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PROJECT
**FORGE
CONSTRUCTION**

1710 WALNUT STREET
KANSAS CITY, MO 64108

MARK	DATE	DESCRIPTION
1	03.11.25	ADDENDUM 01
2	03.28.25	CITY COMMENTS / ADDENDUM 02

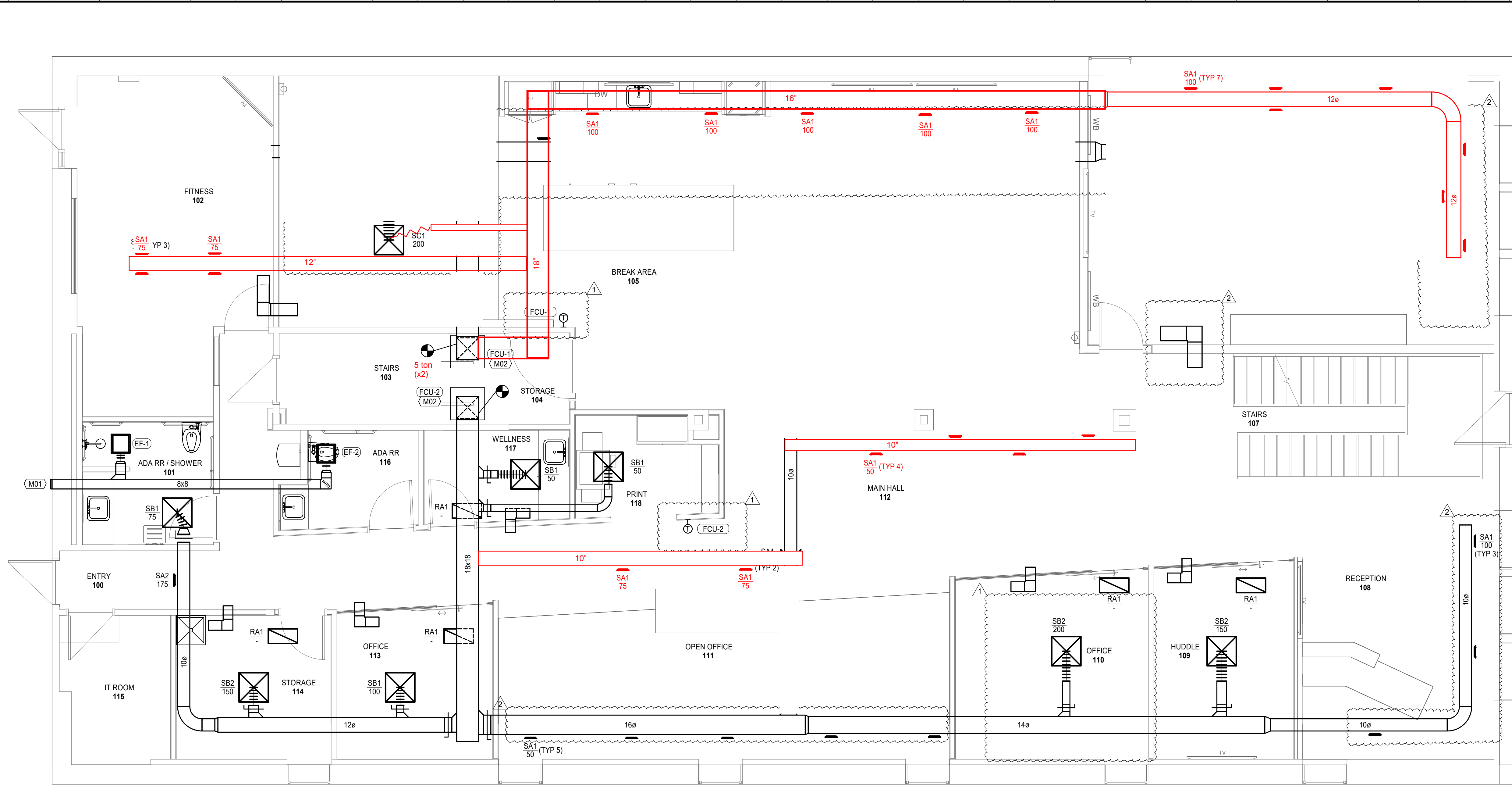
SHEET TITLE
**FIRST FLOOR PLAN -
MECHANICAL NEW
WORK**

PROJECT NUMBER
0430124.005
SHEET AUTHOR
IOH
CHECKED BY
GJF
DATE
MARCH 10 2025

PERMIT SET

SHEET NUMBER
M100

Lankford + Fendler
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L/F #4 Project No. 247681.00



FIRST FLOOR PLAN - MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"

FLOOR PLAN NOTES

- M01 TERMINATE EXHAUST DUCT AT EXTERIOR WALL WITH WALL CAP.
- M02 EXISTING FAN COIL UNIT TO REMAIN.



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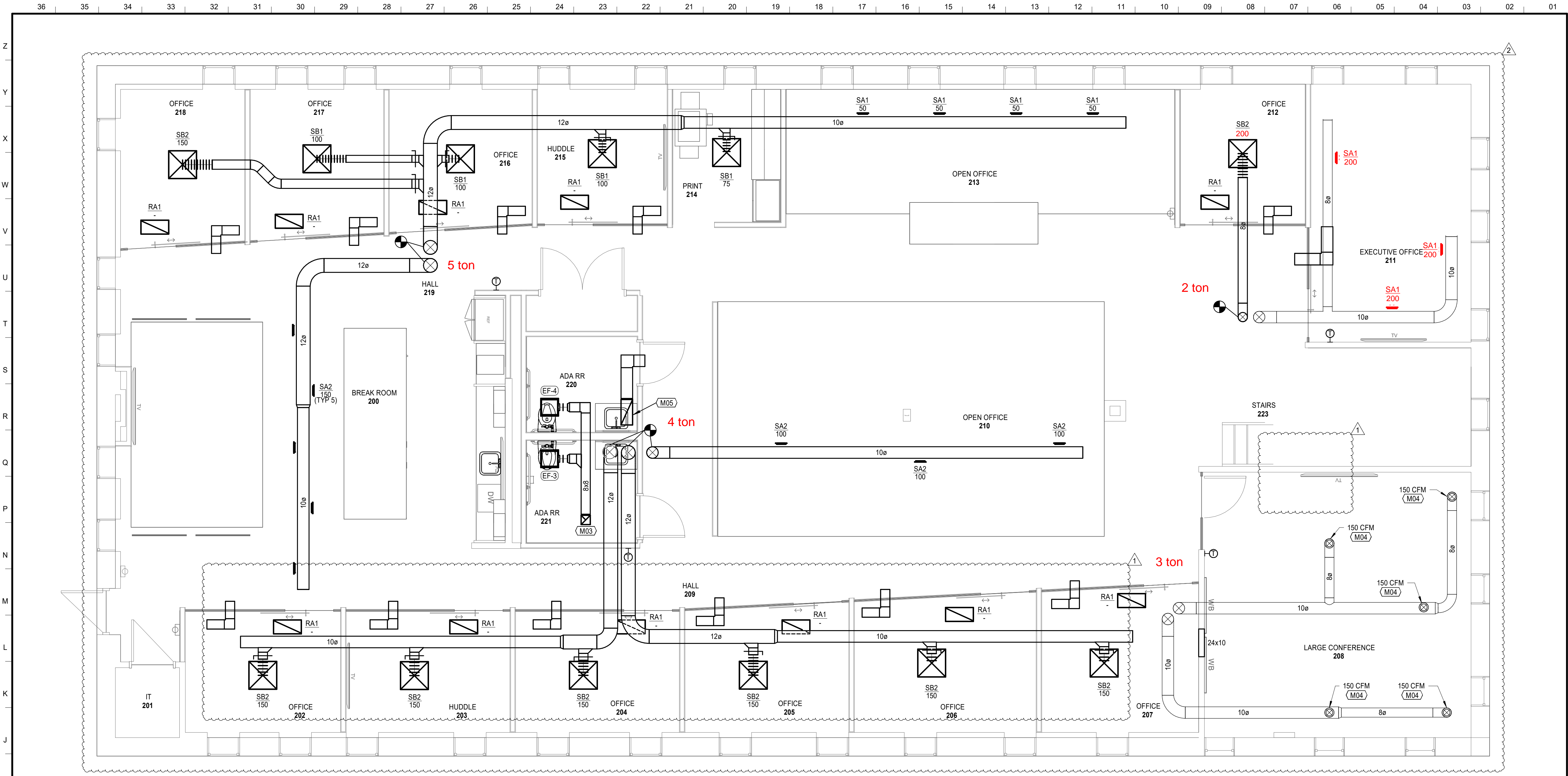
SHEET TITLE
SECOND FLOOR PLAN - MECHANICAL NEW WORK

PROJECT NUMBER
0430124.005
SHEET AUTHOR
IOH
CHECKED BY
GJF
DATE
MARCH 10 2025

PERMIT SET

SHEET NUMBER
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SECOND FLOOR PLAN - MECHANICAL NEW WORK
SCALE: 1/4" = 1'-0"

FLOOR PLAN NOTES

- M03 8x8 EXHAUST DUCT UP THROUGH ROOF.
- M04 REBALANCE EXISTING DIFFUSER TO CFM INDICATED.
- M05 14x10 RETURN AIR DUCT MANIFOLD. MODIFY AS REQUIRED TO COLLECT ALL EXISTING RETURN AIR DROPS.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	S.P. (IN W.G.)	SONES	RPM	DRIVE	WATTS	NOTES	ELECTRICAL										
											VOLT	PHASE	HZ	FLA	MCA	MOPP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	EM POWER	NOTES
EF-1	GREENHECK	SP-A390-VG	CEILING	125	0.5	4	1234	DIRECT	26	1	208	1	60.00	-	-	-	-	-	-	-	-
EF-2	GREENHECK	SP-A390-VG	CEILING	75	0.5	3.5	1194	DIRECT	21	1	208	1	60.00	-	-	-	-	-	-	-	-
EF-3	GREENHECK	SP-A390-VG	CEILING	75	0.5	3.5	1194	DIRECT	21	1	208	1	60.00	-	-	-	-	-	-	-	-
EF-4	GREENHECK	SP-A390-VG	CEILING	75	0.5	3.5	1194	DIRECT	21	1	208	1	60.00	-	-	-	-	-	-	-	-

NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, SPEED CONTROLLER, AND STANDARD GRILLE.

NOTES: A.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	MOUNTING LOCATION	FACE SIZE (IN.)	NECK SIZE (IN.)	COLOR	NOTES
SA1	PRICE	SDG	DUCT	10x4	8x2	WHITE	1
SA2	PRICE	SDG	DUCT	10x6	8x4	WHITE	1
SB1	PRICE	SPD	LAY-IN	24x24	6	WHITE	2
SB2	PRICE	SPD	LAY-IN	24x24	8	WHITE	2
SC1	PRICE	SPD	SURFACE	24x24	8	WHITE	2
RA1	PRICE	PDDR	LAY-IN	24x12	22x10	WHITE	-

NOTES: 1. PROVIDE WITH OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
2. FRAME TYPE TO MATCH CEILING CONSTRUCTION - COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

GENERAL NOTES (TYPICAL ALL SHEETS)

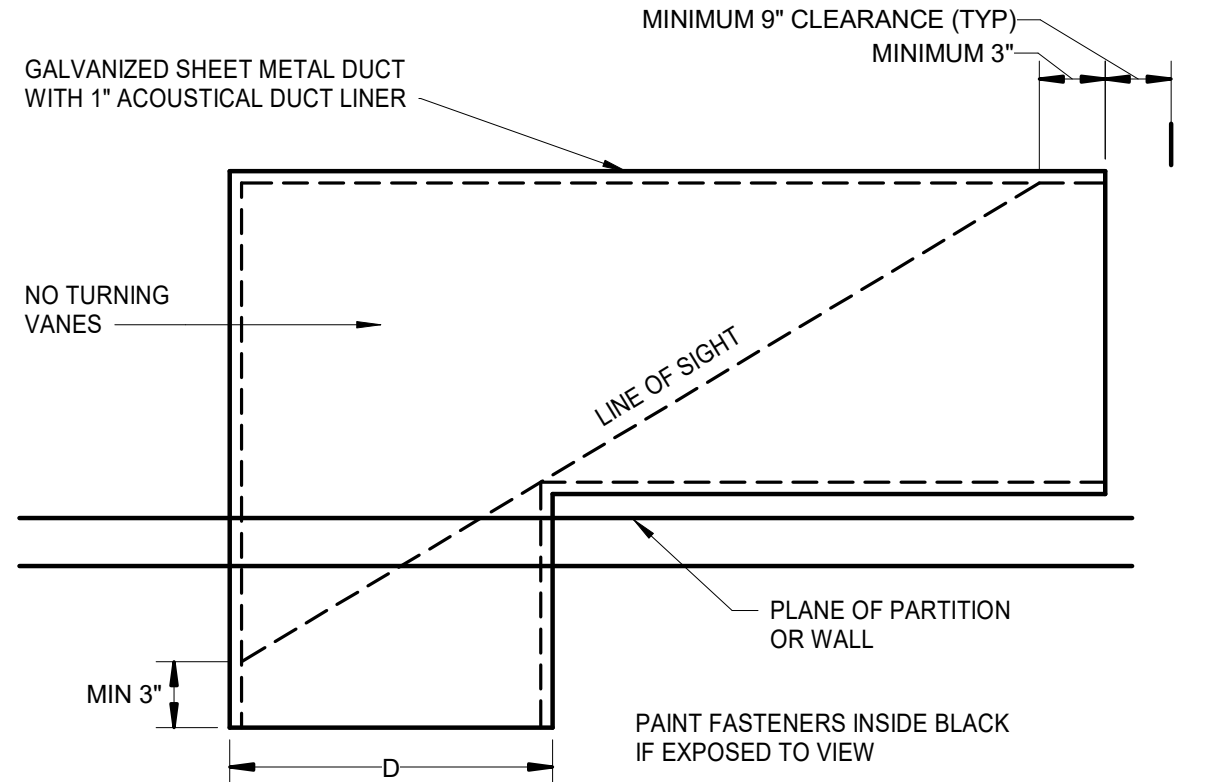
- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- D. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
- E. MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- F. ALL REMOVED DEVICES THAT ARE BEING REUSED FOR NEW CONSTRUCTION SHALL BE CLEANED OF ALL DIRT AND STORED ON SITE.
- G. MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFM'S SHOWN ON PLANS.
- H. ALL THERMOSTATS SHALL BE MOUNTED TO MATCH BUILDING STANDARDS UNLESS OTHERWISE NOTED.
- I. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- J. MECHANICAL CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.
- K. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- L. ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 25/50 FLAME AND SMOKE RATED, HELLERMANN TYTON T50R2C2UL OR EQUIVALENT.

FIRE STOPPING REQUIREMENTS

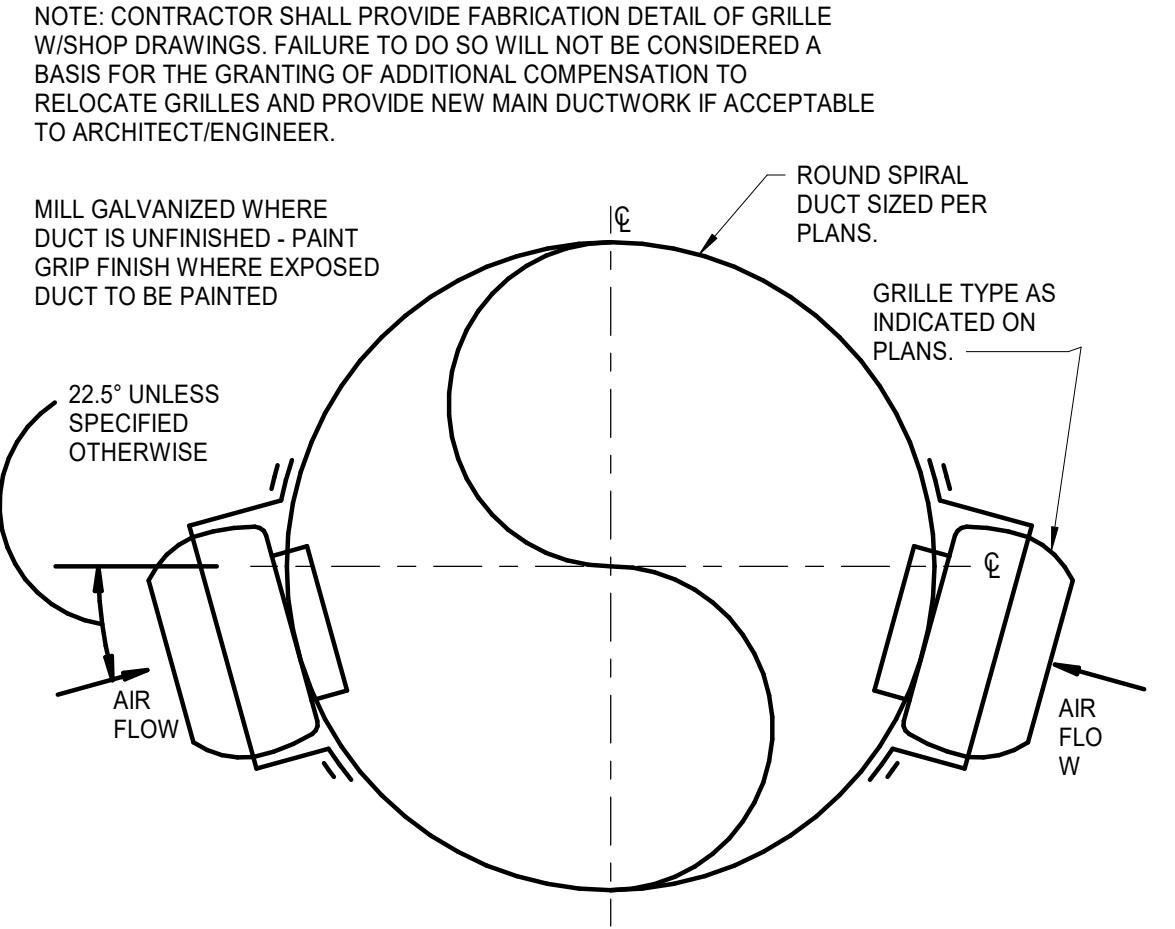
CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

MECHANICAL SYMBOLS

- THERMOSTAT
- EQUIPMENT TYPE AND DESIGNATION
- TYPE MARK: (S.) SUPPLY, (R.) RETURN, (E.) EXHAUST
- DIFFUSER OR GRILLE TYPE MARK AND CFM
- CFM
- CONNECT TO EXISTING



HORIZONTAL "L" RETURN BOOT DETAIL
NOT TO SCALE



SPIRAL DUCT SUPPLY DIFFUSER DETAIL
NOT TO SCALE

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816 502 1500
WWW.PAD.STUDIO



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MECHANICAL SCHEDULES, GENERAL NOTES, & SYMBOLS

PROJECT NUMBER
0430124.005
SHEET AUTHOR
JOH
CHECKED BY
GJF
DATE
MARCH 19 2025

PERMIT SET

SHEET NUMBER
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