



HCA - LEE'S SUMMIT MEDICAL CENTER LAB & PHARMACY RENOVATION

2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

DGL PROJECT NO. 6406.24.0001 DATE: 02/09/2026
HCA PROJECT NO. 0972400009

HCA DESIGN MANAGER: MIKAL MALIK
HCA CONSTRUCTION MANAGER: ERIC SJODIN

SUBMITTALS:	DATE:
CITY & STATE - 1 ST REVIEW	05/23/2025
DESIGN COORDINATION	07/17/2025
<u>ASI-002 - DESIGN COORDINATION</u>	<u>02/09/2026</u>

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GENERAL NOTES - ALL HVAC SHEETS

- A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.
- B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
- C. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
- D. COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.
- E. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.
- F. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.
- G. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.
- H. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
- I. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS AND WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK.
- J. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
- K. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- L. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
- M. ALL CONNECTION BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
- N. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
- O. ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO DAMAGE.
- P. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.
- Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.
- R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
- S. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- T. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- U. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- V. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE HOSPITAL REPRESENTATIVE.
- W. DUCT SIZES ARE NET FREE AREA.
- X. PROVIDE ROUND DUCTS TO ALL AIR DEVICES UNLESS NOTED OTHERWISE. DUCT SIZE SHALL MATCH AIR DEVICE NECK SIZE OR THE TABLE IN AIR DEVICE SCHEDULE, WHICHEVER IS LARGER. FLEXIBLE DUCTS SHALL BE SIZED SIMILARLY, DO NOT USE FLEXIBLE DUCTS ABOVE NON-LAYIN CEILINGS.
- Y. TERMINAL BOX INLET DUCTS: SIZE THE RUNOUT DUCT AND ITS TAP AT MAIN TRUCK PER VAV BOX SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
- Z. TERMINAL BOX OUTLET DUCTS: SIZE THE LOW PRESSURE OUTLET DUCT TO BE SIZE OF TERMINAL BOX DISCHARGE UNLESS NOTED OTHERWISE ON PLANS.
- AA. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT. PROVIDE 0.5" BY 0.5" BIRD SCREEN (316 STAINLESS STEEL) AT ALL INDOOR FACE OF LOUVERS AND UNDUCTED AIR FLOW OPENINGS TO EQUIPMENT HANDLING OUTSIDE AIR.
- AB. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.
- AC. INSTALL SPACE THERMOSTAT ADJACENT TO LATCH SIDE OF DOOR IN SPACE INDICATED.
- AD. INDICATED SPACE THERMOSTAT LOCATIONS ARE APPROXIMATE. AVOID HEAT PRODUCING EQUIPMENT.
- AE. FINAL SPACE THERMOSTAT/SENSOR LOCATIONS SHALL BE AS DIRECTED BY THE ARCHITECT.
- AF. INSTALL HUMIDISTATS IN SIMILAR FASHION.
- AG. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).
- AH. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.
- AI. PROVIDE CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN.
- AJ. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELL OR OTHER FITTING SHALL BE INSTALLED WITH THE DAMPER BLADE SHAFTS PARALLEL TO THE AIRSTREAM FLOW DIRECTION UPSTREAM OF THE FITTING.
- AK. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.
- AL. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.
- AM. FULLY INTEGRATE ALL NEW CONTROLS WITH ALL EXISTING / MODIFIED EQUIPMENT BACK TO NEW FMS AND ENGINEERS WORKSTATION IN RENOVATION PROJECT.
- AN. PROVIDE FILTER GAUGE ACROSS EACH FILTER BANK SERVING CENTRAL AIR SYSTEMS. THE GAUGE SHALL BE RED LINED OR A FILTER ALARM LIGHT INSTALLED TO SIGNAL WITH THE RECOMMENDED MAXIMUM STATIC PRESSURE DROP HAS BEEN REACHED. USE MAXIMUM STATIC PRESSURE AS RECOMMENDED BY FILTER MANUFACTURER.
- AO. PIPE CONNECTIONS LESS THAN 2-1/2" TO HEATING COILS, COOLING COILS, HUMIDIFIERS AND SIMILAR EQUIPMENT SHALL HAVE FLEXIBLE CONNECTORS OR THREE 90-DEGREE OFFSETS IN CLOSE PROXIMITY OF THE CONNECTION.
- AP. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.
- AQ. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.
- AR. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPEN.

GENERAL PIPING NOTES

- A. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS SET OF PLANS. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.
- B. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- C. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- D. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- E. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.
- F. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE IN A TIMELY MANNER AS TO MINIMIZE THE DISRUPTION TO THE FACILITY.
- G. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL THERMOSTAT LOCATIONS.
- H. G.C. TO PROVIDE ACCESS DOORS IF REQUIRED FOR ACCESS TO VAVS AND ANY VALVES THAT ARE NOT ACCESSIBLE. VERIFY SIZE AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- I. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.
- J. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.
- K. CONTRACTOR SHALL COORDINATE ALL SLAB PENETRATIONS WITH EXISTING WAFFLE SLAB RIDGES AND BEAMS.

GENERAL DEMOLITION NOTES

- A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED AS PER ITEM B BELOW.
- B. PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:
- OPENINGS IN THE MAIN DUCTS ARE TO BE COVERED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS TO BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.
 - A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED TO THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.
- C. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS PLAN. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.
- D. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- E. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- F. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- G. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.
- H. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.
- I. FOR ALL MINOR RENOVATION AREAS, THE CONTRACTOR IS TO UNDERTAKE A FULL PRE-TAB OF ALL GRILLES AND DIFFUSERS WITHIN THE AREAS PRIOR TO DEMOLITION. THE REPORT SHOULD BE SENT TO THE EOR. UPON COMPLETION OF THE GRILLE/DIFFUSER REPLACEMENTS IN THESE AREAS, THE CONTRACTOR IS REQUIRED TO RE-BALANCE THE SYSTEM BACK TO THE VALUES DOCUMENTED WITHIN THE PRE-TAB REPORT. PLEASE NOTE THE PRE-TAB IS TO BE PERFORMED PRIOR TO ANY WORK ASSOCIATED WITH THE RESPECTIVE SYSTEMS BEING UNDERTAKEN.

FIRE ALARM SEQUENCE OF OPERATION

UPON FIRE ALARM ALL AIR HANDLING UNITS AND ASSOCIATED EXHAUST FANS SHALL SHUT DOWN BASED ON THEIR RESPECTIVE SMOKE COMPARTMENTS. ALL ISOLATION EXHAUST FANS TO REMAIN IN OPERATION. ALL ASSOCIATED SMOKE AND COMBINATION FIRE/SMOKE DAMPERS SERVING SYSTEMS THAT SHUT OFF UPON FIRE ALARM SHALL CLOSE DURING FIRE ALARM.

DESIGN CRITERIA

LOCATION: CITY/STATE	LEE'S SUMMIT, MISSOURI
APPLICABLE CODES:	2018 IBC 2018 IBC 2018 IBC 2018 IECC 2017 NEC 2018 IFC
BUILDINGS	2018 IBC
MECHANICAL	2018 IBC
PLUMBING	2018 IBC
ENERGY	2018 IECC
ELECTRICAL	2017 NEC
FIRE	2018 IFC
LATITUDE: DEG. N. LAT.	38.9
LONGITUDE: DEG. W. LONG.	94.3
ELEVATION: FT. ABOVE SEA LEVEL	997
ASHRAE SUMMER DESIGN CONDITIONS: 0.4% DRY BULB 0.4% WET BULB	86.9 F 78.5 F
ASHRAE WINTER DESIGN CONDITIONS: 99% WET BULB HCA DESIGN CRITERIA	3.9 F -10 F
BUILDING SPACE DESIGN TEMPERATURES: SUMMER DB WINTER DB	72 F 68 F
SUPPLY AIR TEMPERATURE: DEG. F. DRY BULB	55 F

MECHANICAL ABBREVIATIONS

AC	ABOVE CEILING	GEF	GENERAL EXHAUST FAN
AFF	ABOVE FINISHED FLOOR	HW	HEATING HOT WATER
AHU	AIR HANDLING UNIT	IBT	INVERTED BUCKET TRAP
AI	ANALOG INPUT	IN HG	INCHES MERCURY (PRESSURE)
AO	ANALOG OUTPUT	IN WC	INCHES WATER COLUMN (PRESSURE)
BF	BELOW FLOOR, BLIND FLANGE	LE	LAUNDRY EQUIPMENT
BFC	BELOW FINISHED CEILING	MA	MIXED AIR
BG	BELOW GRADE	MVD	MOTORIZED VOLUME DAMPER
BV	BUTTERFLY VALVE	N	NEW
CHW	CHILLED WATER	OA	OUTSIDE AIR
CRAC	COMPUTER ROOM A/C UNIT	OSD	OPPOSED BLADE DAMPER
CRU	CONDENSATE RETURN UNIT	PRV	PRESSURE RELIEF VALVE
CJ	CONDENSING UNIT	R	RELOCATED
DI	DIGITAL INPUT	RA	RETURN AIR
DO	DIGITAL OUTPUT	RCA	RECIRCULATED (RETURN) AIR
DS	DISCONNECT SWITCH	RLA	RELIEF AIR
E	EXISTING	SA	SUPPLY AIR
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SV	SAFETY VALVE
EA	EXHAUST AIR	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
EF	EXHAUST FAN	UH	UNIT HEATER
FCU	FAN COIL UNIT	UNO	UNLESS NOTED OTHERWISE
FMB	FILTER MOUNTING BOX	VAV	VARIABLE AIR VOLUME
FPB	FAN POWERED BOX	VD	VOLUME DAMPER
FPI	FINS PER INCH	WH	WATER HEATER
GC	GENERAL CONTRACTOR	WHP	WATER-SOURCE HEAT PUMP

CONTROL DIAGRAM SYMBOLS

SYMBOLS	DESCRIPTION
(AI)	ANALOG INPUT
(AO)	ANALOG OUTPUT
(DI)	DIGITAL INPUT
(DO)	DIGITAL OUTPUT
TT-X	TEMPERATURE TRANSMITTER #X
HT-X	RELATIVE HUMIDITY TRANSMITTER #X
V-X	CONTROL VALVE #X
SPT-X	STATIC PRESSURE TRANSMITTER #X
ESC-X	END SWITCH, NORMALLY CLOSED #X
ESO-X	END SWITCH, NORMALLY OPEN #X
TS-X	TEMPERATURE SENSOR #X
SD-X	SMOKE DETECTOR #X
OL	OVERLOAD RELAY #X
DPS-X	DIFFERENTIAL PRESSURE SENSOR #X
CSR-X	CURRENT SENSING RELAY #X
FM-X	FLOW METER #X
FS-X	FLOW SWITCH #X
EAS-X	EMERGENCY AIR HANDLER SHUT DOWN BUTTON #X

MECHANICAL SYMBOLS

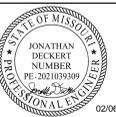
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
(A/B)	NEW EQUIPMENT DESIGNATION (TOP - EQUIP. ABBREV., BOTTOM - MARK)
(A/B)	NEW DIFFUSER DESIGNATION (TOP - SCHEDULE DESIGN., BOTTOM - CFM)
(E)	NEW EQUIPMENT
(E)	EXISTING EQUIPMENT
(D)	NEW DUCT
(D)	EXISTING DUCT
(D)	EXISTING DUCT TO BE REMOVED OR RELOCATED
(D)	NEW SUPPLY DIFFUSER
(D)	EXISTING SUPPLY DIFFUSER
(D)	EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED
(D)	NEW R/A GRILLE
(D)	EXISTING R/A GRILLE
(D)	EXISTING R/A GRILLE TO BE REMOVED OR RELOCATED
(D)	NEW EXHAUST GRILLE
(D)	EXISTING EXHAUST GRILLE
(D)	EXISTING EXHAUST GRILLE TO BE REMOVED OR RELOCATED
(D)	NEW SLOT DIFFUSER
(D)	FLEXIBLE DUCT
(D)	EXISTING SLOT DIFFUSER
(D)	EXISTING SLOT DIFFUSER TO BE REMOVED OR RELOCATED
(T)	THERMOSTAT W/ BACKBOX AND CONDUIT TO ABOVE CEILING
(T)	EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED
(D)	45 DEGREE PRESSURE TAP W/ VOLUME DAMPER
(D)	CONICAL TAP W/ VOLUME DAMPER
(D)	CONICAL TAP W/O VOLUME DAMPER
(D)	MANUAL DAMPER
(FD)	FIRE DAMPER
(SD)	SMOKE DAMPER
(FSO)	FIRE/SMOKE DAMPER
(M)	MOTORIZED DAMPER
(BD)	BAROMETRIC DAMPER
CHS	CHILLED WATER SUPPLY PIPE
CHR	CHILLED WATER RETURN PIPE
CS	CONDENSER WATER SUPPLY PIPE
CR	CONDENSER WATER RETURN PIPE
RL	REFRIGERANT LIQUID PIPE
RG	REFRIGERANT GAS PIPE
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
PCR	PUMPED CONDENSATE RETURN
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DOMESTIC HOT WATER RETURN
SS	SANITARY WASTE LINE
CD	CONDENSATE DRAIN
---	DIRECTION OF SLOPE
---	DIRECTION OF FLOW
(L)	EXPANSION LOOP
(V)	GATE VALVE
(V)	BUTTERFLY VALVE
(V)	GLOBE VALVE
(V)	TEMPERATURE AND PRESSURE RELIEF VALVE
(V)	BALANCING VALVE
(V)	AUTOMATIC 2-WAY CONTROL VALVE
(V)	AUTOMATIC 3-WAY CONTROL VALVE
(V)	PLUG VALVE/BALANCING COCK
(V)	SOLENOID VALVE
(V)	CHECK VALVE
(V)	HYDRAULIC SHOCK ARRESTOR
(V)	VALVE VERTICAL
(U)	UNION
(V)	VACUUM BREAKER
(D)	P-TRAP
(D)	FLOOR DRAIN W/ P-TRAP
(HD)	HUB DRAIN
(FCO)	FLOOR CLEANOUT OR GRADE CLEANOUT
(WCO)	CLEANOUT OR WALL CLEANOUT
(P)	PETE'S PLUG
(G)	GAUGE COCK
(T)	THERMOMETER
(T)	THERMOMETER WELL
(S)	STRAINER W/ BLOW-OFF VALVE
(S)	F&T STEAM TRAP
(S)	STEAM BUCKET TRAP
(S)	CONNECT TO EXISTING
(EP)	ELECTRIC PNEUMATIC SWITCH
(T)	TRAP



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Consultant:



02/06/2026
WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION BY ARCHITECTURAL FIRM UNDER REG. 305 OF THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CEASING OF CONSTRUCTION OF BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO ARCHITECTURAL FIRM.

LAB & PHARMACY RENOVATION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
2	ASH-002	2026/02/09

DATE: 05/23/2025
SCALE: N.T.S.
DRAWN: HO
REVIEWED: JD
JOB NUMBER: 6406.24

GENERAL INFORMATION - MECHANICAL

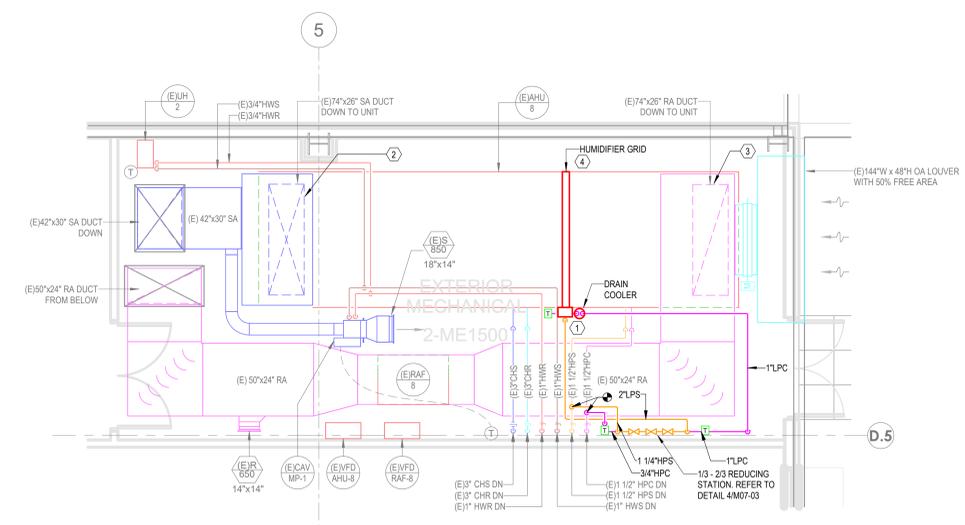
M00-00

GENERAL NOTES

- A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND LEGENDS.
- B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS.

LEGEND NOTES

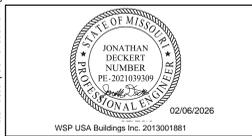
- 1. PROVIDE NEW FIELD-FABRICATED DRAIN PAN UNDERNEATH NEW HUMIDIFIER GRID.
- 2. INSTALL CONTROLLING HIGH LIMIT HUMIDISTAT DOWNSTREAM OF SUPPLY FANS.
- 3. INSTALL RETURN AIR HUMIDITY IN RETURN AIR DUCTWORK OR PLENUM.
- 4. PROVIDE NEW HUMIDIFIER GRID IN AHU SECTION IMMEDIATELY DOWNSTREAM OF HEATING COIL. CONTRACTOR SHALL VERIFY REQUIRED DIMENSIONS OF NEW HUMIDIFIER GRID WITH DIMENSIONS OF EXISTING AHU PRIOR TO ORDERING GRID.



1 FLOOR PLAN - ELARGED MECH ROOM LEVEL 02
1/4" = 1'-0"



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Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternate schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
2	ASH-002	2026/02/09

DATE: 05/23/2025
SCALE: As indicated
DRAWN: WSP
REVIEWED: WSP
JOB NUMBER: 6406.24

ENLARGED PLAN - MECHANICAL

M05-01

LAB & PHARMACY RENOVATION

HCA - LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHSS

FACILITY NUMBER:
0972400009

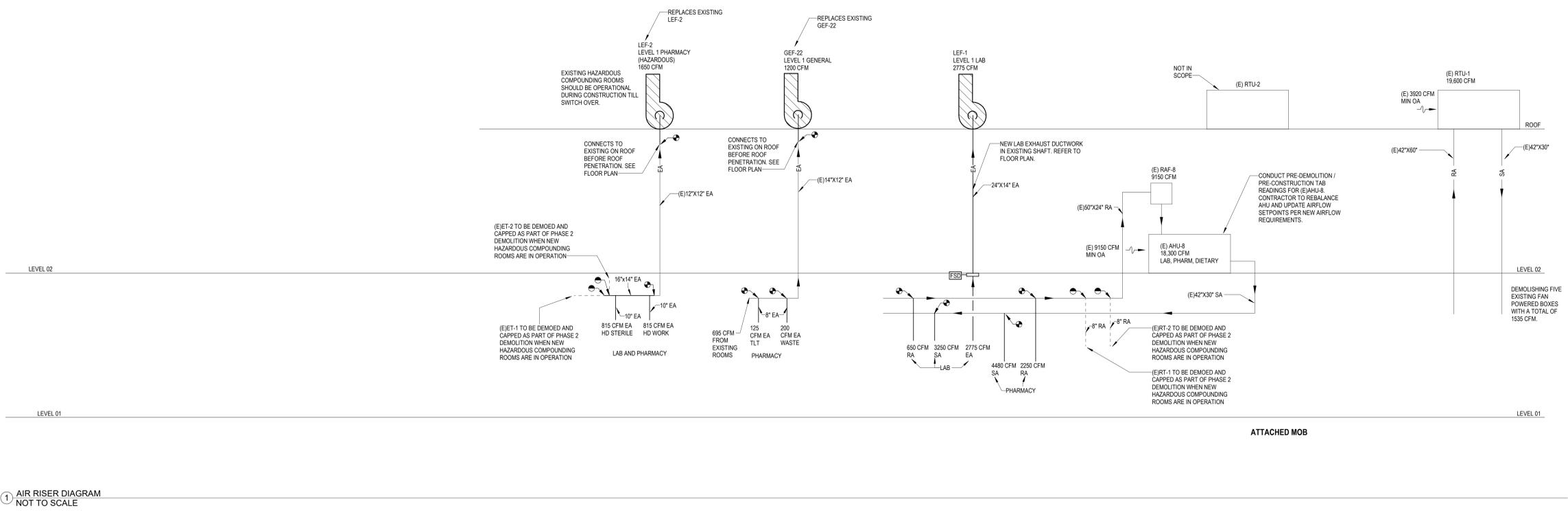
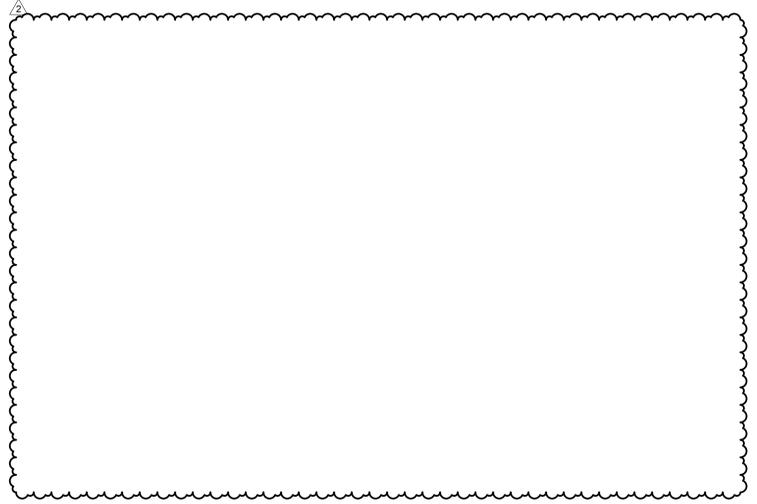
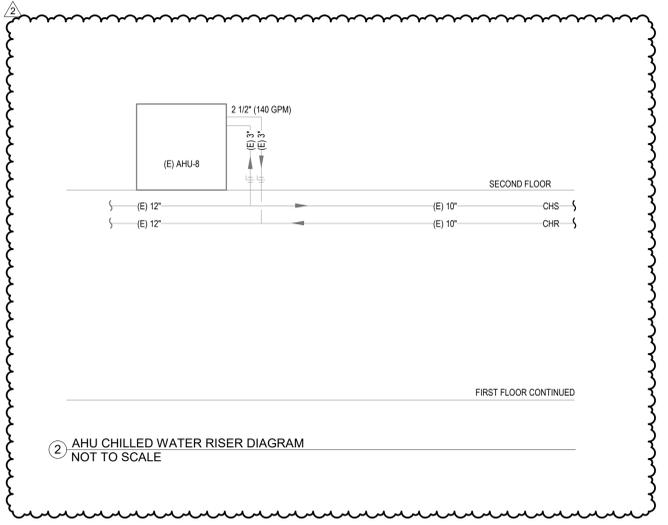
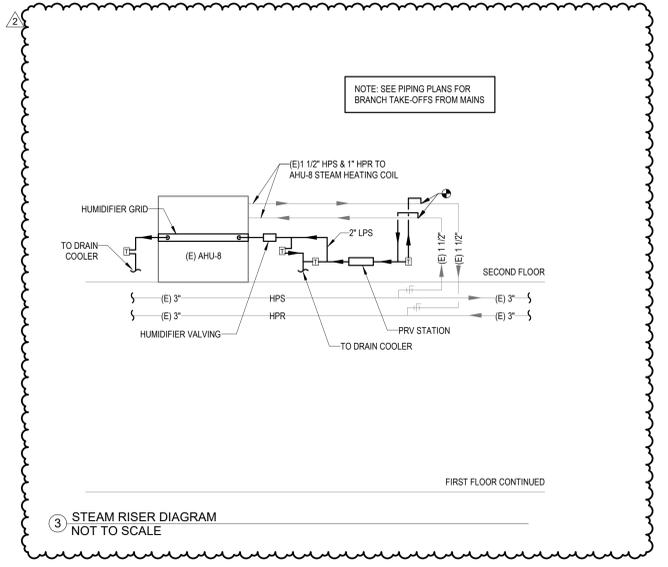
AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
2	ASH-002	2026/02/09

DATE: 05/23/2025
 SCALE: NOT TO SCALE
 DRAWN: HO
 REVIEWED: JD
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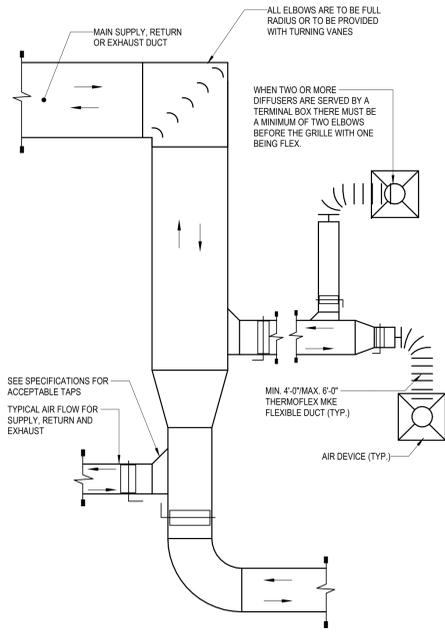
RISER DIAGRAM - MECHANICAL

M06-01

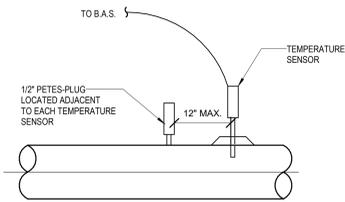


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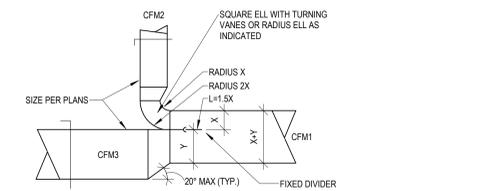
Autodesk Doc./Fig./6406.24 - HCA - Lee's Summit Medical Center (LSMC)_LV23/MEP_LSMC Lab & Pharmacy Renovation - R23.rvt



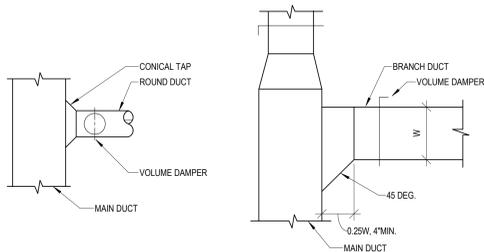
6 TYPICAL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT DETAIL NOT TO SCALE



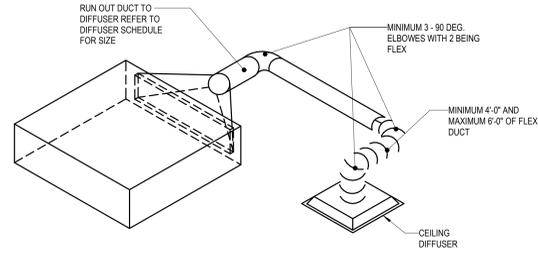
7 TEMPERATURE SENSOR INSTALLATION DETAIL NOT TO SCALE



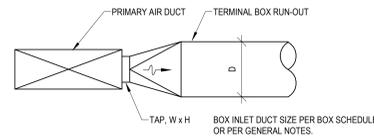
8 SPLITTER DAMPER USE THIS DETAIL WHERE CFM1 >= 3000 CFM AND CFM2/CFM1 >= 0.25. X/(X+Y) = CFM2/CFM1. CFM1 = CFM2 + CFM3.



9 LOW PRESSURE DUCT FITTINGS - HORIZONTAL DUCTS NOT TO SCALE

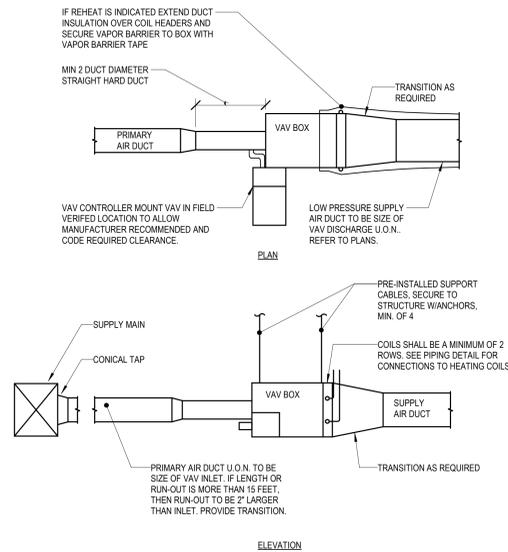


5 VAV BOX SERVING SINGLE DIFFUSER DETAIL NOT TO SCALE



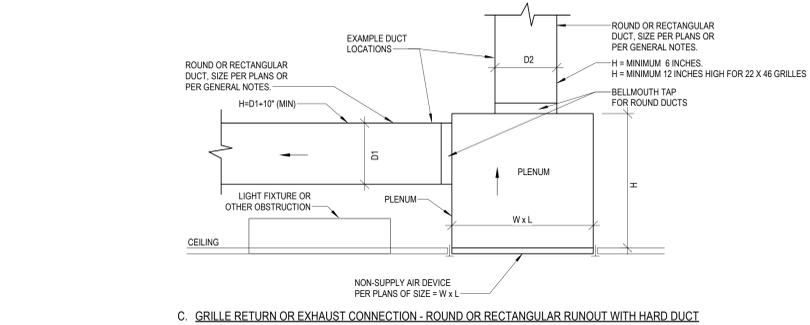
D (INCHES)	TAP, W x H (INCHES)
8	10/6
10	10/8
12	12/10, 16/8
14	14/12, 16/10
16	16/14, 18/12, 22/10
18	18/16, 20/14, 24/12

4 TERMINAL BOX INLET DUCT EQUIVALENT RECTANGULAR TO ROUND DUCT TAPS NOT TO SCALE

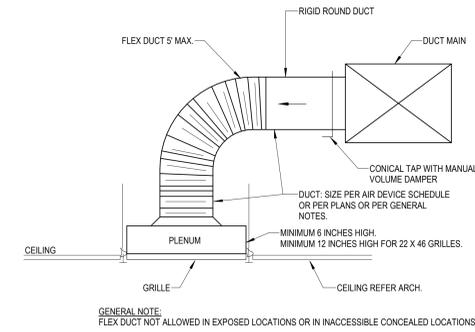


- NOTE:
- THIS DETAIL REFERS TO VAV AND CONSTANT VOLUME HOT WATER REHEAT AIR TERMINAL UNITS AND VAV AIR TERMINAL UNITS WITHOUT REHEAT.
 - TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE RECTANGULAR 45° ENTRY. REFER TO DRAWINGS FOR REQUIRED SHOE TAP DUCT SIZES.
 - MEDIUM PRESSURE ROUND TRUNK DUCT TO HAVE CONICAL TEE FITTING, WITH OTHER REQUIREMENTS AS SHOWN.
 - BOXES 1400 CFM OR LESS TO BE SUPPORTED WITH REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS.
 - COORDINATE REQUIREMENT FOR CEILING ACCESS PANELS WITH DIVISION 8 AND ARCHITECTURAL RCP.

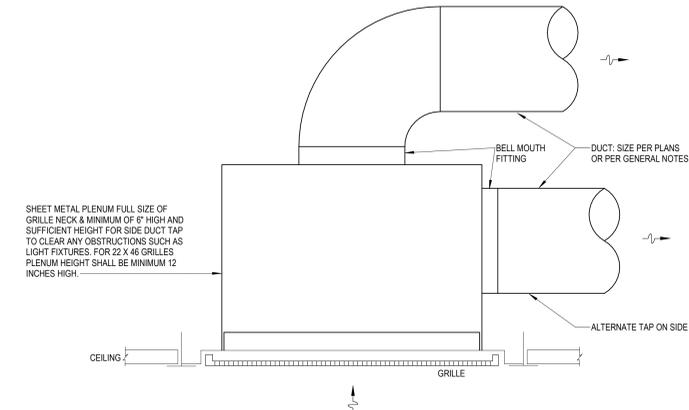
3 VAV BOX INSTALLATION DETAIL NOT TO SCALE



C. GRILLE RETURN OR EXHAUST CONNECTION - ROUND OR RECTANGULAR RUNOUT WITH HARD DUCT

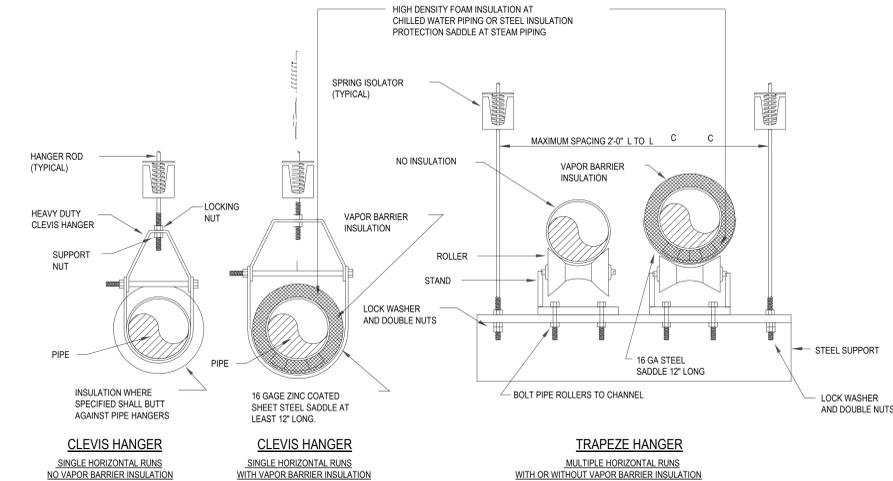


B. GRILLE RETURN OR EXHAUST CONNECTION - ROUND RUNOUT WITH FLEXIBLE DUCT



2 GRILLE RETURN OR EXHAUST NOT TO SCALE

A. GRILLE RETURN OR EXHAUST CONNECTION - ROUND RUNOUT WITH HARD DUCT



1 PIPING SUPPORT HANGERS NOT TO SCALE

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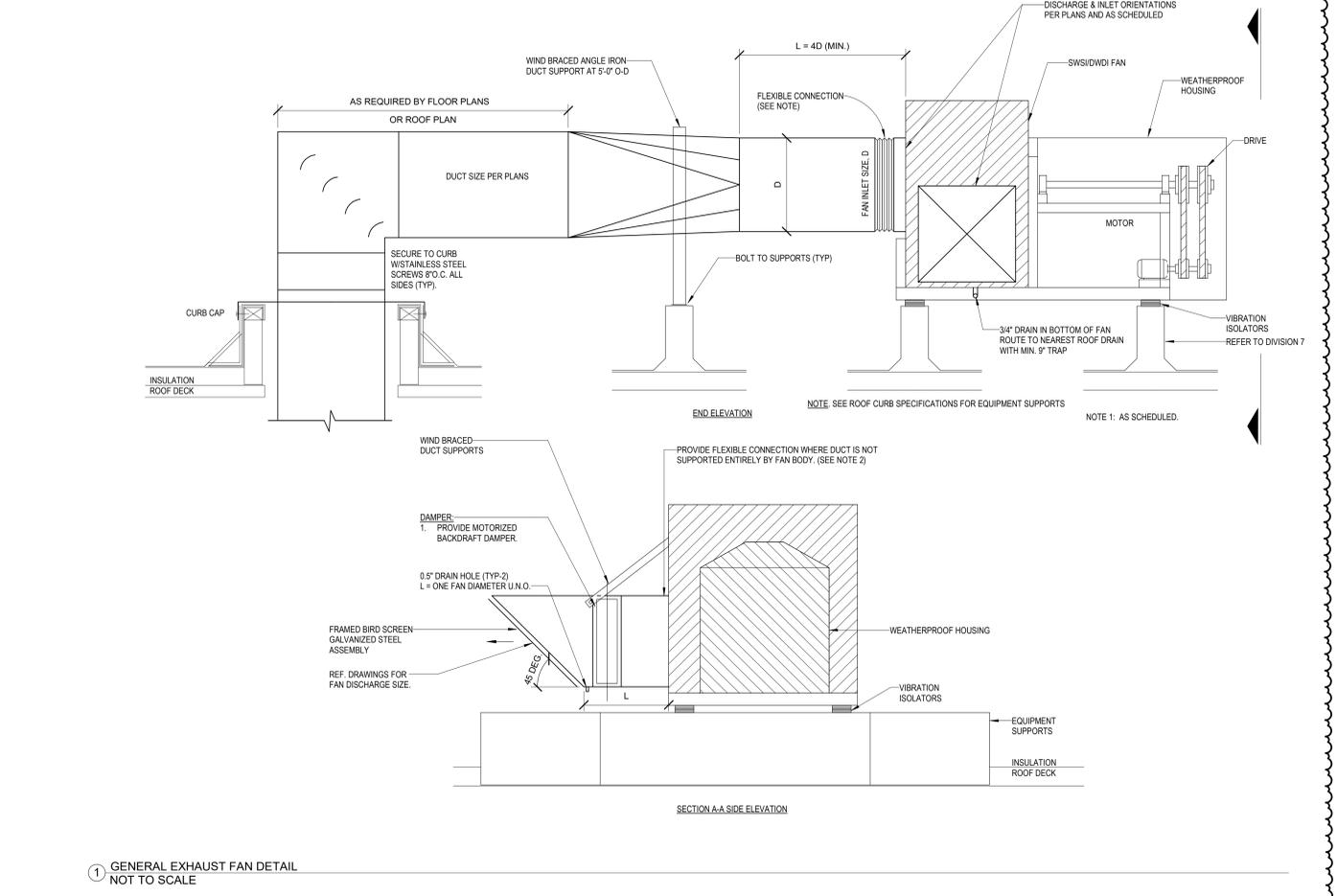
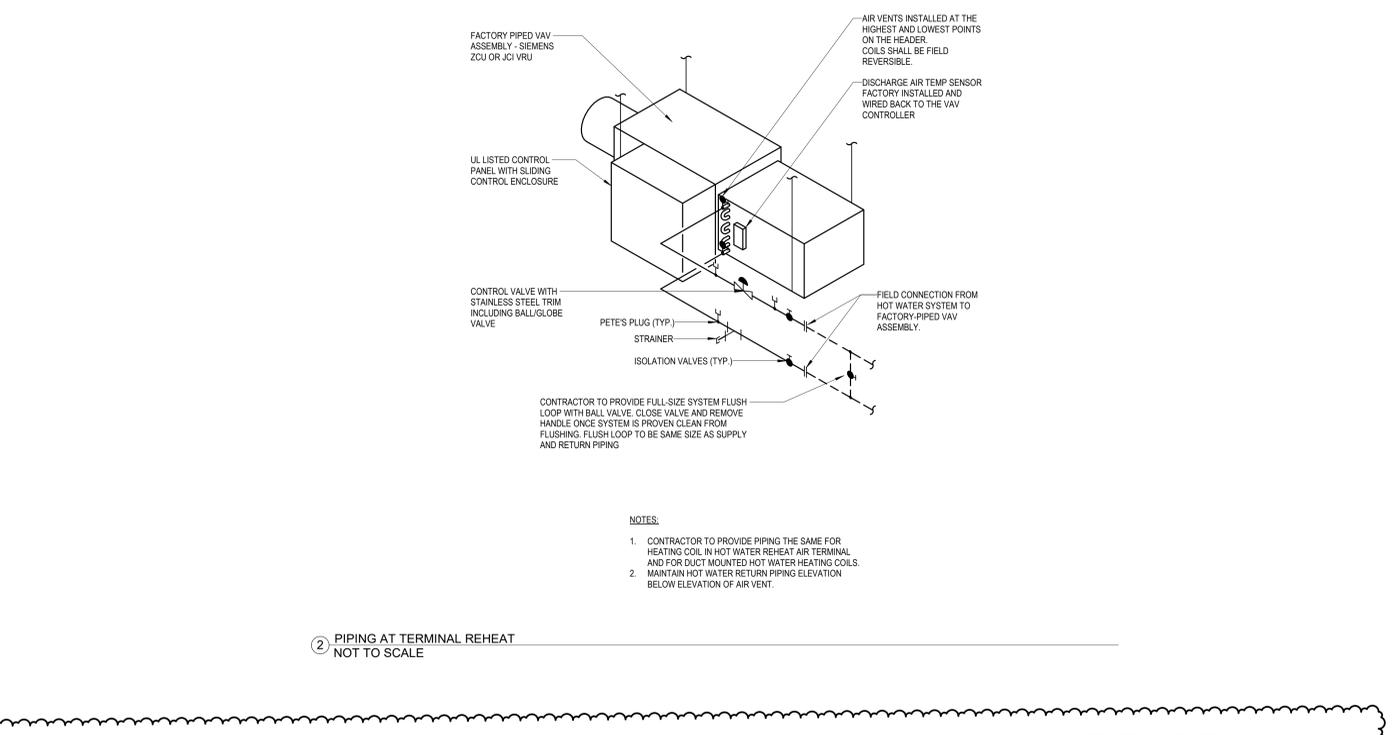
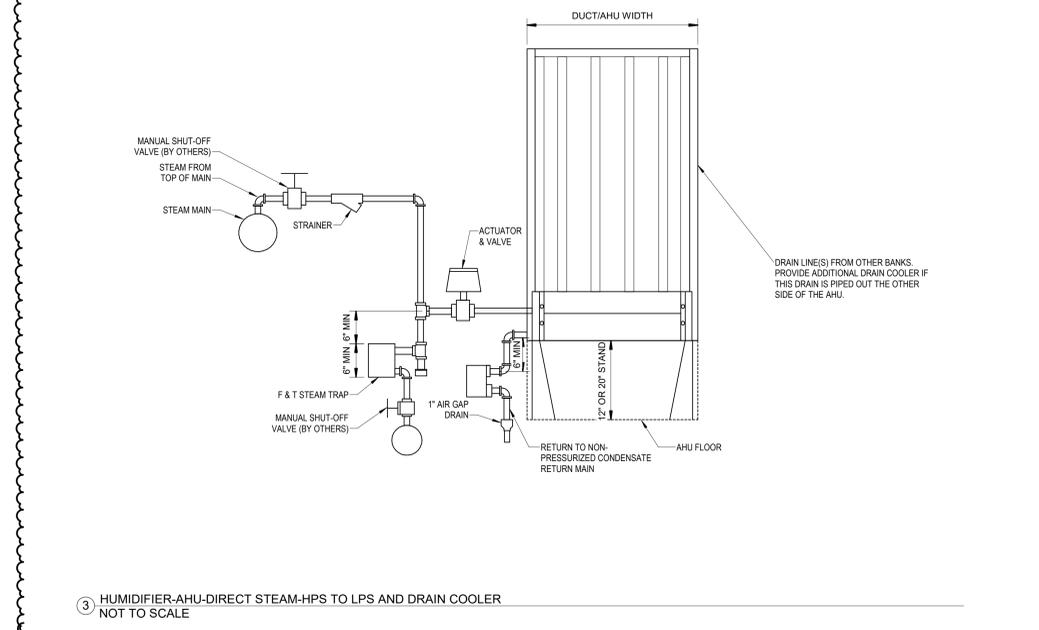
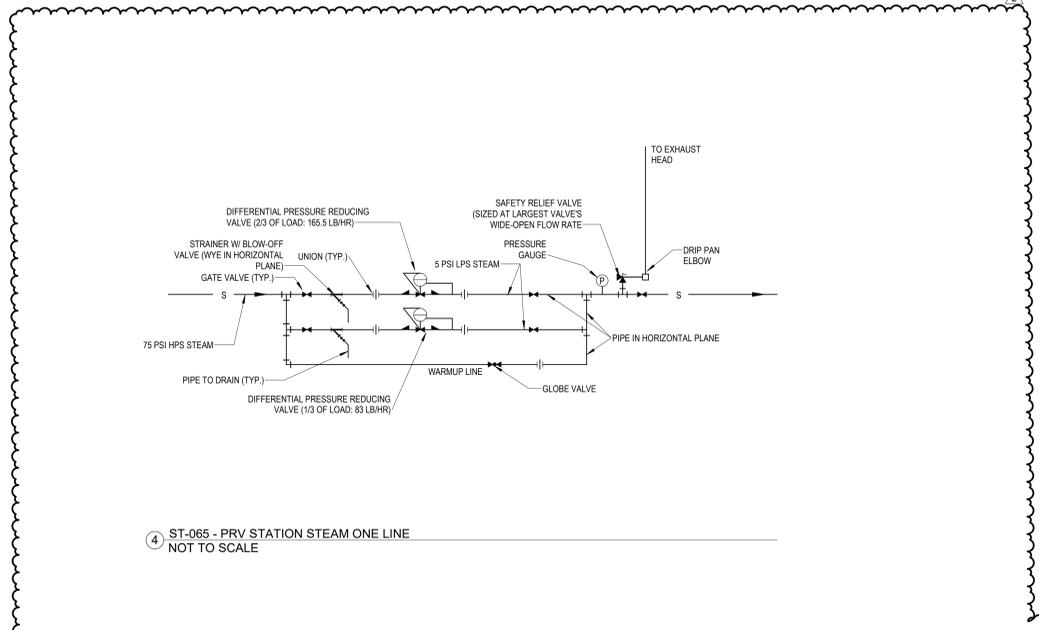
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DETAILS - MECHANICAL

M07-03



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AIR DEVICE SCHEDULE

DESIG.	SIZE	OBD	FINISH	THROW	NECK SIZE	MAX NC LEVEL	MANUFACTURER/MODEL NO.	REMARKS/NOTES
S1	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
S2	12"X12"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE/SPD	CEILING PLAQUE SUPPLY DIFFUSER
R1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE / SPD	CEILING RETURN GRILLE
R2	12"X12"	NO	WHITE	-	NOTE 1	25	PRICE / SPD	CEILING RETURN GRILLE
R3	SEE PLANS	NO	WHITE	-	FULL SIZE	25	PRICE / 610Z	SIDEWALL RETURN GRILLE
E1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E2	12"X12"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E3	SEE PLANS	NO	WHITE	-	FULL SIZE	25	PRICE / 610Z	SIDEWALL EXHAUST GRILLE

GENERAL NOTES:

- A. CONTRACTOR TO COORDINATE FRAME STYLE WITH ARCHITECTURAL PLANS. FRAME TYPE SHALL MATCH CEILING TYPE AND MODULE DIMENSIONS.
- B. CONTRACTOR TO COORDINATE FINAL FINISHES WITH ARCHITECT. AIR DEVICES TO BE FACTORY PAINTED.
- C. NECK SIZES SHALL BE AS SCHEDULED UNLESS NOTED OTHERWISE ON PLANS.
- D. DUCT MOUNTED AIR DEVICES SHALL BE FLANGE MOUNTED. NO MOUNTING SCREWS SHALL BE VISIBLE EXCEPT ON EXPOSED DUCTWORK.

NOTES:

1. 6"Ø	0-100	CFM
8"Ø	101-225	CFM
10"Ø	226-400	CFM
12"Ø	401-600	CFM
14"Ø	601-900	CFM
15"x15"	901-1000	CFM

(E)AHU-8 TERMINAL UNIT W/ HEATING WATER COIL SCHEDULE

DESIGNATION	INLET SIZE (IN)	MIN CFM	MAX HEATING CFM	MAX COOLING CFM	OUTLET SIZE (IN/IN)	VALVE MAX APD (IN WG)	EAT DB °F	LAT DB °F	EWT °F	H.W. COIL		MIN ROWS	MAX N.C.	JCI MODEL NUMBER	NOTES	
										MAX WATER P.D. (FT)	MAX FLOW GPM					
VAV-8-1	8"	625	625	625	10 / 12	0.25	52	95	140	110	10	1.5	2	30	TSS-06	ALL
VAV-8-2	6"	325	325	325	8 / 12	0.25	52	95	140	110	10	0.8	2	30	TSS-06	1, 3-12
VAV-8-3	8"	575	575	575	10 / 12	0.25	52	95	140	110	10	1.4	2	30	TSS-06	1, 3-12
VAV-8-4	6"	350	350	350	8 / 12	0.25	52	95	140	110	10	0.9	2	30	TSS-06	1, 3-12
VAV-8-5	6"	150	150	150	8 / 12	0.25	52	95	140	110	10	0.4	2	30	TSS-06	1, 3-12
VAV-8-6	8"	650	650	650	10 / 12	0.25	52	95	140	110	10	1.6	2	30	TSS-06	1, 3-12
VAV-8-7	8"	150	150	500	10 / 12	0.25	52	95	140	110	10	0.4	2	30	TSS-06	1, 3-12
VAV-8-8	12"	1,250	1,250	1,250	15 / 16	0.25	52	95	140	110	10	3.1	2	30	TSS-12	1, 3-12
VAV-8-9	6"	100	100	300	8 / 12	0.25	52	95	140	110	10	0.3	2	30	TSS-06	1, 3-12
VAV-8-10	6"	100	100	175	8 / 12	0.25	52	95	140	110	10	0.3	2	30	TSS-06	1, 3-12
VAV-8-11	8"	475	475	475	10 / 12	0.25	52	95	140	110	10	1.2	2	30	TSS-06	1, 3-12
VAV-8-12	8"	665	665	665	10 / 12	0.25	52	95	140	110	10	1.7	2	30	TSS-06	1, 3-12
VAV-8-13	8"	665	665	665	10 / 12	0.25	52	95	140	110	10	1.7	2	30	TSS-06	1, 3-12
VAV-8-14	10"	800	800	800	12.5 / 14	0.25	52	95	140	110	10	2.0	2	30	TSS-10	1, 3-12
VAV-8-15	6"	75	75	225	8 / 12	0.25	52	95	140	110	10	0.2	2	30	TSS-06	1, 3-12

NOTES:

1. MIN MBH = GPM x 15.
2. PROVIDE 3 WAY VALVE AS INDICATED ON DRAWINGS.
3. UNIT MOUNTED / WIRED FACTORY CONTROL PANEL.
4. PRESSURE INDEPENDENT CONTROLS COMPATIBLE WITH BUILDING CONTROLS SYSTEM.
5. CONSTANT AIR VOLUME (CAV) BOXES SHALL BE IDENTICAL TO VARIABLE AIR VOLUME (VAV) BOXES.
6. FACTORY INTERNAL INSULATION: INTERNAL FIBER FREE CLOSED CELL INSULATION.
7. CFM DELIVERY SHALL BE ACCURATE WITHIN 5% OF FROM 25-100% OF SCHEDULED BOX CFM.
8. H.W. COIL SHALL BE LOCATED AS DISCHARGE OF BOX.
9. OUTLET PLENUM BY INCLUDED BY MANUFACTURER. COORDINATE WITH RUNOUT SIZES TO AIR DEVICES. PROVIDE TRANSITION FROM BOX OUTLET PLENUM TO DUCTWORK. UPSIZE AS REQUIRED.
10. CONTROLS SHALL BE FURNISHED AND SHIPPED TO TERMINAL BOX FACTORY BY TEMPERATURE CONTROLS MANUFACTURER. CONTROLS SHALL BE INSTALLED AT TERMINAL BOX FACTORY BY TERMINAL BOX MANUFACTURER.
11. PROVIDE PIPING CONNECTION TO TERMINAL UNIT REHEAT COILS AS SCHEDULED:

0 - 4.0 GPM	: 3/4"
4.1 - 8.0 GPM	: 1"
8.1 - 15.0 GPM	: 1-1/4"
12. VAV BOXES SHALL NOT EXCEED A 95° LEAVING AIR TEMPERATURE WHEN BOX MODEL AND HEATING COIL ARE SELECTED BY MANUFACTURER.

STEAM SYSTEM ACCESSORIES SCHEDULE

MARK	TYPE (DESCRIPTION)	SYSTEM APPLICATION	MINIMUM PRESSURE RATING (PSIG) (SATURATED)	BODY MATERIAL	INTERNAL CONSTRUCTION MATERIALS	INLET/OUTLET PIPING ARRANGEMENT	INTEGRAL COMPONENTS	CAPACITY			MODEL NO. (SARCO)	NOTES	
								SIZE (INCHES)	DIFFERENTIAL (PSI)	PPH			
FTT-1	FLOAT AND THERMOSTATIC TRAP	LPS ONLY	15	CAST IRON	STAINLESS STEEL	IN-LINE HORIZONTAL	1. FLOAT 2. THERMOSTATIC AIR VENT	0.75	0.25	279	0.22"	FTI-15	1,2
FTT-2								1.25	0.25	600	0.31"	FTI-15	1,2
FTT-3								1.50	0.25	1100	0.50"	FTI-15	1,2
FTT-4								2.00	0.25	2600	2 AT 0.75"	FTB-175	1,2
FTT-5								2.00	0.25	6000	0.94"	FTB-20	1,2
FTT-6								2.00	0.25	12000	2 AT 2.12"	FTB-30	1,2
FTT-7								2.50	0.25	19000	2 AT 2.12"	FTB-125	1,2
FTT-8	FLOAT AND THERMOSTATIC TRAP	HPS ONLY (NOTE 7)	125	CAST IRON	STAINLESS STEEL	IN-LINE HORIZONTAL	1. FLOAT 2. THERMOSTATIC AIR VENT	0.75	0.25	100	0.12"	FTI-125	1,2
FTT-9								1.25	0.25	400	0.29"	FTI-125	1,2
FTT-10								1.50	0.25	920	2 AT 0.38"	FTB-175	1,2
FTT-11								2.00	0.25	2600	2 AT 0.75"	FTB-175	1,2
FTT-12								2.50	0.25	7000	2 AT 1.50"	FTB-175	1,2
IBT-1	INVERTED BUCKET TRAP	HPS ONLY (NOTE 6)	125	CAST IRON	STAINLESS STEEL	IN-LINE HORIZONTAL	1. INVERTED BUCKET 2. STRAINER, MONEL 3. BIMETALIC AIR VENT, INTERNAL	0.75	0.25	446	0.12"	B1H-125	1,2,3
IBT-2								0.75	0.25	1100	0.20"	B2-125	1,2,3
IBT-3								1.0	0.25	2080	0.25"	B3-125	1,2,3
TAV-1	THERMOSTATIC AIR VENT	LPS HPS	125	BRASS	STAINLESS STEEL	1. VERTICAL INLET 2. HORIZONTAL OR VERTICAL OUTLET	1. THERMOSTATIC AIR VENT	0.38" X 0.25"	50 PSIG INLET	40 SCFM AIR	-	T202	2,4
TAV-2								0.50	50 PSIG INLET	88 SCFM AIR	-	V5204	1,2
TAV-3								0.75	50 PSIG INLET	112 SCFM AIR	-	V5206	1,2
VB-1	VACUUM BREAKER	LPS HPS	125	BRASS	STAINLESS STEEL	1. VERTICAL INLET 2. HORIZONTAL OUTLET	1. BALL CHECK VALVE	0.5" X 0.12"	6" HG VACUUM	4.0 SCFM AIR	-	VB14	2,4,5

NOTES:

1. BOLTED COVER.
2. SERVICABLE UNIT WITHOUT REMOVING FROM PIPING.
3. INSTALL ONE TAV-1 EXTERNALLY PIPED ON INLET SIDE OF EACH IBT.
4. THREADED COVER.
5. VACUUM REQUIRED TO OPEN = 2 INCHES WC (0.15 IN HG).

EXHAUST/RETURN AIR TERMINAL SCHEDULE

DESIGNATION	SERVICE DESCRIPTION	ROOM(S)	MANUFACTURER / MODEL	CATALOG NUMBER	DUCT SIZE	CFM	V/PH	NOTES
EAV-1	EXISTING LEF-2	HD STERILE COMP ROOM	PHOENIX CONTROLS / THERIS TX	HEVA110M-ALDHZ	10"	815	120 / 1	ALL
EAV-2	EXISTING LEF-2	HD WORK/STOR	PHOENIX CONTROLS / THERIS TX	HEVA110M-ALDHZ	10"	815	120 / 1	ALL

NOTES:

- A. THIRD PARTY FURNISHED CONTROLS SHALL BE FACTORY MOUNTED.
- B. INLET SIZE SCHEDULED IS THE MINIMUM ALLOWABLE INLET SIZE. NO EXCEPTIONS.
- C. AIR VALVE MANUFACTURER TO PROVIDE FACTORY INSTALLED CONTROL POWER (CP) TRANSFORMER. COORDINATE WITH ELECTRICAL DRAWINGS.
- D. PROVIDE THE FOLLOWING ACCESSORIES: FUME HOOD DISPLAY (FHD500-DHV), VERTICAL SASH SENSOR (VSS4-0100-A), AND ZONE PRESENCE SENSORS (ZPS310)

FAN FILTER UNIT SCHEDULE

DESIGNATION	ROOM(S)	MANUFACTURER	MODEL	FACE SIZE	AIR FLOW (CFM)	S/A CONNECTION (IN)	MOTOR		ELECTRICAL		NOTES
							(QTY)	(TYPE)	V/PH	FLA	
FFU-4	HD STERILE COMP ROOM	PRICE	FFU	24"X48"	665	12"	1	ECM	115 / 1	4.8	ALL
FFU-5	HD WORK/STOR	PRICE	FFU	24"X48"	665	12"	1	ECM	115 / 1	4.8	ALL
FFU-6	STERILE COMP	PRICE	FFU	24"X48"	350	12"	1	ECM	115 / 1	4.8	ALL
FFU-7	ANTE ROOM	PRICE	FFU	24"X48"	475	12"	1	ECM	115 / 1	4.8	ALL

NOTES:

- A. GALVANIZED CONTROL BOX WITH DISCONNECT SWITCH
- B. MOTOR/BLOWER AND CONTROLS ACCESSIBLE FROM ROOMSIDE AND TOPSIDE
- C. ROOMSIDE REMOVABLE FILTER: HEPA 2" IEST RP CC001 TYPE J
- D. PLENUM CONSTRUCTION: ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- E. FACE CONSTRUCTION: ALUMINUM (EXTRUDED FRAME) WITH URETHANE GEL
- F. PLENUM FINISH: B12 STANDARD WHITE
- G. EC MOTOR 50/60 HZ 1 PHASE, CONSTANT TORQUE MOTOR PROGRAM
- H. FORWARD CURVED WHEEL
- I. BACNET FLOW CONTROLLER, MOTOR AND FILTER STATUS OVER BACNET
- J. WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING
- K. 1/2" DIAMETER BARNED ROOMSIDE AEROSOL INJECTION PORT
- L. WALKABLE PLENUM, LAY-IN CEILING INSTALLATION, SQUARE INLET COLLAR
- M. FILTER STATUS LIGHTS ON FACE OF DIFFUSER

STEAM HUMIDIFIER SCHEDULE

MARK	EQUIPMENT SERVED	MANUFACTURER	PSI	CFM	HUMIDIFICATION LOAD LBS/HR	DIMENSIONS (IN)	ABSORPTION DISTANCE (FT)	NOTES
H-8	EXISTING AHU-8	CONDAIR	5	18300	248.5	86X80	1.14	ALL

NOTES:

1. MULTI-TUBE DISPERSION. ALLOW 18" HEIGHT ALONG BOTTOM OF COIL FACE AREA FOR CONDENSATE DRAINAGE.
2. OTHER REQUIRED COMPONENTS:
 - DUCT HIGH LIMIT HUMIDISTAT.
 - AIR FLOW SWITCH.
 - DRAIN COOLER, HORIZONTAL STYLE.
 - ELECTRIC MODULATING STEAM VALVES.
 - RETURN AIR HUMIDISTAT

FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	CFM	ESP (IN WG)	BHP	MAX dBA	FAN DATA			ELECTRICAL MOTOR DATA			AVAILABLE FAULT SCCR (AMPS)	APPROX. WEIGHT (LBS)	MANUF. - MODEL	NOTES
							TYPE	RPM	DRIVE	HP	VOLT / PH	STARTER				
GEF-22	ATTACHED MOB ROOF (LEVEL 3)	GENERAL 1ST FLOOR	1200	1.5	0.56	64	CENTRIFUGAL BLOWER	1635	DIRECT	3 / 4	208 / 3	HOA	*	151	GREENHECK USF-13-B7	1-4, 6, 9
LEF-1	ATTACHED MOB ROOF (LEVEL 3)	LAB 1ST FLOOR	2775	2	1.68	77	CENTRIFUGAL BLOWER	2447	DIRECT	2	208 / 3	VFD	*	213	GREENHECK USF-13-B6	1-8
LEF-2	ATTACHED MOB ROOF (LEVEL 3)	HAZARDOUS COMPOUNDING 1ST FLOOR	1650	1.5	0.62	67	CENTRIFUGAL BLOWER	1804	DIRECT	3 / 4	208 / 3	VFD	*	151	GREENHECK USF-13-B7	1-8

NOTES:

1. PROVIDE MOTORIZED BACKDRAFT DAMPER.
2. PROVIDE BIRDSCREEN.
3. 24" HIGH STEEL CURB, INSULATED, SLOPED BASE, LEVEL TOP.
4. SCROLL DRAIN PLUG, ALL WELDED STEEL FAN HOUSING, ALL WELDED STEEL FAN WHEEL, CLEAN OUT PLATE ON FAN HOUSING, 95% SPRING RUBBER VIBRATION ISOLATORS, MOTOR & DRIVE COVER, FLANGED DUCT OUTLET.
5. UPBLAST DISCHARGE.
6. PROVIDE FLEX CONNECTION AT FAN INLET.
7. DISCONNECT SWITCH TO BE INTERLOCKED WITH VFD.
8. EXHAUST STACK 10 FT FROM FINISHED ROOF.
9. HORIZONTAL DISCHARGE.



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IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, THEY ARE NOT TO BE CONSIDERED "THEIR OWNERS" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION BY ARCHITECTURAL RIGHTS UNDER THE PROTECTION OF THE COPYRIGHT ACT OF 1976, AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE OBTAINMENT OF CONSTRUCTION OF BUILDINGS BEING SUED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

LAB & PHARMACY RENOVATION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
2	ASH-002	2026/02/09

DATE: 05/23/2025
SCALE: As indicated
DRAWN: HO
REVIEWED: JD
JOB NUMBER: 6406.24

SCHEDULES - MECHANICAL

M08-01

Autodesk Docs // 6/26/24 - HCA - Lee's Summit Medical Center (LSMC) - RY23/MEP - USMC Lab & Pharmacy Renovation - R23.rvt 2/6/2026 11:52:27 AM