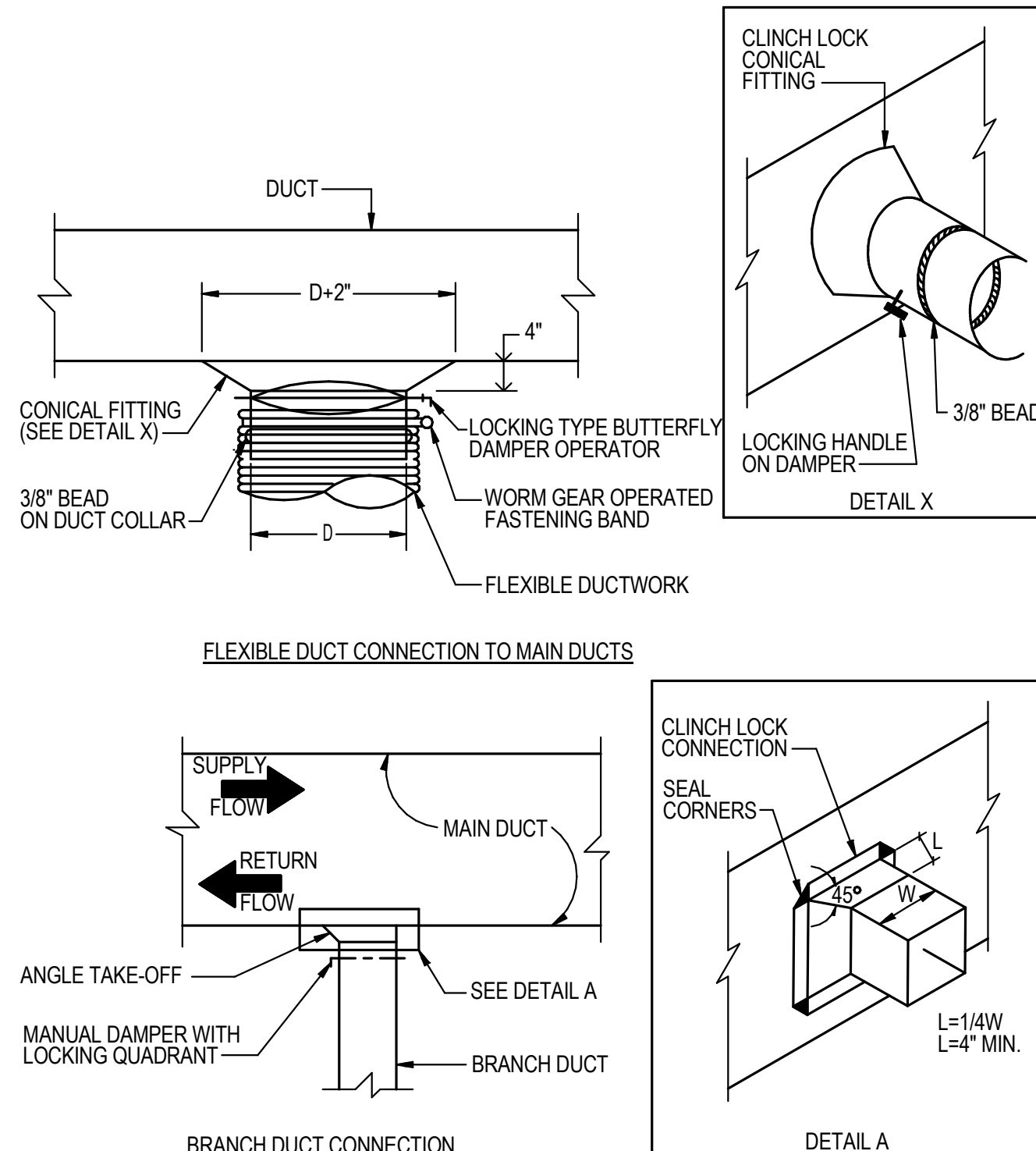
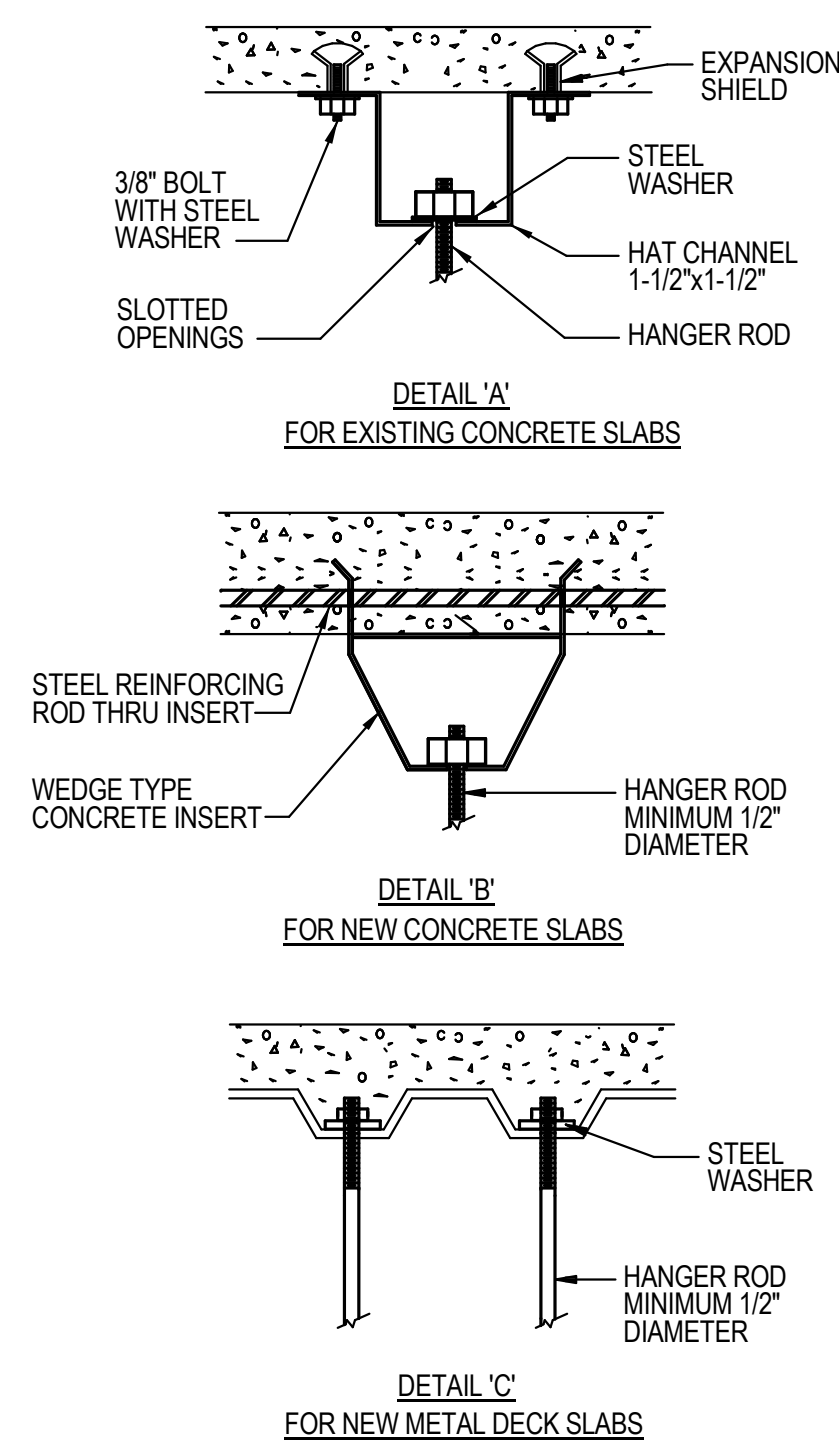
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6. PROVIDE AUTOMATIC CONTROL DAMPER IN DUCTWORK FOR KXF-1.



NOTES FOR DUCT HANGING DETAILS:

- DUCT SHALL BE SUSPENDED WITH GALVANIZED BAND IRON STRAPS SECURELY FASTENED TO THE BOTTOM AND SIDE OF THE DUCT. STRAPS TO BE SIZED IN ACCORDANCE WITH THE SMACNA TABLE 4-1 OR ACCORDING TO LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- | CROSS SECTIONAL AREA (SQ.FT.) | MAX. HANGER SPACING (FT.) |
|-------------------------------|---------------------------|
| UP TO 4 | 8 |
| OVER 4 NOT TO EXCEED 10 | 6 |
| OVER 10 | 4 |
- DUCTS WIDER THAN 60 INCHES TO BE SUPPORTED BY TRAPEZOIDAL ANGLES IN ACCORDANCE WITH SMACNA TABLE 4-3.

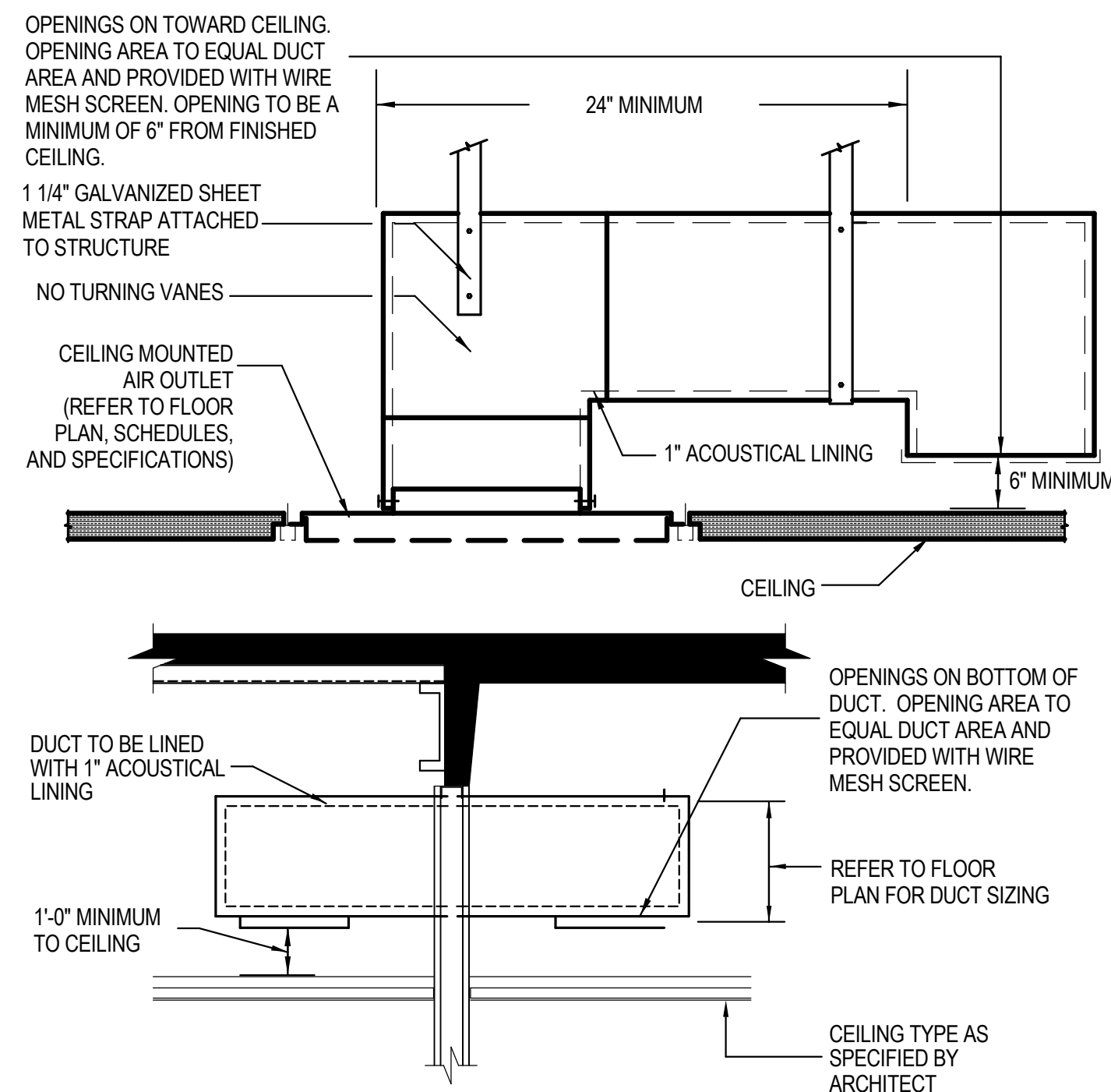


1 DUCT HANGING DETAIL FOR EXISTING SLAB
SCALE: NTS

2 STRUCTURE ATTACHMENTS
SCALE: NTS

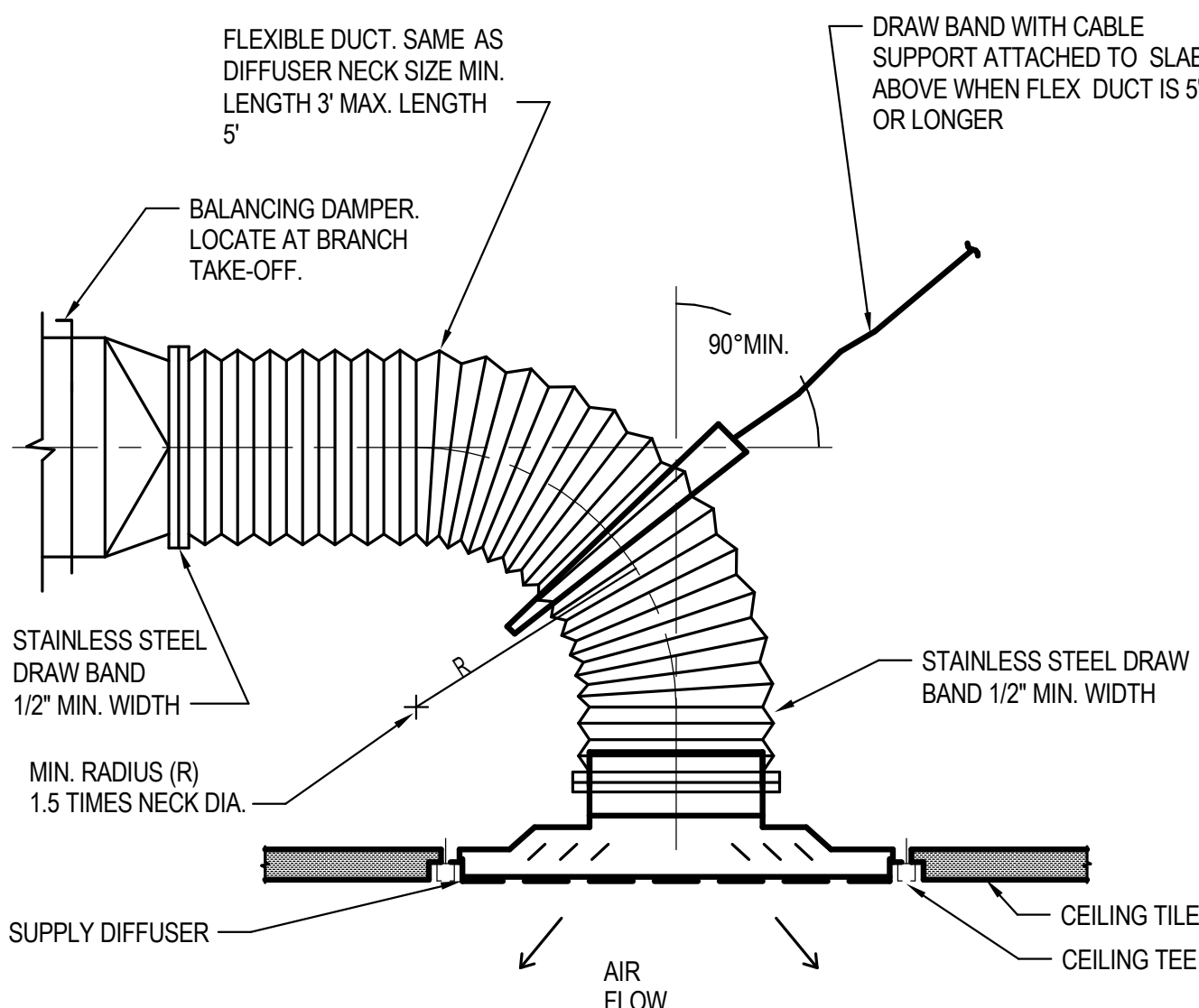
3 LOW PRESSURE BRANCH DUCT CONNECTIONS
SCALE: NTS

4 COOLING COIL CONDENSATE TRAP
SCALE: NTS

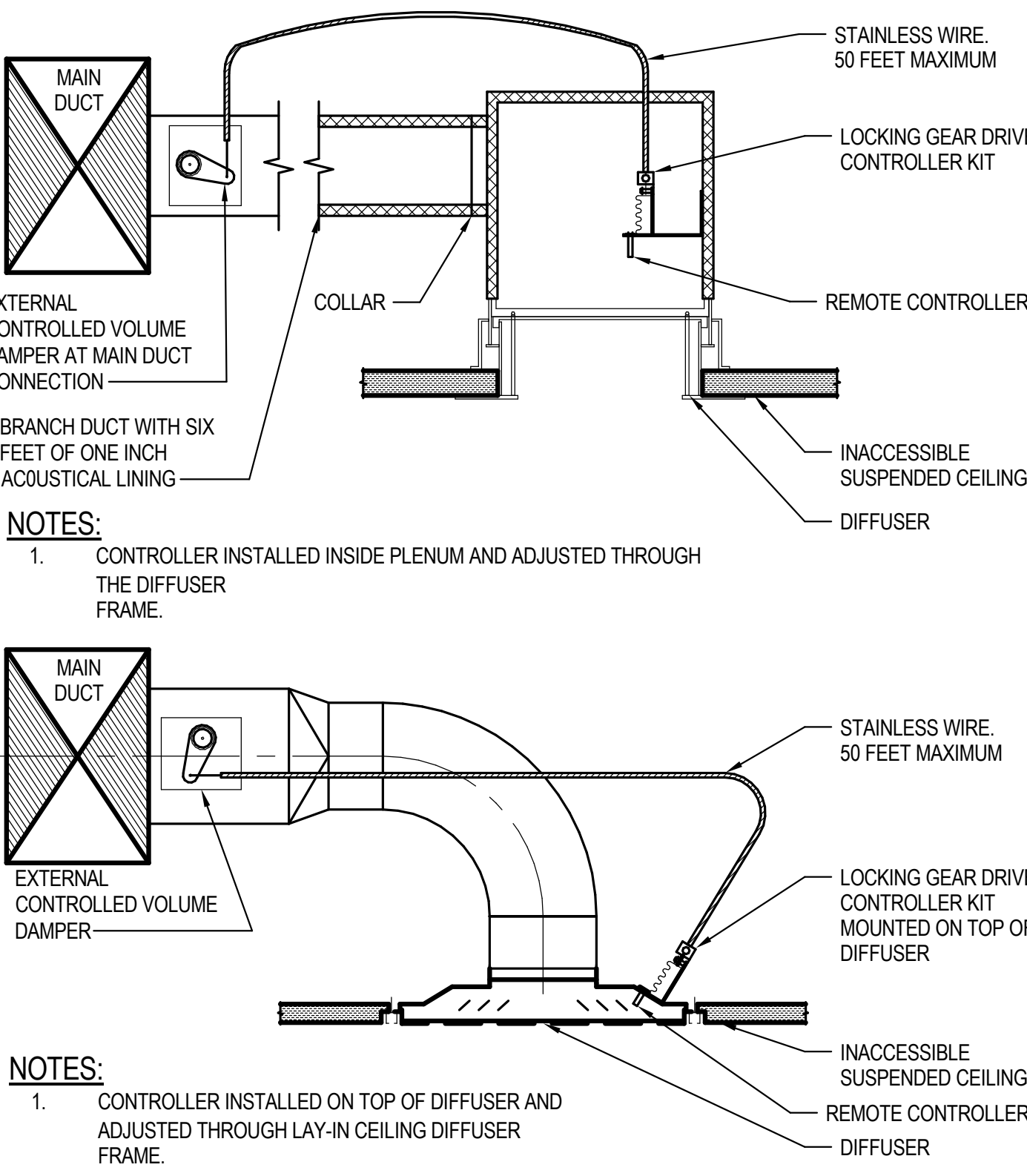


- NOTES FOR TRANSFER AIR DUCT ASSEMBLY:**
- FOR TRANSFER DUCTS NOT CONNECTED TO CEILING OUTLETS PROVIDE AN DOWNTURN 90 DEGREE ELBOW AT EACH END OF THE DUCT. ELBOW TERMINATION ELEVATIONS SHALL BE COORDINATED WITH ALL OBSTRUCTIONS TO PROVIDE EQUIVALENT OPEN FREE AREA OF TRANSFER DUCT OPENING
 - ALL TRANSFER OPENINGS ABOVE CONCEALED CEILINGS ARE TO BE PROVIDED WITH WIRE MESH SCREENS.

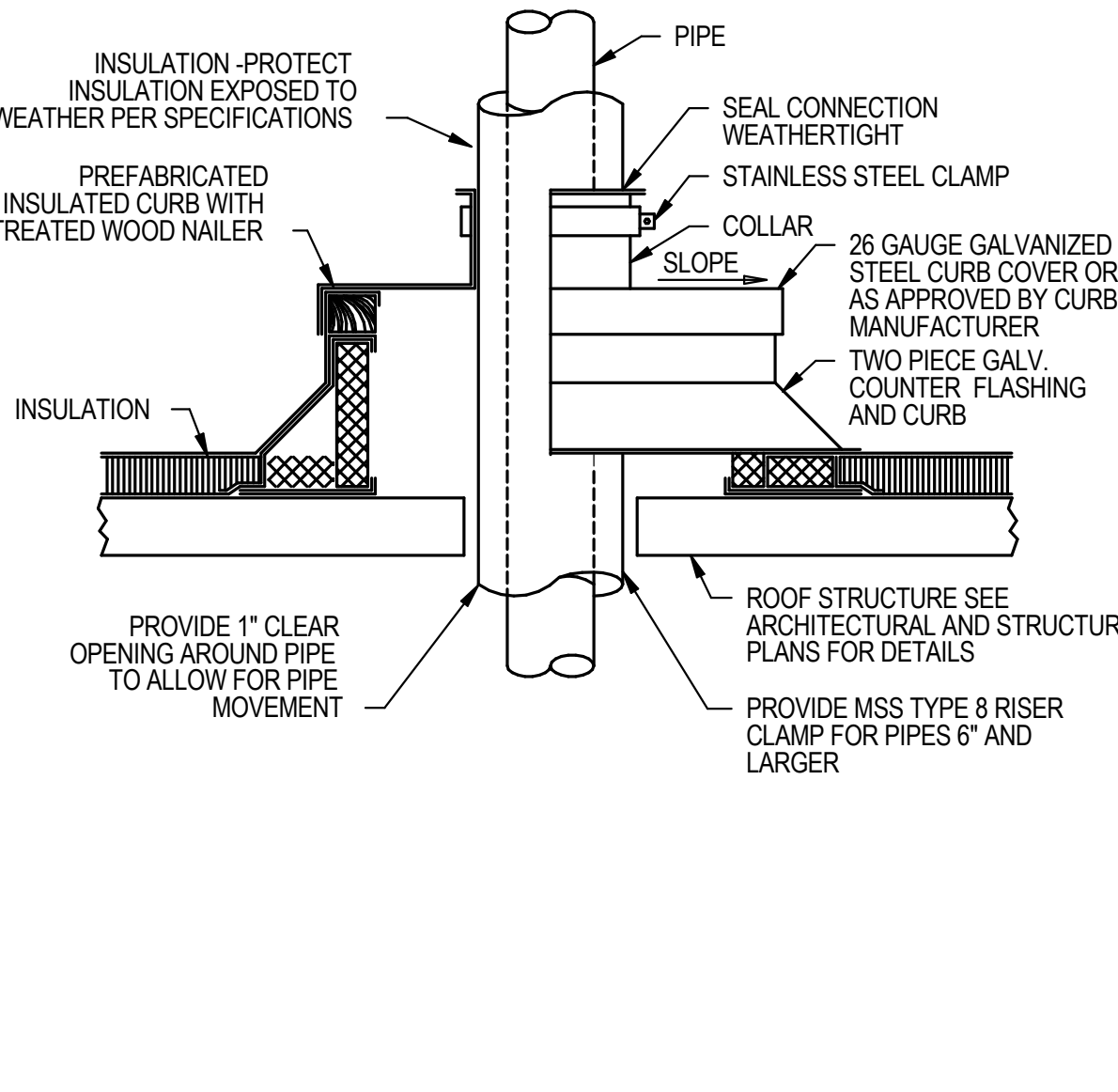
5 TRANSFER AIR DUCT ASSEMBLIES
SCALE: NTS



6 SUPPLY DIFFUSER CONNECTION DETAIL
SCALE: NTS



7 REMOTE CABLE DAMPER CONTROLLER
SCALE: NTS



8 PIPE ROOF PENETRATION DETAIL
SCALE: NTS



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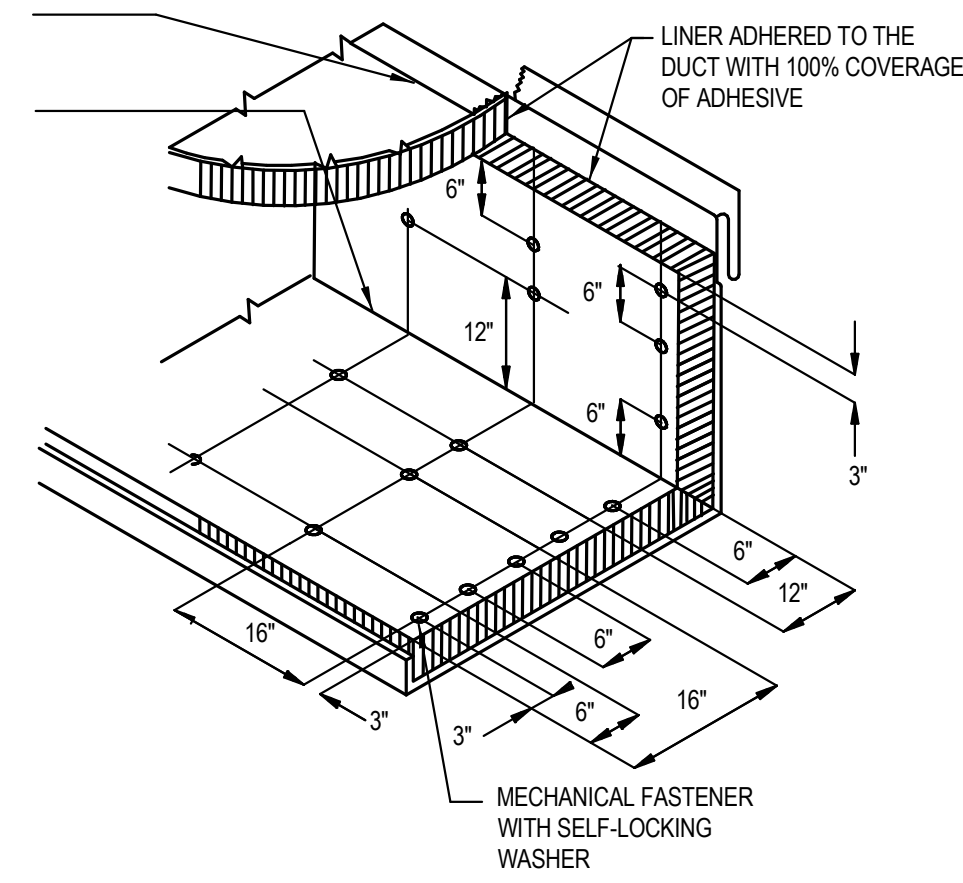
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**MECHANICAL
DETAILS SHEET #1**

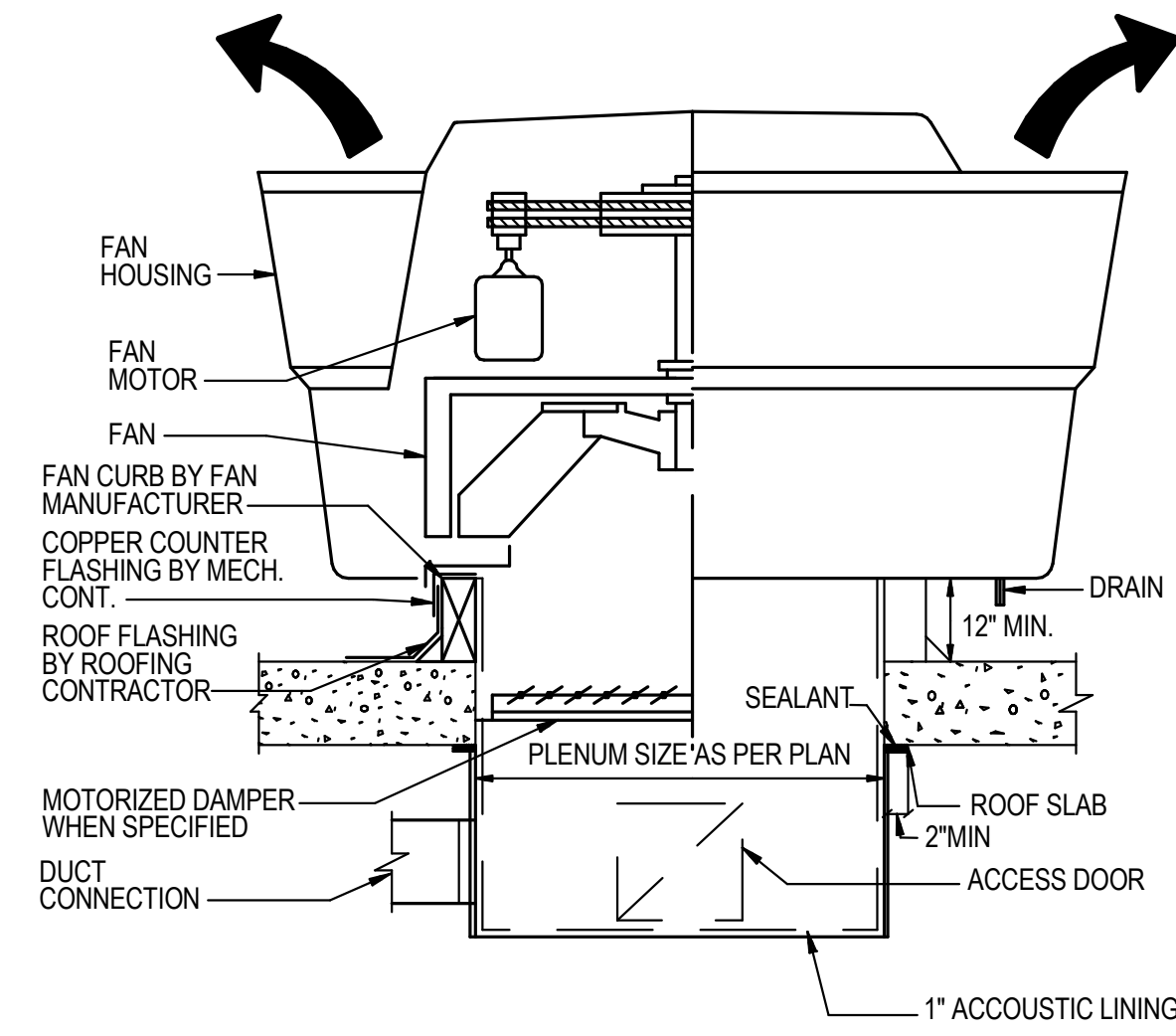
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M-601.00

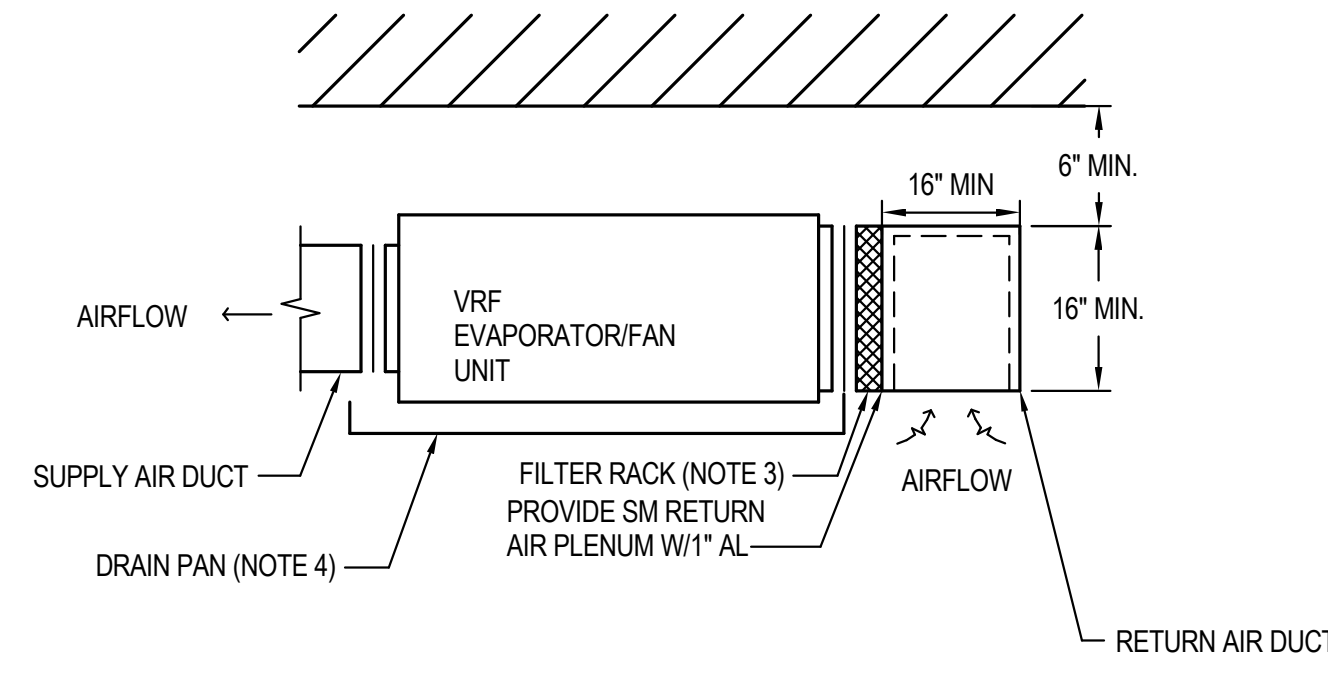


1. MECHANICAL FASTENERS ARE TO BE SPOT WELDED TO DUCTWORK.
2. PROVIDE SHEET METAL NOSING AS DESCRIBED IN SPECIFICATIONS.

9 ACOUSTICAL DUCT LINING DETAIL
SCALE: NTS



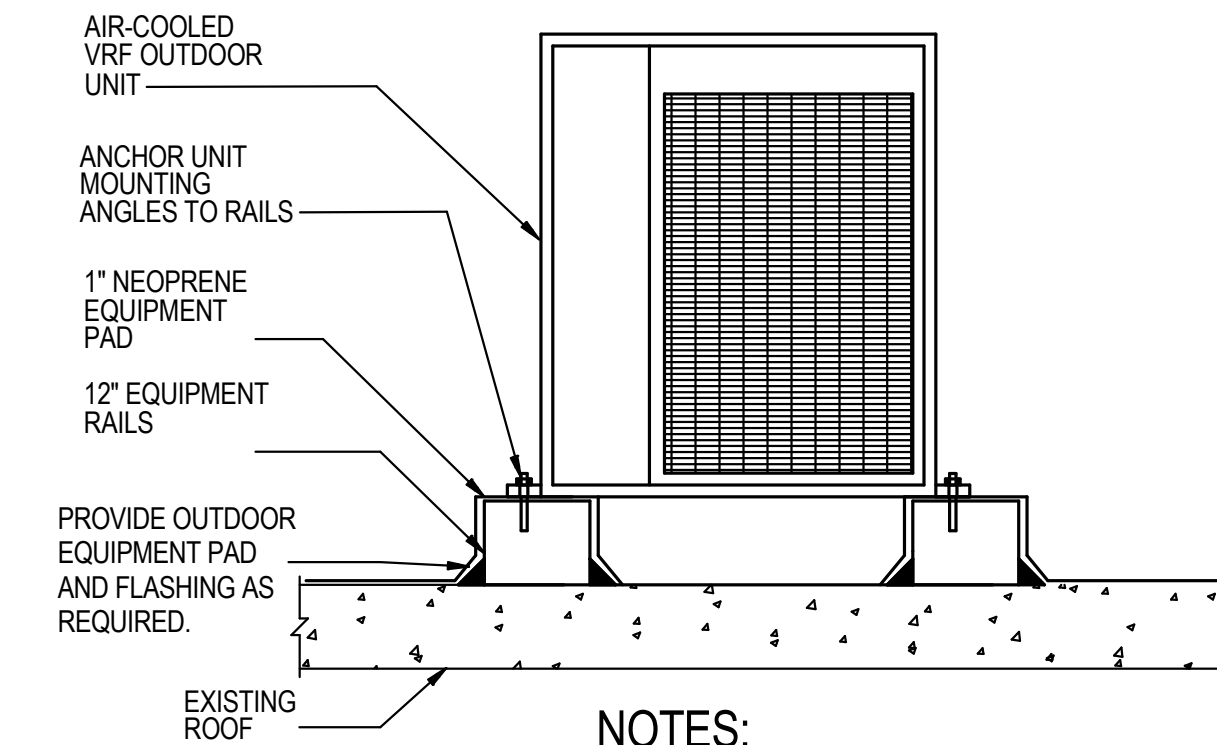
10 ROOF EXHAUST FAN (UPBLAST)
SCALE: NTS



NOTES:

1. REFER TO SPECS FOR SUPPORT DETAILS FOR SUSPENDED EQUIPMENT.
2. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN.
3. FILTER RACKS AND RETURN BOOTS TO BE FABRICATED BY THE MECHANICAL CONTRACTOR. PROVIDE MINIMUM MERV-8 FILTERS.
4. PROVIDE DRAIN PAN FOR ALL FAN COIL UNITS.

11 VRV FAN UNIT NON-DUCTED RETURN AIR DETAIL
SCALE: NTS



NOTES:

1. COORDINATE ALL EQUIPMENT MOUNTING AND ROOFING SCOPE WITH BUILDING RULES AND REGULATIONS PRIOR TO INSTALLATION.

12 CONDENSING UNIT ROOF MOUNTING DETAIL
SCALE: NTS



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**MECHANICAL
DETAILS SHEET #2**

DOB NOW JOB # M01217029-P1

M-602.00

AIR-COOLED VRF AIR CONDITIONING SYSTEMS

EVAPORATOR (INDOOR UNITS)																CONDENSER (OUTDOOR UNITS)																
DESIGNATION	SERVICE	DAIKIN MODEL NUMBER	OUTDOOR AIRFLOW (CFM)	SUPPLY FAN					COOLING DATA				HEATING DATA		ELECTRICAL DATA		OPERATING WEIGHT (LBS)	REMARKS	DESIGNATION	LOCATION	DAIKIN MODEL NUMBER	SUMMER AMBIENT TEMP. DB (°F)	WINTER AMBIENT TEMP. DB (°F)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	MIN EFF. REQUIREMENT (EER)	EER	ELECTRICAL DATA		OPERATING WEIGHT (LBS)	REFRIGERANT	REMARKS
				AIR FLOW (CFM)	EXT. SP. (IN. WG.)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	CAPACITY (MBH)	EAT	LAT	CAPACITY (MBH)	VOLTAGE/PHASE	UNIT MCA	VOLTAGE/PHASE												UNIT MCA				
AC-1	OPERATIONS ROOM	FXAQ12PVJU	-	290	NON-DUCTED	80.0	67.0	55.00	53.00	12.0	65	85	13.5	208/1	0.4	50	NEW	(E)ACCU-1	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-2	INFINITE KITCHEN	FXTQ18TAVJUA	-	510	0.5" DUCTED	80.0	67.0	55.00	53.00	14.8	65	85	20.0	208/1	4.9	120	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-3	SECOND FLOOR CIRCULATION	FXTQ18TAVJUA	-	510	0.3" DUCTED	80.0	67.0	55.00	53.00	14.8	65	85	20.0	208/1	4.9	120	EXISTING TO REMAIN															
(E)AC-4	DOUBLE HEIGHT ENTRY	FXTQ54TAVJUA	-	1530	0.5" DUCTED	80.0	67.0	55.00	53.00	44.5	65	85	60.0	208/1	8.6	175	EXISTING TO REMAIN															
(E)AC-5	DOUBLE HEIGHT ENTRY	FXTQ54TAVJUA	-	1530	0.5" DUCTED	80.0	67.0	55.00	53.00	44.5	65	85	60.0	208/1	8.6	175	EXISTING TO REMAIN															
(E)AC-6	INFINITE KITCHEN	FXTQ54TAVJUA	-	1530	0.7" DUCTED	80.0	67.0	55.00	53.00	44.5	65	85	60.0	208/1	8.6	175	EXISTING TO REMAIN															
(E)AC-7	WAREWASH	FXFQ36PVJU	-	900	NON-DUCTED	80.0	67.0	55.00	53.00	29.7	65	85	40.0	208/1	1.4	50	EXISTING TO REMAIN															

NOTES:
 1. ALL EXISTING UNITS ARE SHOWN FOR REFERENCE ONLY.
 2. AC-1 TO BE WALL HUNG AND PROVIDED WITH THERMOSTAT AND CONDENSATE PUMP AS SHOWN ON PLANS.
 3. REBALANCE EXISTING EQUIPMENT PER NEW AIRFLOWS INDICATED ON SCHEDULE.

FANS

DESIGNATION	SERVICE	MANUF. MODEL NUMBER	TYPE	CFM	EXTERNAL STATIC PRESSURE (IN. WG.)	RPM	BHP	MOTOR		MOTOR TYPE	OPERATING WEIGHT (LBS)	MANUFACTURER	NOTES
								HP	VOLTAGE/PHASE				
(E)SF-1	OUTSIDE AIR	SQ-98-VG	INLINE	750	0.5	1949	0.45	1	115/1	ECM	100	GREENHECK	REPLACE MOTOR PART #358273
KXF-1	KITCHEN EXHAUST	CUE-140HP-VG	UPBLAST	800	1.5	1671	0.38	1/2	115/1	ECM	100	GREENHECK	

NOTES:
 1. PROVIDE SPRING VIBRATION ISOLATORS, & NEMA-3R DISCONNECT SWITCH AND JUNCTION BOX MOUNTED AND WIRED.
 2. PROVIDE UNIT MOUNTED SPEED CONTROLLER FOR FAN BALANCE.
 3. PROVIDE 1" FAN HOUSING MOTOR COVER, PERMATECTOR COATING, MOTORIZED DAMPER, AND BOLTED ACCESS DOOR.
 4. SHALL BE PROVIDED WITH IN-LINE DUCTED FLANGE KIT AND VIBRATION ISOLATOR KIT.
 5. SHALL BE INTERLOCKED WITH EXISTING OUTDOOR UNITS.
 6. REBALANCE EXISTING SF-1 FAN AND PROVIDE NEW MOTOR AS SHOWN IN SCHEDULE.

CONDENSATE PUMP SCHEDULE

DESIGNATION	LOCATION/SERVICE	MANUF. MODEL NUMBER	TYPE	GPM	LIFT (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	VOLTAGE/PHASE	NOTES
CP-A	CELLAR	VCC-20ULS, 554200	PLENUM	3.0	15	-	115/1	SEE NOTES BELOW

NOTES:
 1. COORDINATE DRAIN PIPING FROM EACH AC UNIT TO (2) PUMPS AS INDICATED.
 2. COORDINATE POWER WIRING WITH ELECTRICAL CONTRACTOR. EACH PUMP TO BE HARD WIRED.
 3. TERMINATE CONDENSATE PIPING AT THE NEAREST SINK WITH FUNNEL DRAIN.
 4. PROVIDE DRAIN PAN BELOW EACH CONDENSATE PUMP.

CONDENSING UNIT SCHEDULE

DESIGNATION	DESCRIPTION	PAIRED WITH	NUMBER OF COMPRESSORS	REFRIGERANT	WEIGHT (LB)	ELECTRICAL DATA			SUPPLIER	INSTALLER	MODEL	MANUFACTURER	REMARKS
						VOLTAGE/PHASE	UNIT MCA	UNIT FLA					
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	NA	1	R448A	260	208/1	25	16.3	KES	KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER
CU-2	WALK-IN COOLER REMOTE CONDENSING UNIT	NA	1	R448A	260	208/1	25	16.3	KES	KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER

NOTES:
 1. NEW CONDENSING UNITS SHALL BE PROVIDED WITH EQUIPMENT RAILS AND NEOPRENE PADS.

ELECTRIC DUCT HEATER SCHEDULE

DESIGNATION	SERVICE	LOCATION	DIMENSIONS (WxHxD)	VOLTAGE/PHASE/HZ	MODEL NO.	AIR VEL. (FPM)	CFM	KW	OPTIONS
(E)EDH-1, 2	LOBBY	RETAIL	20" x 10" x 5"	208/3/60	-	468	1500	5	PROVIDE AC, BLE, HEC, N1, PDN, SCR, SF AND TF AND TR.

NOTES:
 1. PROVIDE PROPER CLEARANCE AROUND THE JUNCTION BOX.
 2. COORDINATE WITH ELECTRICAL CONTRACTOR.
 3. CONFIRM SYSTEM OPERATION AND CONTROLS ARE FUNCTIONING PROPERLY DURING SYSTEM STARTUP.
 4. CLEAN EACH COIL PRIOR TO COMPLETION OF CONSTRUCTION.

FILTER BOX

DESIGNATION	LOCATION	PRE-FILTER							FILTER							HOUSING						
		MANUF. MODEL NUMBER	CFM	TYPE	MERV	QUANTITY	SIZE H x W x D (INCHES)	VELOCITY	PRESSURE DROP IN WG (CLEAN)	TYPE	MODEL	EFFICIENCY	QUANTITY	SIZE (NOMINAL)	VELOCITY	PRESSURE DROP IN WG (CLEAN)	MODEL	CONFIGURATION (HxW)	DIMENSIONS (HxWxD)	QUANTITY	REMARKS	
FB-1	SECOND FLOOR	ENDUROPLEAT	800	PEALTED PANEL PRE-FILTER	8	1	24X12X2	400	0.16	HEGA-2000	AEROSTAR HEGA	99%	1	24x12x2	400	0.3	INNERSEAL	1H x 0.5W	26-7/8" x 14-1/8" x 22-1/4"	1	SEE NOTES	

NOTES:
 1. PROVIDE 24"x24" ACCESS PANEL FOR FILTER REPLACEMENTS.



sweetgreen

3102 WEST 36TH STREET
 LOS ANGELES, CALIFORNIA 90018

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 SG DM CHECKED BY:
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 PROJECT NO: 24.20126.000
 TEMPLATE VERSION: 2401

REVISIONS
 REV. DATE DESCRIPTION
 04/21/2025 80% SUBMISSION
 05/02/2025 ISSUE FOR PERMIT
 2 06/16/2025 LL REVISIONS
 4 6/23/2025 ISSUE FOR CONSTRUCTION

MECHANICAL SCHEDULES

DOB NOW JOB #

M-701.00

AIR-COOLED VRF AIR CONDITIONING SYSTEMS

EVAPORATOR (INDOOR UNITS)																CONDENSER (OUTDOOR UNITS)																
DESIGNATION	SERVICE	DAIKIN MODEL NUMBER	OUTDOOR AIRFLOW (CFM)	SUPPLY FAN					COOLING DATA				HEATING DATA		ELECTRICAL DATA		OPERATING WEIGHT (LBS)	REMARKS	DESIGNATION	LOCATION	DAIKIN MODEL NUMBER	SUMMER AMBIENT TEMP. DB (°F)	WINTER AMBIENT TEMP. DB (°F)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	MIN EFF. REQUIREMENT (EER)	EER	ELECTRICAL DATA		OPERATING WEIGHT (LBS)	REFRIGERANT	REMARKS
				AIR FLOW (CFM)	EXT. SP. (IN. WG.)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	CAPACITY (MBH)	EAT	LAT	CAPACITY (MBH)	VOLTAGE/PHASE	UNIT MCA	VOLTAGE/PHASE												UNIT MCA				
AC-1	OPERATIONS ROOM	FXAQ12PVJU	-	290	NON-DUCTED	80.0	67.0	55.00	53.00	12.0	65	85	13.5	208/1	0.4	50	NEW	(E)ACCU-1	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-2	INFINITE KITCHEN	FXTQ18TAVJUA	-	510	0.5" DUCTED	80.0	67.0	55.00	53.00	14.8	65	85	20.0	208/1	4.9	120	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-3	SECOND FLOOR CIRCULATION	FXTQ18TAVJUA	-	510	0.3" DUCTED	80.0	67.0	55.00	53.00	14.8	65	85	20.0	208/1	4.9	120	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-4	DOUBLE HEIGHT ENTRY	FXTQ54TAVJUA	-	1530	0.5" DUCTED	80.0	67.0	55.00	53.00	44.5	65	85	60.0	208/1	8.6	175	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-5	DOUBLE HEIGHT ENTRY	FXTQ54TAVJUA	-	1530	0.5" DUCTED	80.0	67.0	55.00	53.00	44.5	65	85	60.0	208/1	8.6	175	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-6	INFINITE KITCHEN	FXTQ54TAVJUA	-	1530	0.7" DUCTED	80.0	67.0	55.00	53.00	44.5	65	85	60.0	208/1	8.6	175	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	
(E)AC-7	WAREWASH	FXFQ36PVJU	-	900	NON-DUCTED	80.0	67.0	55.00	53.00	29.7	65	85	40.0	208/1	1.4	50	EXISTING TO REMAIN	(E)ACCU-2	ROOF	RXYQ120TTJU	90	14	114.0	129.0	13.2	13.2	208/3	36.3	550	R-410A	EXISTING TO REMAIN	

NOTES:
 1. ALL EXISTING UNITS ARE SHOWN FOR REFERENCE ONLY.
 2. AC-1 TO BE WALL HUNG AND PROVIDED WITH THERMOSTAT AND CONDENSATE PUMP AS SHOWN ON PLANS.
 3. REBALANCE EXISTING EQUIPMENT PER NEW AIRFLOWS INDICATED ON SCHEDULE.

FANS

DESIGNATION	SERVICE	MANUF. MODEL NUMBER	TYPE	CFM	EXTERNAL STATIC PRESSURE (IN. WG.)	RPM	BHP	MOTOR		MOTOR TYPE	OPERATING WEIGHT (LBS)	MANUFACTURER	NOTES
								HP	VOLTAGE/PHASE				
(E)SF-1	OUTSIDE AIR	SQ-98-VG	INLINE	750	0.5	1949	0.45	1	115/1	ECM	100	GREENHECK	REPLACE MOTOR PART #358273
KXF-1	KITCHEN EXHAUST	CUE-140HP-VG	UPBLAST	800	1.5	1671	0.38	1/2	115/1	ECM	100	GREENHECK	-

NOTES:
 1. PROVIDE SPRING VIBRATION ISOLATORS, & NEMA-3R DISCONNECT SWITCH AND JUNCTION BOX MOUNTED AND WIRED.
 2. PROVIDE UNIT MOUNTED SPEED CONTROLLER FOR FAN BALANCE.
 3. PROVIDE 1" FAN HOUSING MOTOR COVER, PERMATECTOR COATING, MOTORIZED DAMPER, AND BOLTED ACCESS DOOR.
 4. SHALL BE PROVIDED WITH IN-LINE DUCTED FLANGE KIT AND VIBRATION ISOLATOR KIT.
 5. SHALL BE INTERLOCKED WITH EXISTING OUTDOOR UNITS.
 6. REBALANCE EXISTING SF-1 FAN AND PROVIDE NEW MOTOR AS SHOWN IN SCHEDULE.

CONDENSATE PUMP SCHEDULE

DESIGNATION	LOCATION/SERVICE	MANUF. MODEL NUMBER	TYPE	GPM	LIFT (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	VOLTAGE/PHASE	NOTES
CP-A	CELLAR	VCC-20ULS, 554200	PLENUM	3.0	15	-	115/1	SEE NOTES BELOW

NOTES:
 1. COORDINATE DRAIN PIPING FROM EACH AC UNIT TO (2) PUMPS AS INDICATED.
 2. COORDINATE POWER WIRING WITH ELECTRICAL CONTRACTOR. EACH PUMP TO BE HARD WIRED.
 3. TERMINATE CONDENSATE PIPING AT THE NEAREST SINK WITH FUNNEL DRAIN.
 4. PROVIDE DRAIN PAN BELOW EACH CONDENSATE PUMP.

CONDENSING UNIT SCHEDULE

DESIGNATION	DESCRIPTION	PAIRED WITH	NUMBER OF COMPRESSORS	REFRIGERANT	WEIGHT (LB)	ELECTRICAL DATA			SUPPLIER	INSTALLER	MODEL	MANUFACTURER	REMARKS
						VOLTAGE/PHASE	UNIT MCA	UNIT FLA					
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	NA	1	R448A	260	208/1	25	16.3	KES	KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER
CU-2	WALK-IN COOLER REMOTE CONDENSING UNIT	NA	1	R448A	260	208/1	25	16.3	KES	KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER

NOTES:
 1. NEW CONDENSING UNITS SHALL BE PROVIDED WITH EQUIPMENT RAILS AND NEOPRENE PADS.

ELECTRIC DUCT HEATER SCHEDULE

DESIGNATION	SERVICE	LOCATION	DIMENSIONS (WxHxD)	VOLTAGE/PHASE/HZ	MODEL NO.	AIR VEL. (FPM)	CFM	KW	OPTIONS
(E)EDH-1, 2	LOBBY	RETAIL	20" x 10" x 5"	208/3/60	-	468	1500	5	PROVIDE AC, BLE, HEC, N1, PDN, SCR, SF AND TF AND TR.

NOTES:
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 2. COORDINATE WITH ELECTRICAL CONTRACTOR.
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 4. CLEAN EACH COIL PRIOR TO COMPLETION OF CONSTRUCTION.

FILTER BOX

DESIGNATION	LOCATION	PRE-FILTER							FILTER							HOUSING					
		MANUF. MODEL NUMBER	CFM	TYPE	MERV	QUANTITY	SIZE H x W x D (INCHES)	VELOCITY	PRESSURE DROP IN WG (CLEAN)	TYPE	MODEL	EFFICIENCY	QUANTITY	SIZE (NOMINAL)	VELOCITY	PRESSURE DROP IN WG (CLEAN)	MODEL	CONFIGURATION (HxW)	DIMENSIONS (HxWxD)	QUANTITY	REMARKS
FB-1	SECOND FLOOR	ENDUROPLEAT	800	PEALTED PANEL PRE-FILTER	8	1	24X12X2	400	0.16	HEGA-2000	AEROSTAR HEGA	99%	1	24x12x2	400	0.3	INNERSEAL	1H x 0.5W	26-7/8" x 14-1/8" x 22-1/4"	1	SEE NOTES

NOTES:
 1. PROVIDE 24"x24" ACCESS PANEL FOR FILTER REPLACEMENTS.



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 PROJECT NO: 24.20126.000
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 04/21/2025 80% SUBMISSION
 05/02/2025 ISSUE FOR PERMIT
 2 08/01/2025 PERMIT AMENDMENT

MECHANICAL SCHEDULES

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