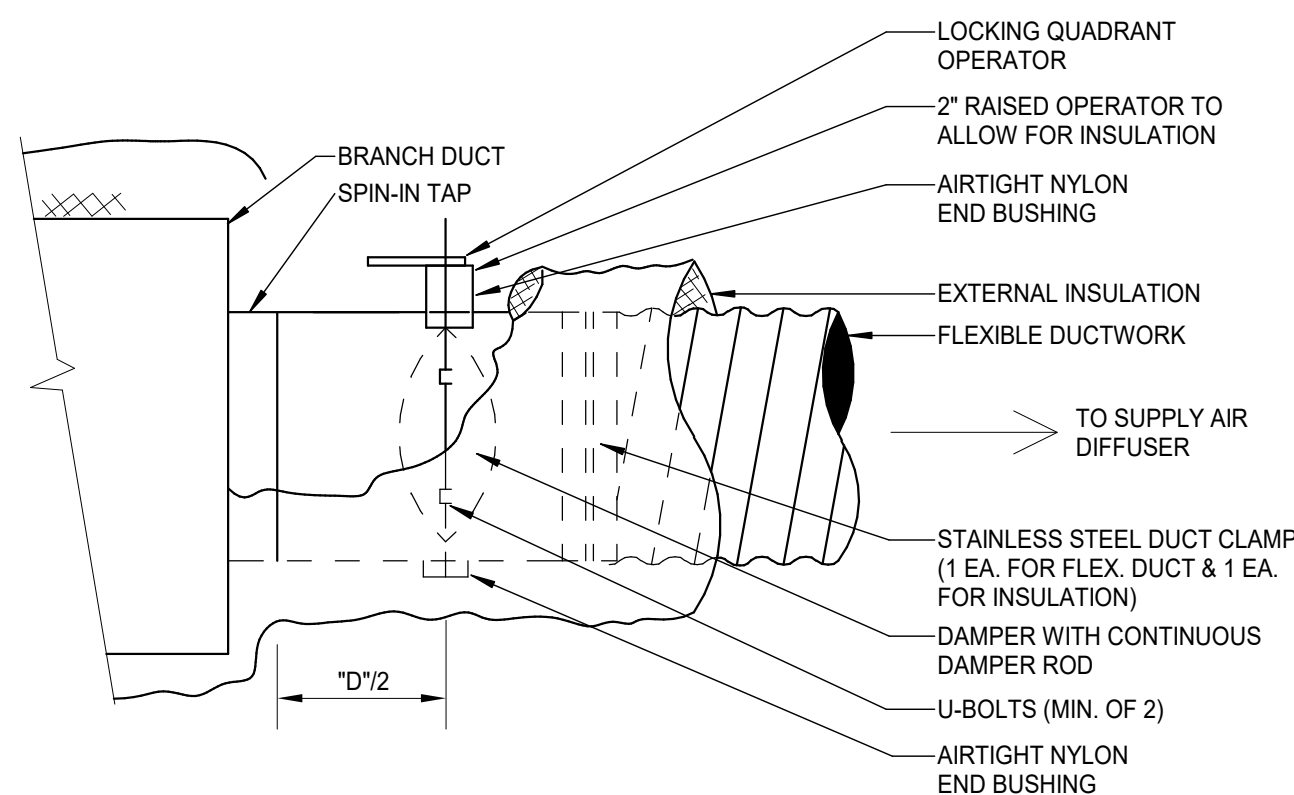
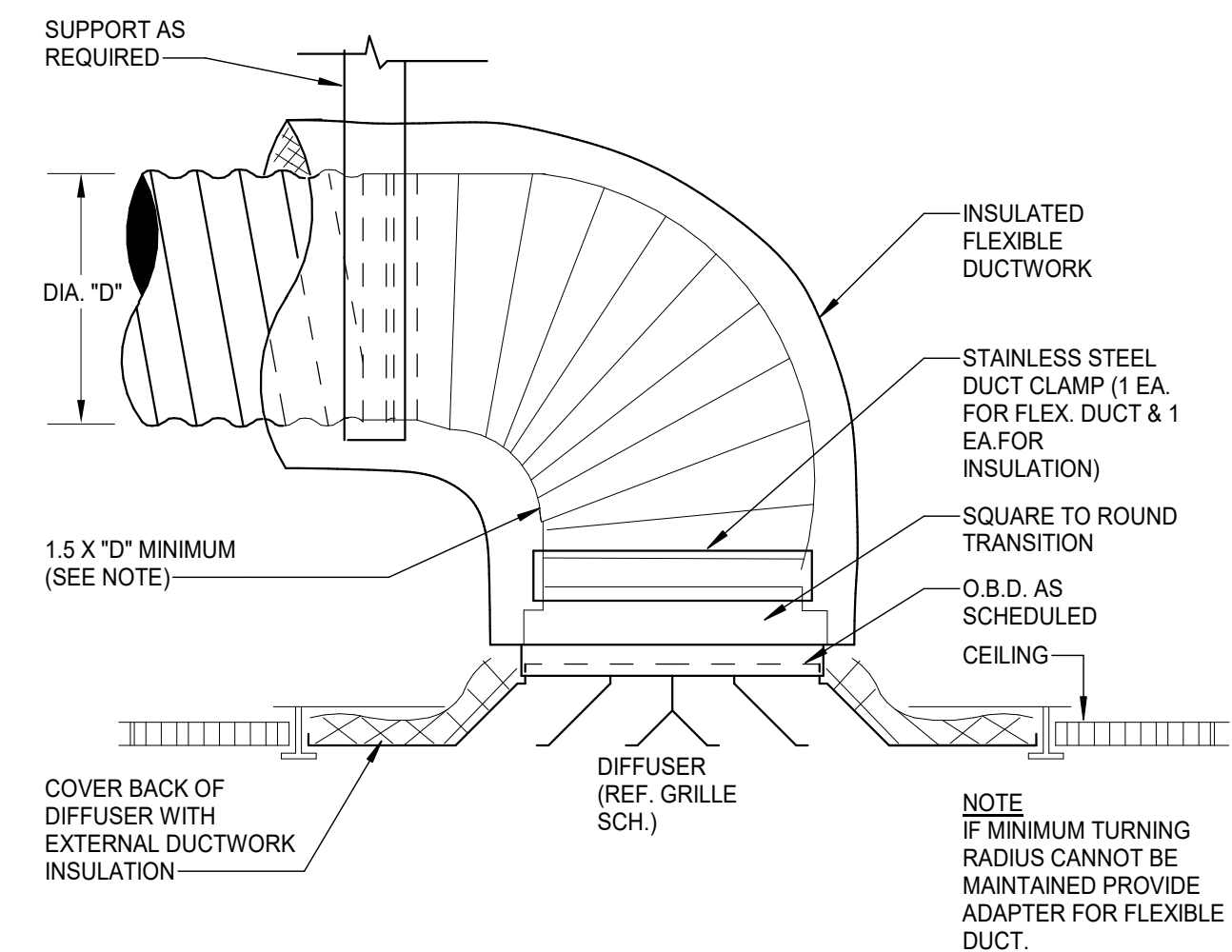


5 REGISTER SIZING
Scale: NONE

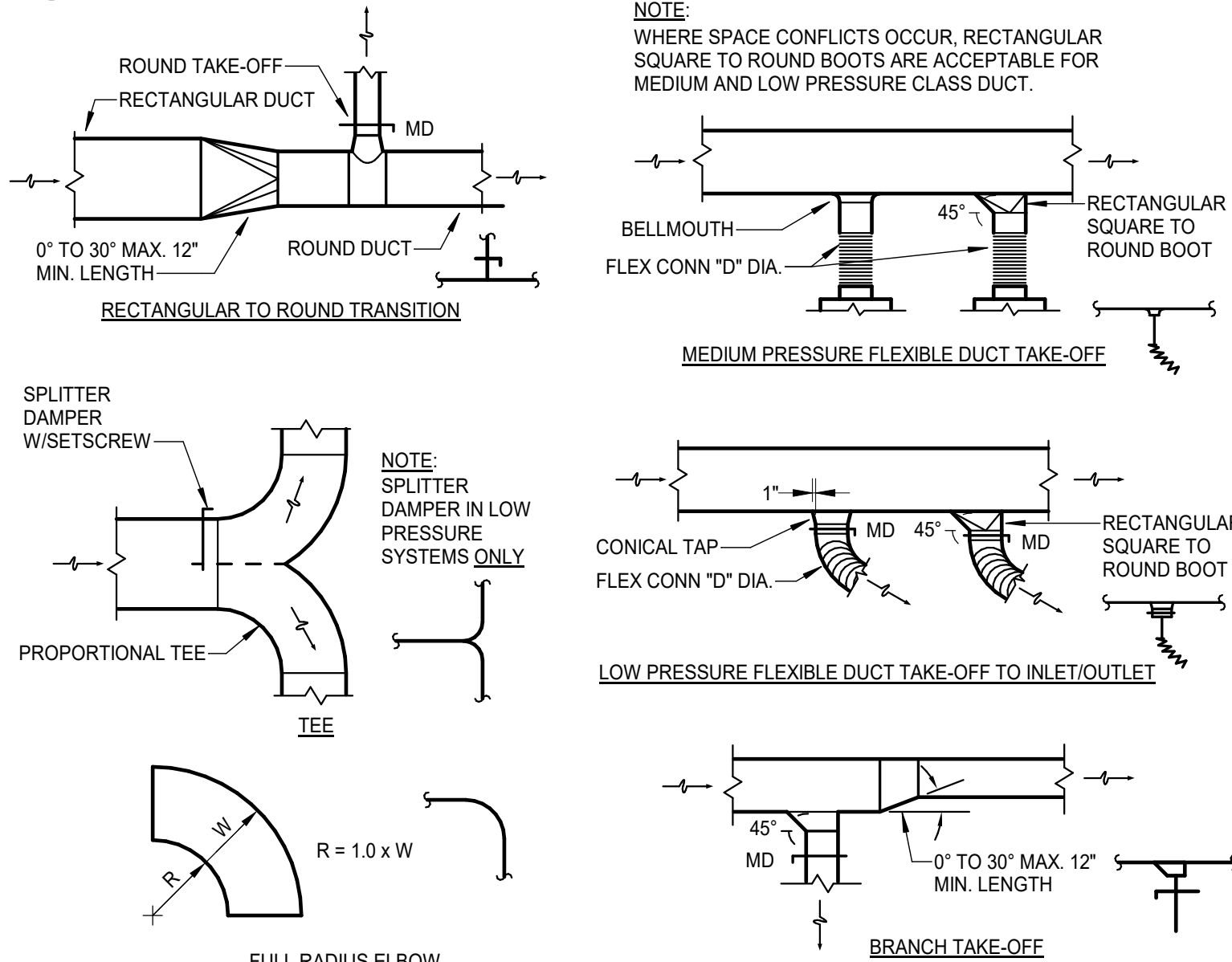
4 DIFFUSER SIZING
Scale: NONE



3 FLEXIBLE DUCT TAP - SPIN-IN
Scale: NONE



2 FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
Scale: NONE



1 STANDARD DUCT CONSTRUCTION
Scale: NONE

NOTE: UNLESS NOTED OTHERWISE ALL MITERED 90 DEGREE ELBOWS SHALL HAVE TURNING VANES. 45 DEGREE ELBOWS SHALL NOT HAVE TURNING VANES.

MECHANICAL SPECIFICATIONS

GENERAL

- PERFORM WORK IN ACCORDANCE WITH APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
- OBTAIN ALL PERMITS REQUIRED.
- CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS ELEMENTS OF WORK. DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS.
- GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT. DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL, EQUIPMENT OR WORKMANSHIP. AT THE OWNER'S OPTION, REPLACEMENT OF FAILED PARTS OR EQUIPMENT SHALL BE PROVIDED.
- IMMEDIATELY PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, REPLACE AIR FILTERS.
- PROVIDE EQUIPMENT HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED AND GROUND MOUNTED HVAC EQUIPMENT, AND AS SHOWN ON THE DRAWINGS. CONCRETE PADS ARE TO BE 4\"/>

MECHANICAL ALTERATIONS

- INSPECT AND SERVICE EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN OR TO BE REUSED.
- DISPOSAL OF EQUIPMENT, MATERIALS, OR HOUSEKEEPING PADS TO BE ABANDONED. PRIOR TO DISPOSAL, THE CONTRACTOR SHALL VERIFY WITH THE OWNER WHAT IS TO BE SALVAGED BY THE OWNER AND WHAT IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
- HANDLING OF EQUIPMENT AND MATERIALS TO BE REMOVED.
- INSPECTION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE INSPECTED FOR DAMAGED OR MISSING PARTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING. ACCORDINGLY, IF USING MATERIALS SPECIFIED OR SHOWN ON THE DRAWING Voids OR DIMINISHES THE WARRANTY OR OPERATION OF REMAINING EQUIPMENT OR SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED.
- APPLICATION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE CLEANED AND RECONDITIONED, INCLUDING CLEANING OF PIPING SYSTEMS AND HVAC COILS PRIOR TO INSTALLATION AND REUSE. MATERIAL AND EQUIPMENT REMOVED THAT IS NOT TO BE SALVAGED FOR OWNER'S USE OR FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE. MATERIAL OR EQUIPMENT SALVAGED FOR OWNER'S USE SHALL BE CAREFULLY HANDLED AND STORED WHERE DIRECTED BY THE OWNER OR THE ARCHITECT/ENGINEER. RELOCATE MATERIAL AND / OR EQUIPMENT AS DIRECTED BY OWNER. MATERIALS AND EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED SHALL BE RECONNECTED TO THE NEW SYSTEM. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE.
- SEQUENCE AND SCHEDULE: COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY, ARCHITECT AND OWNER. REMOVE CONCRETE HOUSEKEEPING PAD WHERE MATERIALS OR EQUIPMENT HAVE BEEN REMOVED.

DUCTWORK

- DUCT MATERIAL AND CONSTRUCTION: USE LOCK FORMING QUALITY PRIME GALVANIZED STEEL SHEETS OR COILS UP TO 60\"/>

DUCTWORK INSULATION

- FURNISH AND INSTALL EXTERNAL INSULATION ON SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTWORK.
- ALL DUCT INSULATION USED ON THE PROJECT INSIDE THE BUILDING MUST HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 AS DETERMINED BY TEST PROCEDURES ASTM E84, NFPA 255 AND UL 723.
- CONDENSATION ON ANY INSULATED SYSTEM IS NOT APPROVED.
- WHERE EXISTING INSULATED DUCTWORK OR OTHER SERVICES ARE TAPPED, REMOVE EXISTING INSULATION BACK TO UNDAIMAGED SECTIONS AND REPLACE WITH NEW INSULATION OF THE SAME TYPE AND THICKNESS AS EXISTING INSULATION.
- INSULATION: GLASS FIBER BLANKET DUCT INSULATION. ACCEPTABLE MANUFACTURERS ARE: MANVILLE R-SERIES MICROLITE FSKL, OWENS-CORNING ED100 RKF, KNAUF 1.0 PCF FSK.
- REINFORCED FOIL TAPE: ACCEPTABLE MANUFACTURERS ARE: VENTURE 1525CW, 3\"/>

AIR DEVICES

- FURNISH AND INSTALL AIR DISTRIBUTION DEVICES, INCLUDING GRILLES, DIFFUSERS, REGISTERS, DAMPERS, AND EXTRACTORS.
- ACCEPTABLE MANUFACTURERS: TUTTLE AND BAILEY, TITUS, KRUEGER, METAL-AIRE, NAILOR INDUSTRIES, PRICE

AIR FILTERS

- AIR FILTERS: FURNISH AND INSTALL A DISPOSAL MEDIA AND FRAME FILTER WITH RESISTANCE TO AIR FLOW OF A CLEAN FILTER NOT TO EXCEED 0.12\"/>

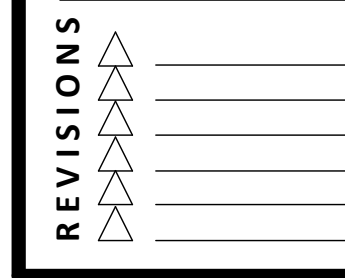
GENERAL NOTES:

- INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE MECHANICAL SYSTEMS UNTIL THE OWNER IS FULLY PREPARED TO OPERATE AND MAINTAIN THE MECHANICAL SYSTEM. HOWEVER, LENGTH OF INSTRUCTION TIME SHALL BE LIMITED TO ONE DAY.
- EQUIPMENT, MATERIALS AND LABOR REQUIRED BY THESE CONTRACT DRAWINGS SHALL BE GUARANTEED TO BE FREE FROM DEFECTIVE MATERIALS OR WORKMANSHIP FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT UNLESS SPECIFIED OTHERWISE. DEFECTIVE MATERIALS OR WORKMANSHIP OCCURRING DURING THIS PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST.
- GENERAL CONTRACTOR TO VERIFY THE FINAL LOCATION OF ALL THERMOSTATS, TEMPERATURE SENSORS, PANELS AND CONTROL INSTRUMENTS WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- GENERAL CONTRACTOR TO VERIFY WALL OPENINGS WITH STRUCTURE, LOCATIONS OF NEW AND EXISTING EQUIPMENT AND ROUTE OF DUCTWORK WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS TO COORDINATE THE EXACT LOCATIONS OF DIFFUSERS, REGISTERS, GRILLES, PIPING AND OTHER MECHANICAL EQUIPMENT WITH CEILING GRID, LIGHTS, BEAMS AND OTHER BUILDING COMPONENTS.
- CEILING GRID AND OTHER ITEMS SHALL NOT BE SUPPORTED FROM OR IN CONTACT WITH MECHANICAL EQUIPMENT. CONDUIT, WIRING, PIPING AND SUPPORTS SHALL NOT BE LOCATED IN FRONT OF FAN COIL ACCESS PANELS.
- DUCTWORK AND PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL PANELS WHEN SHOWN NEAR PANELS OR OVER ELECTRICAL ROOMS.
- MATERIAL AND INSTALLATION SHALL COMPLY WITH LOCAL CODES, APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION, LOCAL UTILITY REGULATIONS AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS REQUIRED TO MOUNT MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- ALL DUCTWORK TRANSITIONS AND PIPING INCREASERS/REDUCERS SHALL BE PROVIDED AS REQUIRED FOR EQUIPMENT CONNECTIONS. SEE MANUFACTURERS DATA FOR ACTUAL DUCTWORK AND PIPING CONNECTION SIZES AND LOCATIONS.
- PROVIDE AIR DEFLECTORS IN ALL SUPPLY AIR DUCTWORK SQUARE ELBOWS.
- DUCTWORK AND PIPING LAYOUTS ARE FOR DIAGRAMMATICAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEASURING AND COORDINATING ALL DUCTWORK AND PIPING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL OFFSETS AS REQUIRED TO MEET THE INTENT OF THE DESIGN DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER.
- THE GENERAL CONTRACTOR SHALL SEAL AND FLASH ALL WALL, ROOF, AND FLOOR PENETRATIONS AIRTIGHT AND WATERTIGHT AT EACH PIPE, DUCTWORK AND CONDUIT PENETRATION. PROVIDE AIRTIGHT SEAL BETWEEN ALL FIRE PARTITION AND OR WALL PENETRATIONS WITH UL APPROVED FIRE-RESISTANT MATERIAL MATCHING OR EXCEEDING THE PENETRATED FIRE PARTITION AND OR WALLS RATING.
- ALL CUTTING AND PATCHING FOR THE INSTALLATION OF NEW WORK IN EXISTING BUILDING SHALL BE DONE BY THE GENERAL CONTRACTOR.
- PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN THE SUPPLY AND RETURN DUCTS FROM ALL AIR UNITS AND AT BUILDING EXPANSION JOINTS. FLEXIBLE CONNECTIONS SHALL BE WEATHERTIGHT WHEN EXPOSED.

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
#	KEY NOTE TAG
▲	REVISION TAG
■	NEW EQUIPMENT
DUCTWORK	
▬	SUPPLY AIR DUCTWORK
▬	RETURN AIR AND OUTSIDE AIR DUCTWORK
▬	EXHAUST AIR DUCTWORK
++++	FLEXIBLE DUCTWORK
▬	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
▬	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
▬	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
SENSORS	
⊙	THERMOSTAT AND TEMPERATURE SENSOR
AIR DEVICES	
⊙	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
⊙	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
⊙	RETURN AIR GRILLE
⊙	EXHAUST AIR GRILLE
⊙	SUPPLY AIR SIDEWALL GRILLE
⊙	RETURN AIR SIDEWALL GRILLE
⊙	RETURN AIR OPENING ABOVE CEILING
RENOVATIONS	
⊙	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
□	ITEM TO BE REMOVED
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BOD	BOTTOM OF DUCT
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
DIA	DIAMETER
ESP	EXTERNAL STATIC PRESSURE
F	FAHRENHEIT
IN	INCHES
R	RADIUS
RH	RELATIVE HUMIDITY
TSTAT	THERMOSTAT
TYP	TYPICAL
WB	WET BULB TEMPERATURE

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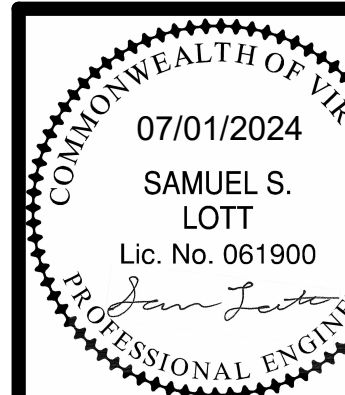


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SECOND FLOOR RENOVATION FOR
LEWIS GALE MEDICAL CENTER
1900 ELECTRIC ROAD SALEM, VIRGINIA 24153

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MECHANICAL
GENERAL NOTES,
DETAILS,
SPECIFICATIONS,
AND SYMBOLS



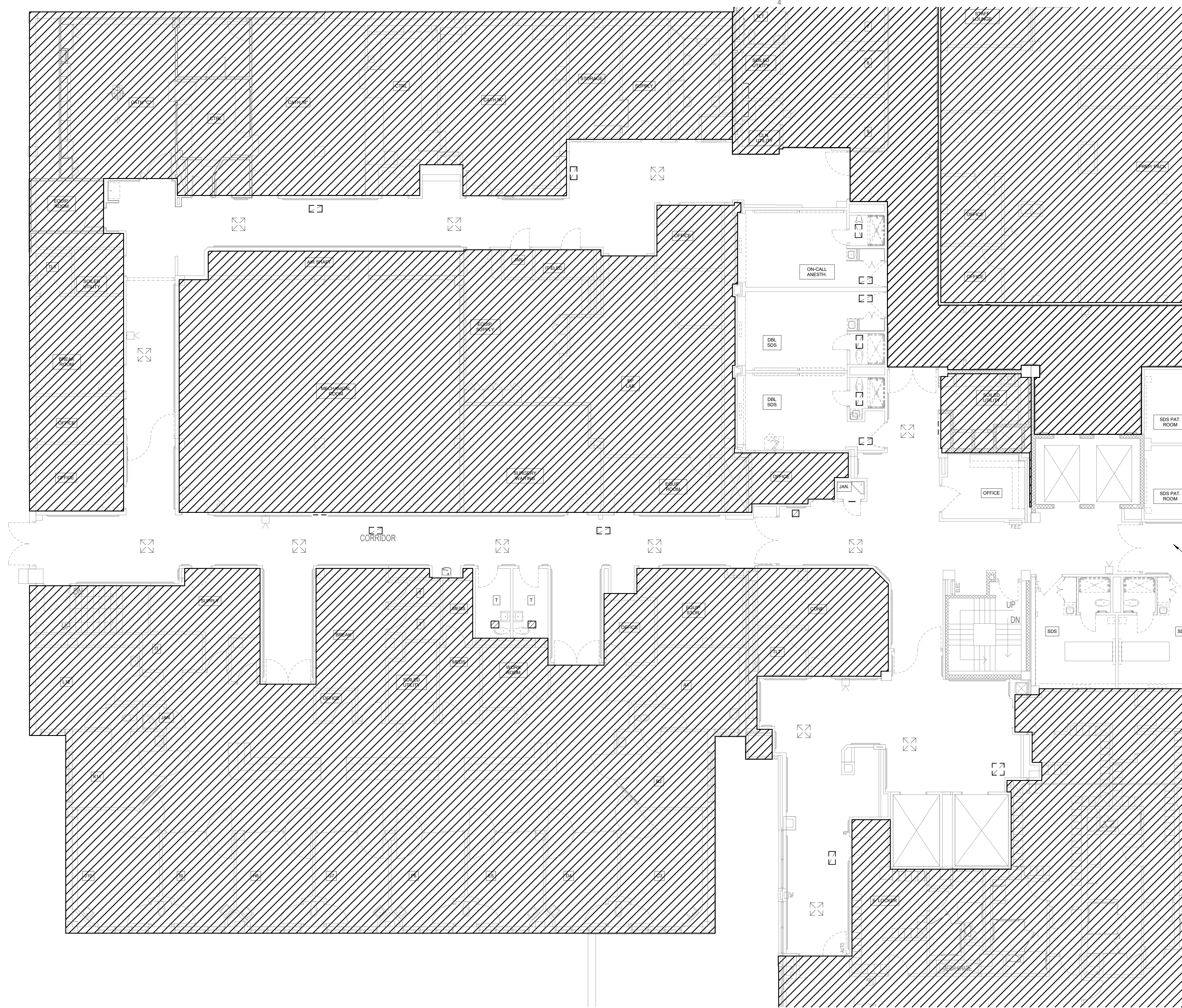
Salas O'Brien

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COMMISSION No.
24016
SHEET
MO-1

Project Number: 2024-01904

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GENERAL SHEET NOTES:

1. ALL EXISTING CEILING AIR DEVICES AND ASSOCIATED FLEX DUCT SHALL BE DEMOLISHED AND THE CONNECTION AT THE DUCT SHALL BE CAPPED AND PREPARED FOR FUTURE CONNECTION.
2. ALL EXISTING SIDEWALL AIR DEVICES SHALL BE DEMOLISHED AND THE CONNECTION AT THE DUCT SHALL BE CAPPED AND PREPARED FOR FUTURE CONNECTION. THE EXISTING WALL SHALL BE REPAIRED WHERE DAMAGED DURING DEMOLITION.
3. THE CONTROLS CONTRACTOR SHALL FIELD VERIFY ALL PNEUMATIC CONTROLS THAT ARE TO BE DEMOLISHED AND REPLACED WITH DIGITAL CONTROLS WITHIN THE AREA OF THE SCOPE OF WORK, AS DENOTED ON THE DRAWINGS. ALL EXISTING CONTROL SEQUENCES SHALL BE MAINTAINED.
4. THE CONTRACTOR SHALL EXAMINE ALL EXISTING DUCTWORK INSULATION. ANY EXISTING DUCTWORK INSULATION THAT IS TORN, RIPPED, MISSING OR DAMAGED IN ANYWAY SHALL BE REPAIRED OR REPLACED DURING NEW CONSTRUCTION.
5. ALL EXISTING EXHAUST FANS SHALL BE DEMOLISHED AND THE CONNECTION AT THE DUCT SHALL BE CAPPED AND PREPARED FOR FUTURE CONNECTION.

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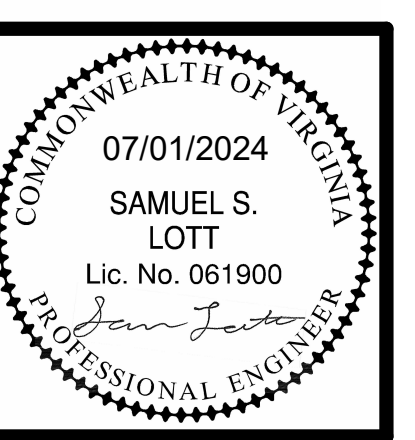
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MECHANICAL SECOND FLOOR PHASE 1 DEMOLITION FLOOR PLAN



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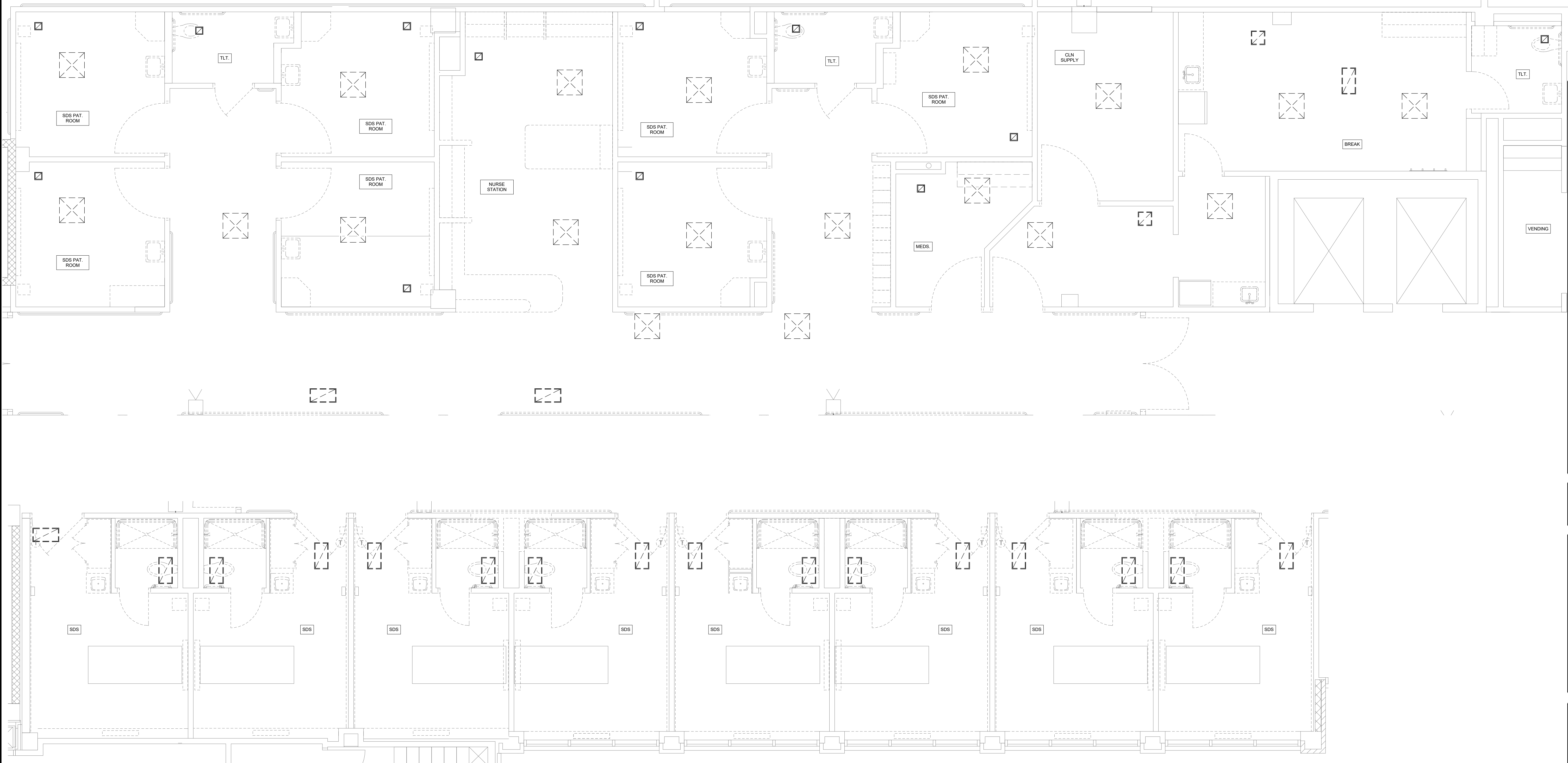
1 MECHANICAL SECOND FLOOR PHASE 1 DEMOLITION FLOOR PLAN
 Scale: 1/8" = 1'-0"

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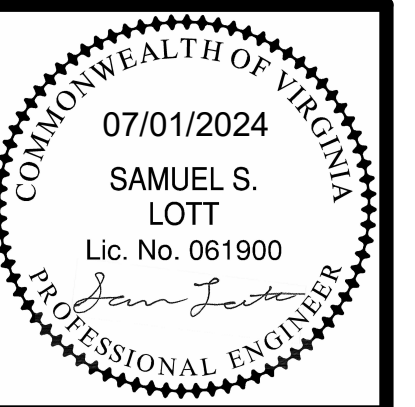
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MECHANICAL
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PHASE 3
DEMOLITION
FLOOR PLAN

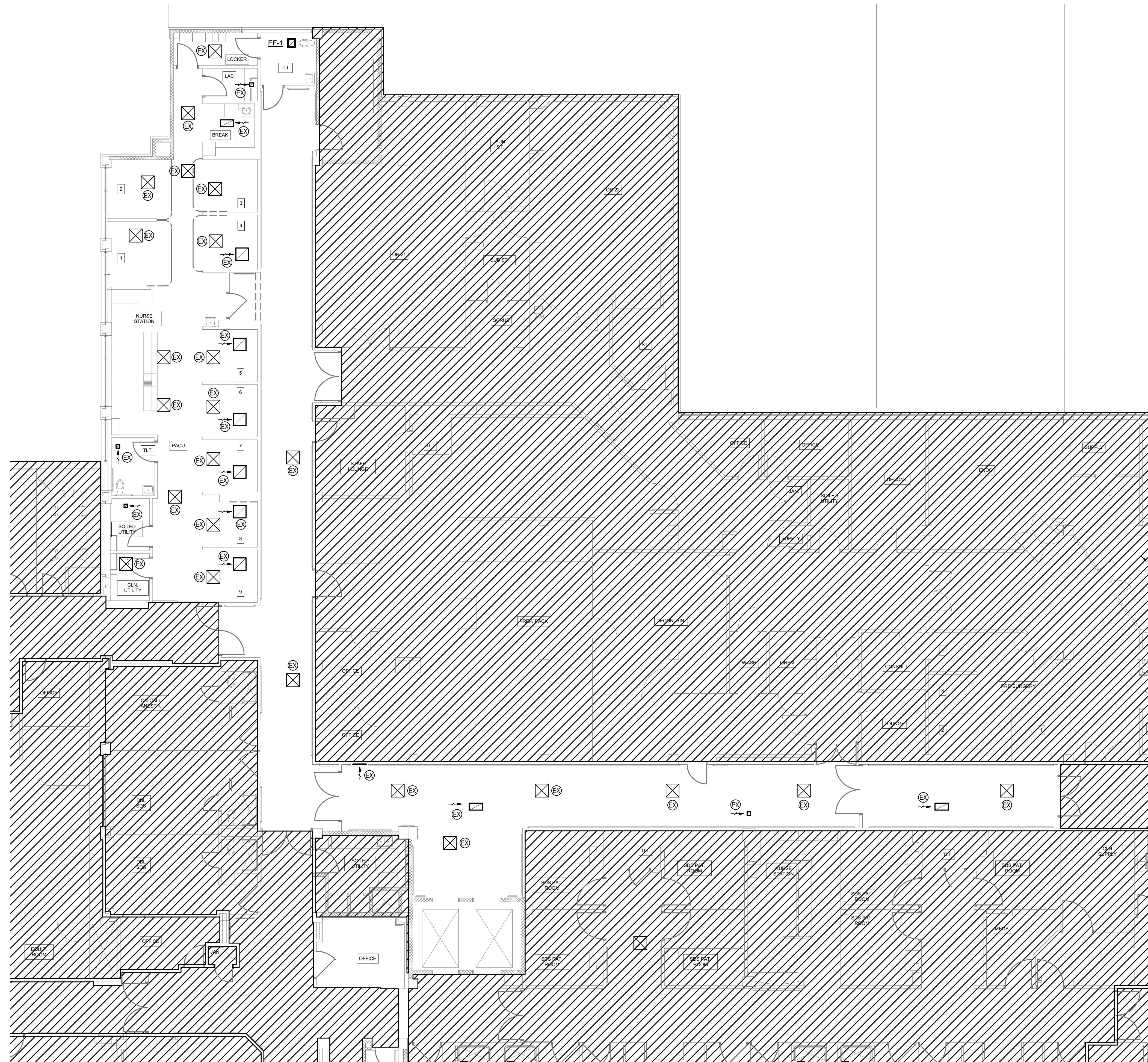


1 MECHANICAL SECOND FLOOR PHASE 1 DEMOLITION FLOOR PLAN
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HASHED AREA IS NOT INCLUDED IN PHASE CONSTRUCTION.

GENERAL SHEET NOTES:

1. INSTALL NEW CEILING AIR DEVICE AND EXTEND NEW FLEX DUCT OR HARD DUCT AS NECESSARY TO CONNECT TO EXISTING DUCT MAIN.
2. INSTALL NEW WALL MOUNTED AIR DEVICE AND EXTEND NEW HARD DUCT AS NECESSARY TO CONNECT TO EXISTING DUCT MAIN.
3. ANY EXISTING GRILLES, REGISTERS, OR DIFFUSER NOT DOCUMENTED ON THESE DRAWINGS BUT EXISTS WITHIN THE SCOPE OF WORK SHALL BE REPLACED IN KIND AND AIR BALANCED INTO THE CONNECTED EXISTING SYSTEM. COORDINATE FINAL COLOR SELECTION WITH THE ARCHITECT.
4. THE CONTROLS CONTRACTOR SHALL PROVIDE NEW DIGITAL TEMPERATURE CONTROLS WITHIN THE SCOPE OF WORK. THE CONTROLS CONTRACTOR SHALL VERIFY THAT THE EXISTING CONTROLS SEQUENCES HAVE BEEN MAINTAINED. CONTRACTOR SHALL INSPECT AND REPLACE ALL ISOLATION AND CONTROLS VALVES IN THE PATIENT ROOMS WITHIN THE RELATED SCOPE OF WORK.
5. REPLACE EXISTING EXHAUST FANS WITH NEW EXHAUST FANS IN KIND AND EXTEND NEW HARD DUCT AS NECESSARY TO CONNECT TO EXISTING DUCT MAIN.

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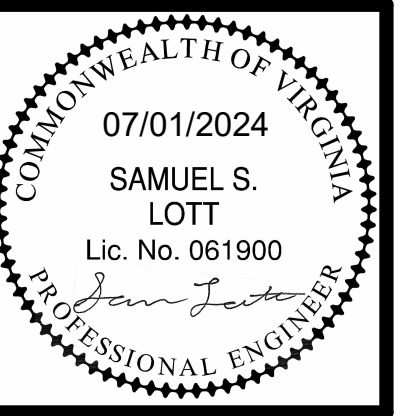
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MECHANICAL
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PHASE 2 NEW
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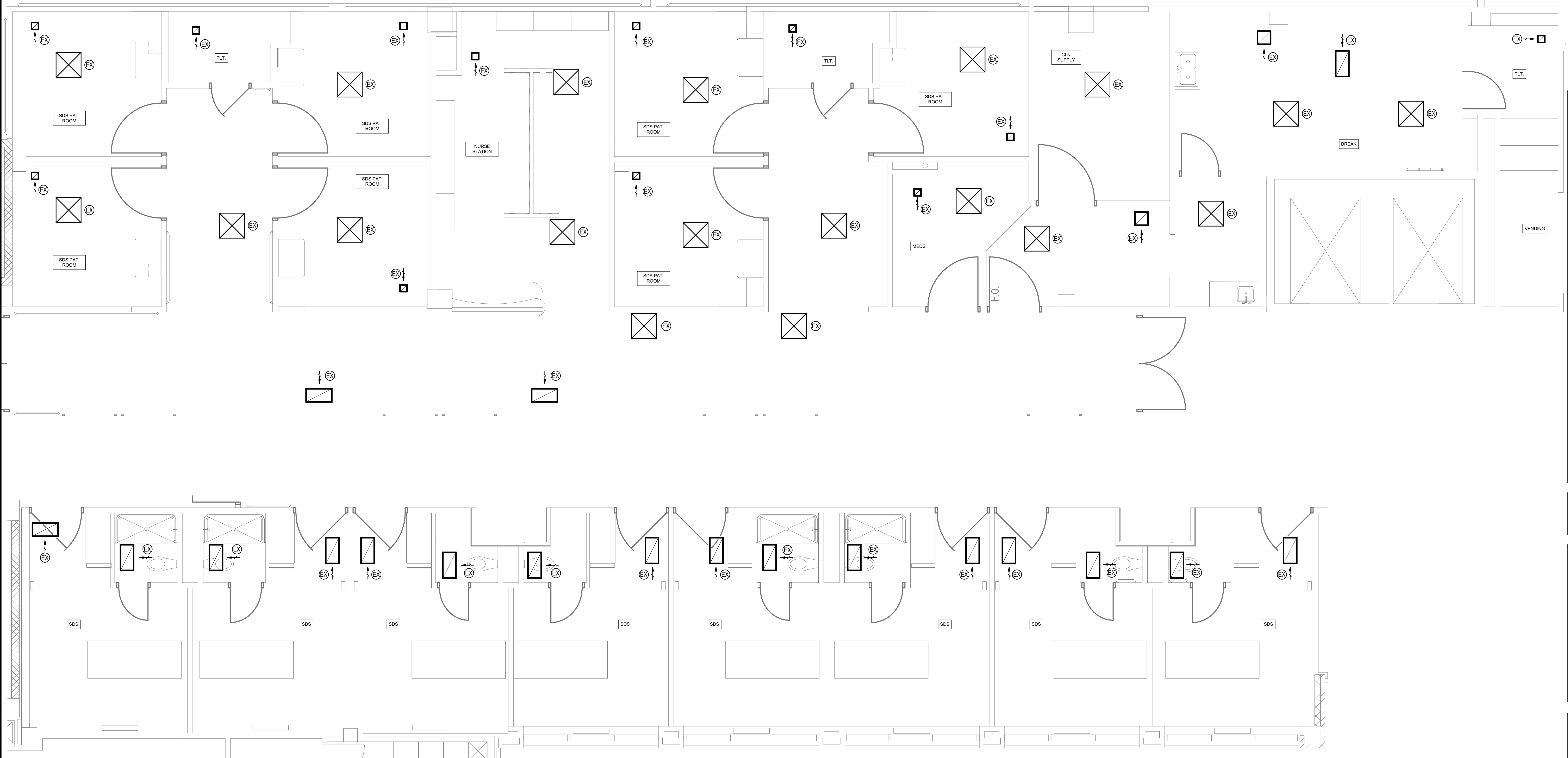
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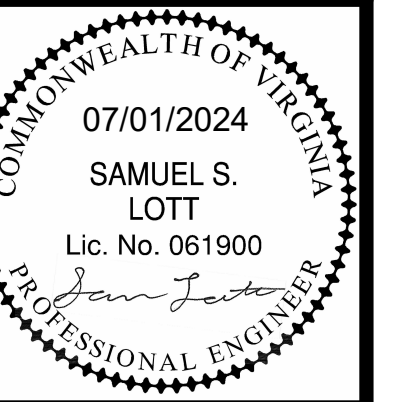
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MECHANICAL
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1 MECHANICAL SECOND FLOOR PHASE 3 NEW FLOOR PLAN
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