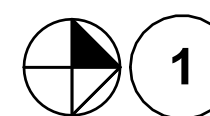
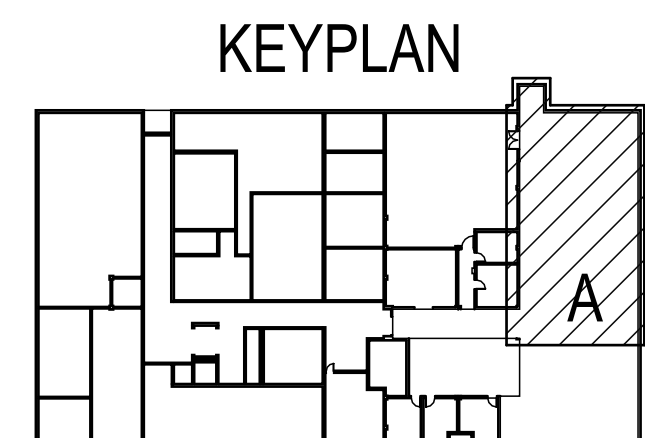
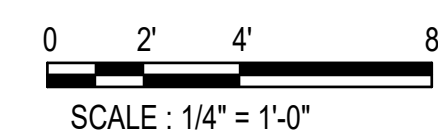


1. THE EXISTING HVAC SYSTEMS SHOWN HEREIN WERE TAKEN FROM DOCUMENTS FURNISHED BY OTHERS AND MAY NOT REFLECT EXACT FIELD CONDITIONS. THEREFORE, THE ENGINEER CAN NOT GUARANTEE THE ACCURACY OF THE SAME, NOR THAT ALL SYSTEMS AND/OR SYSTEM COMPONENTS ARE SHOWN. PRIOR TO PROCUREMENT / FABRICATION OF NEW WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY. NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND WHICH WOULD IMPEDE THE INTENT OF THE DESIGN SHOWN.
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION, INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, AND OTHER SYSTEMS, IF DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE PATCHED, REPAIRED, OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, OWNER, AND AUTHORITIES HAVING JURISDICTION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER ALL WORK THAT REQUIRES THE SHUT DOWN OF EXISTING AND STARTUP OF UTILITIES PRIOR TO START. WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT, ON WEEKENDS AND/OR OVER HOLIDAYS.
4. FOR CLARITY, NOT ALL DEVICES ARE SHOWN ON FLOOR PLANS. REFER TO FLOW DIAGRAMS, CONTROL DIAGRAMS, DETAILS AND SPECIFICATIONS FOR ADDITIONAL DEVICES.
5. WHERE REQUIRED, PROVIDE ADDITIONAL DEMOLITION BEYOND THAT SHOWN TO FACILITATE INSTALLATION OF NEW WORK.
6. WORK SHOWN HEREIN IS INTENDED TO SHOW END RESULT AND DOES NOT FULLY IMPLY SEQUENCING OF WORK. CONTRACTOR TO OBTAIN WORK SEQUENCING INFORMATION WITH OWNER, REVIEW OF EXISTING CONDITIONS AND REVIEW OF PHASING PLANS.

1. DEMOLISH FUME EXHAUST LOUVER. REFER TO ARCHITECTURAL DRAWINGS.
2. DEMOLISH EXISTING HOT WATER COIL AND COOLING COIL AT UNIT IN PREPARATION OF COOLING COIL REPLACEMENT. REFER TO NEW PLANS. CONTRACTOR SHALL REPAIR AND/OR REPLACE UNIT CASING AS REQUIRED BY UNIT MANUFACTURER PRECEEDING DEMOLITION. HEATING HOT WATER LINES AND ASSOCIATED PIPING ACCESSORIES SHALL BE DEMO'D BACK TO RISER AND CAPPED. CHILLED WATER PIPING TO COOLING COIL SHALL BE TEMPORARILY DISCONNECTED DURING DEMOLITION AND RECONNECTED UPON INSTALLATION OF NEW COIL.
3. DEMOLISH RETURN DUCTWORK AT UNIT WITHIN MECHANICAL ROOM. OUTSIDE AIR DUCT TAPPED INTO RETURN DUCTWORK SHALL BE MAINTAINED AND RECONNECTED TO NEW RETURN DUCTWORK. ALL EXISTING RETURN DUCTWORK SHALL BE REUSED IN NEW RETURN DUCTWORK. REFER TO NEW PLANS.
4. DEMOLISH TRANSFER GRILLE AT WALL AS SHOWN. REPATCH AND REPAIR WALL AS NECESSARY TO MATCH EXISTING.



Basement Mechanical Demolition Plan - A



KEYPLAN

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Basement Mechanical
Demolition Plan - A

Sheet No.:

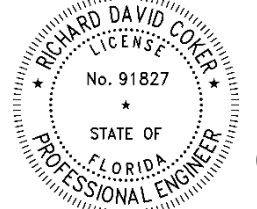
MD1.1



**Affiliated
Engineers®**

Affiliated Engineers, Inc.
12921 SW 1st Road, Suite 205
Newberry, FL 32669
352-376-5500 aeieng.com

ENGINEER-OF-RECORD
Richard D. Coker FL P.E. No. 91827



08/15/2025

This item has been digitally signed and sealed by
Richard David Coker on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

[illegible]

DRAWN:	REVIEWED:	DATE:
WRF	CDT	06-13-20
WRF	CDT	07-29-20
WRF	CDT	08-15-20

PHASE:	
DESIGN DEVELOPMENT	
100% CONSTRUCTION DOCUMENTS	
PERMIT DOCUMENTS	

Client: **Florida State University**

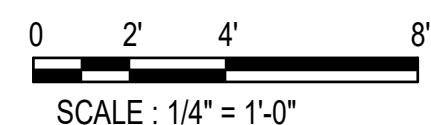
Keen Laboratories Remodel

Consultant:

Project #: 19370.58
Phase: Construction Documents

1. THE EXISTING HVAC SYSTEMS SHOWN HEREIN WERE TAKEN FROM DOCUMENTS FURNISHED BY OTHERS AND MAY NOT REFLECT EXACT FIELD CONDITIONS. THEREFORE, THE ENGINEER CAN NOT GUARANTEE THE ACCURACY OF THE SAME, NOR THAT ALL SYSTEMS AND/OR SYSTEM COMPONENTS ARE SHOWN. PRIOR TO PROCUREMENT FABRICATION OF NEW WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY. NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND WHICH WOULD IMPEDE THE INTENT OF THE DESIGN SHOWN.
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION, INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, OR OTHER SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE PATCHED, REPAIRED, OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND AUTHORITIES HAVING JURISDICTION.
3. CONTRACTOR SHALL COORDINATE WITH OWNER ALL WORK THAT REQUIRES THE SHUTDOWN OF EXISTING AND STARTUP OF NEW UTILITIES PRIOR TO START. WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT, ON WEEKENDS AND/OR OVER HOLIDAYS.
4. FOR CLARITY, NOT ALL DEVICES ARE SHOWN ON FLOOR PLANS. REFER TO FLOW DIAGRAMS, CONTROL DIAGRAMS, DETAILS AND SPECIFICATIONS FOR ADDITIONAL DEVICES.
5. WHERE REQUIRED, PROVIDE ADDITIONAL DEMOLITION BEYOND THAT SHOWN TO FACILITATE INSTALLATION OF NEW WORK.
6. WORK SHOWN HEREIN IS INTENDED TO SHOW END RESULT AND DOES NOT FULLY IMPLY SEQUENCING OF WORK. CONTRACTOR TO ESTABLISH WORK SEQUENCE VIA COORDINATION WITH OWNER, REVIEW OF EXISTING CONDITIONS AND REVIEW OF PHASING PLANS.

1. DEMOLISH DUCTWORK SERVING AREAS WITHIN PROJECT SCOPE, AS SHOWN. CAP EXISTING TO REMAIN DUCTWORK, AS SHOWN ON NEW PLANS

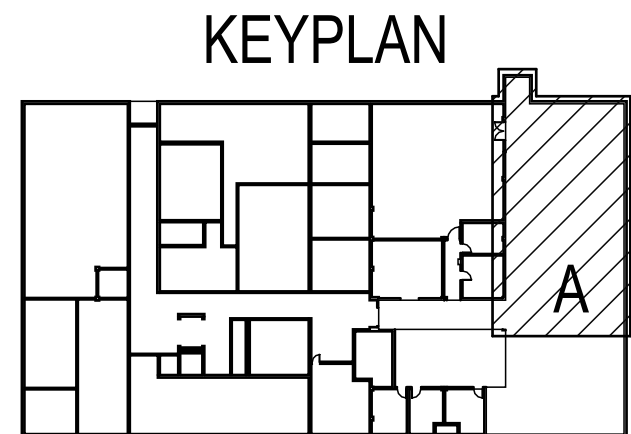
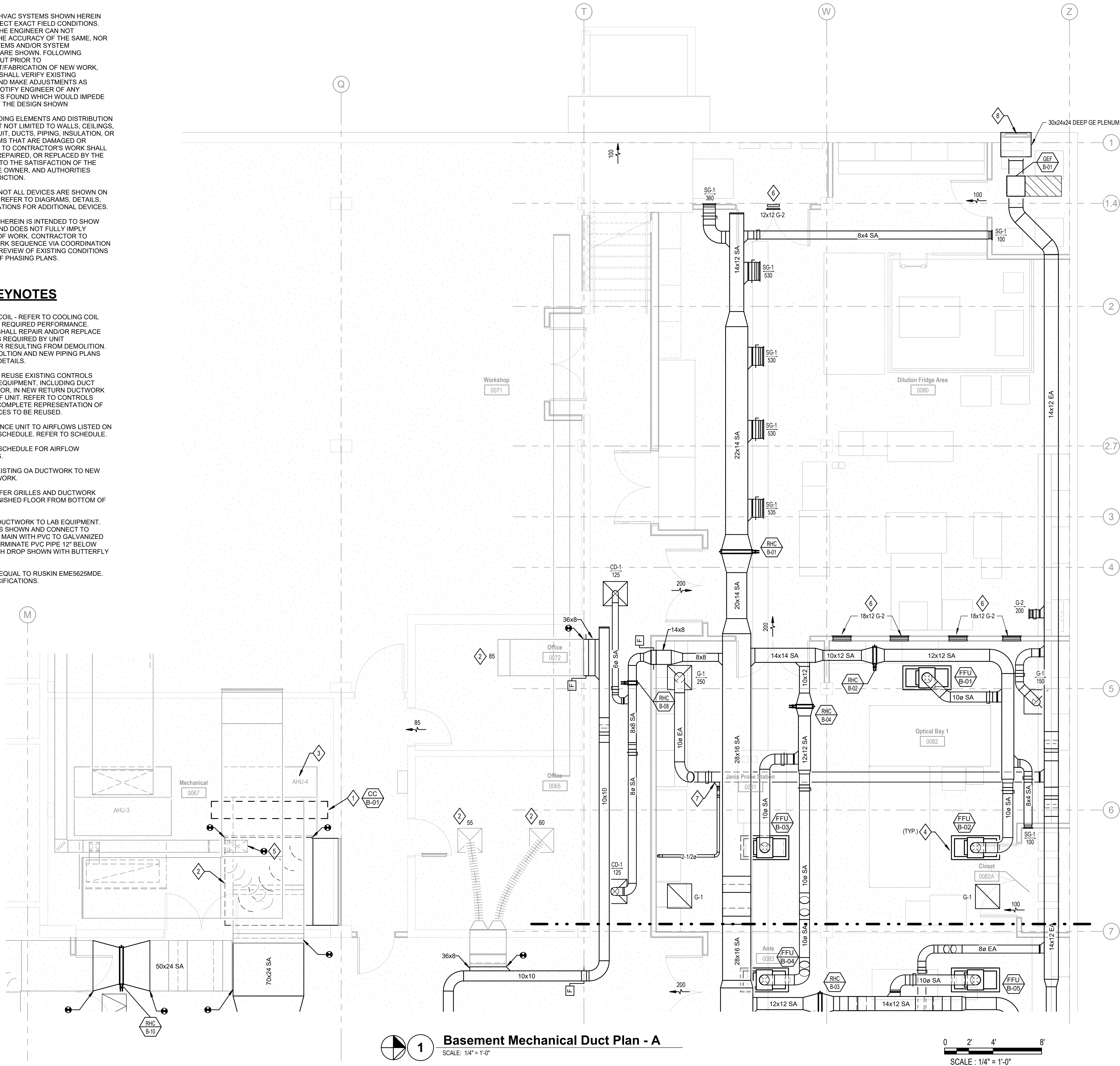


ID:	REVISION:	DRAWN:	REVIEWED:	DATE:
<p>THESE DRAWINGS AND REVISIONS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED CORRECTIONS, REVISIONS, AND COMMENTS ARE THE PROPERTY OF THE ARCHITECT. THESE DRAWINGS AND ASSOCIATED FILES ARE THE PROPERTY OF AIA. THEIR USE, REPRESENTATION OR REPRODUCTION FOR ANY OTHER PROJECT OR AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE & DIRECTLY PLACED ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS.</p>				

Consultant:	Client: Florida State University	PHASE: DESIGN DEVELOPMENT 100% CONSTRUCTION DOCUMENTS PERMIT DOCUMENTS	DRAWN: Designer WRF WRF	REVIEWED: CJT CJT CJT	DATE: 06-13-2025 07-29-2025 08-15-2025
Project #: 19370.58 Phase: Construction Documents	Job Title: Keen Laboratories Remodel Tallahassee, FL				

1. THE EXISTING HVAC SYSTEMS SHOWN HEREIN MAY NOT REFLECT EXACT FIELD CONDITIONS. THEREFORE, THE ENGINEER CAN NOT GUARANTEE THE ACCURACY OF THE SAME, NOR THAT ALL SYSTEMS AND/OR SYSTEM COMPONENTS ARE SHOWN. FOLLOWING DEMOLITION, BUT PRIOR TO PROCUREMENT/FABRICATION OF NEW WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND SPECIFICATIONS. IF ANY DISCREPANCIES ARE FOUND, IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND WHICH WOULD IMPEDE THE INTENT OF THE DESIGN SHOWN
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION INCLUDING BUT NOT LIMITED TO WALLS, CEILING, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, OR OTHER SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE REPAIRED, REFINISHED, OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND AUTHORITIES HAVING JURISDICTION.
3. FOR CLARITY, NOT ALL DEVICES ARE SHOWN ON FLOOR PLANS. REFER TO DIAGRAMS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL DEVICES.
4. WORK SHOWN HEREIN IS INTENDED TO SHOW END RESULT AND DOES NOT FULLY IMPLY THE SEQUENCING OF THE WORK. CONTRACTOR TO ESTABLISH WORK SEQUENCE VIA COORDINATION WITH OWNER, REVIEW OF EXISTING CONDITIONS AND REVIEW OF PHASING PLANS.

1. NEW COOLING COIL - REFER TO COOLING COIL SCHEDULE FOR REQUIRED PERFORMANCE. CONTRACTOR SHALL REPAIR AND/OR REPLACE UNIT CLOSINGS AS REQUIRED BY UNIT MANUFACTURER RESULTING FROM DEMOLITION. REFER TO DEMOLITION AND NEW PIPING PLANS FOR FURTHER DETAILS.
2. RELOCATE AND REUSE EXISTING CONTROLS SENSORS AND EQUIPMENT, INCLUDING DUCT SMOKE DETECTOR, IN NEW RETURN DUCTWORK NEAR INTAKE OF UNIT. REFER TO CONTROLS DIAGRAM FOR COMPLETE REPRESENTATION OF CONTROL DEVICES TO BE REUSED.
3. TAB TO REBALANCE UNIT TO AIRFLOWS LISTED ON COOLING COIL SCHEDULE. REFER TO SCHEDULE.
4. REFER TO FFU SCHEDULE FOR AIRFLOW REQUIREMENTS.
5. RECONNECT EXISTING OA DUCTWORK TO NEW RETURN DUCTWORK.
6. INSTALL TRANSFER GRILLES AND DUCTWORK 10'-0" ABOVE FINISHED FLOOR FROM BOTTOM OF GRILLE.
7. PVC EXHAUST DUCTWORK TO LAB EQUIPMENT. SIZE BRANCH AS SHOWN AND CONNECT TO EXHAUST DUCT MAIN WITH PVC TO GALVANIZED TRANSITION. TERMINATE PVP DUCT 12" BELOW CEILING AT EACH DROP SHOWN WITH BUTTERFLY VALVE.
8. 30x24 LOUVER, EQUAL TO RUSKIN EME5625MDE. REFER TO SPECIFICATIONS.



Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

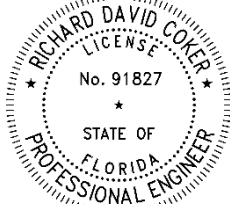
Description:
Basement Mechanical
Duct Plan - A

Sheet No.:

M1.1

THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED COPIES THEREOF INCLUDING ELECTRONIC MEDIA AND THEIR FILES ARE THE PROPERTY OF ALW. THEIR USE, REPRESENTATION OR REPRODUCTION FOR ANY PURPOSE EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING, EXHIBIT, OR RENDERING OF THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS.

ENGINEER-OF-RECORD
Richard D. Coker FL P.E. No. 91827



08/15/2025

This item has been digitally signed and sealed by
Richard David Coker on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified any electronic copies.

[illegible]

DRAWN:	REVIEWED:	DATE:
WRF	CDT	06-13-2025
WRF	CDT	07-29-2025
WRF	CDT	08-15-2025

PHASE:	
DESIGN DEVELOPMENT	
100% CONSTRUCTION DOCUMENTS	
PERMIT DOCUMENTS	

Client: **Florida State University**

Client: **Florida Univ**

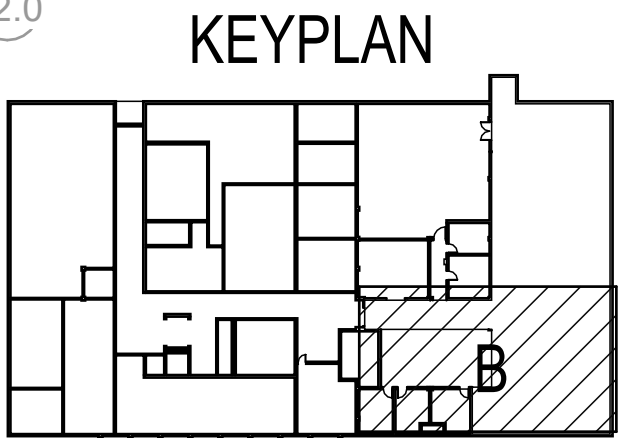
nt:

Consultant:	Project #: 19370.58
	Phase: Construction Documents

Sheet No.:

SHEET KEYNOTES

1. REFER TO FFU SCHEDULE FOR AIRFLOW REQUIREMENTS
2. TAB CONTRACTOR TO REBALANCE EXISTING DIFFUSERS TO CFM SHOWN IN BOLD.
3. ARCHITECTURAL CEILING ACCESS PANEL TO BE INSTALLED AT THIS LOCATION. REFER TO ARCHITECTURAL PLANS.
4. TERMINATE TRANSFER AIR DUCT OPEN ENDED WITH WIRE MESH GRILLE ON BOTH ENDS.
5. PVC EXHAUST DUCTWORK TO LAB EQUIPMENT. SIZE BRANCH AS SHOWN AND CONNECT TO EXHAUST DUCT MAIN WITH PVC TO GALVANIZED TRANSITION. TERMINATE PVC PIPE 12" BELOW CEILING AT EACH DROP SHOWN WITH BUTTERFLY VALVE.
6. CONNECT EXHAUST DUCTWORK TO SNORKEL AT LOCATION SHOWN AND BALANCE BRANCH TO 80 CFM. REFER TO ARCHITECTURAL PLANS.



SCALE: 1/4" = 1'-0"

0 2' 4' 8'

SCALE : 1/4" = 1'-0"

Affiliated Engineers, Inc.
12921 SW 1st Road, Suite 205
Newberry, FL 32669
352-376-5500 aeieng.com

This item has been digitally signed and sealed by
Richard David Coker on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified any electronic copies.

THESE DRAWINGS AND RENDERINGS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED COPIES THEREOF INCLUDING ELECTRONIC MEDIA AND CAD FILES ARE THE PROPERTY OF ALW. THEIR USE, REPRESENTATION OR REPRODUCTION FOR ANY PURPOSE EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT IS PROHIBITED. THIS COPYRIGHT NOTIFICATION SHALL BE TRUE AS IF DIRECTLY PLACED ON EACH DRAWING, EXHIBIT, OR RENDERING ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THE SET DOCUMENTS.

DDT	06-13-2025	
DDT	07-29-2025	
DDT	08-15-2025	

WRF	C
WRF	C
WRF	C

DESIGN DEVELOPMENT
100% CONSTRUCTION DOCUMENTS
PERMIT DOCUMENTS

Florida State University **FSU**

Project #: 19370.58	Phase: Construction Documents
---------------------	-------------------------------

al:

ALW

Architects Lewis + Whitlock
100 West Virginia St.
Gainesville, Florida 32601
352.352.1718
www.think3d.net

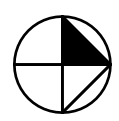
description:
Assessment Mechanical
uct Plan - B

Sheet No.:

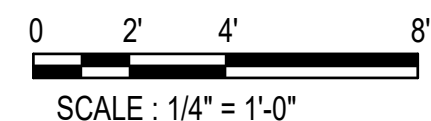
M1.2

1. THE EXISTING HVAC SYSTEMS SHOWN HEREIN MAY NOT REFLECT EXACT FIELD CONDITIONS. THEREFORE, THE ENGINEER CAN NOT GUARANTEE THE ACCURACY OF THE SAME. NOR THAT ALL SYSTEMS AND/OR SYSTEM COMPONENTS ARE SHOWN. FOLLOWING DEMOLITION, BUT PRIOR TO PROCUREMENT/FABRICATION OF NEW WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND MAKE ANY ADJUSTMENTS AS NECESSARY. NOT AN ENGINEER OF ANY DISCREPANCIES FOUND WHICH WOULD IMPDE THE INTENT OF THE DESIGN SHOWN
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, OR OTHER SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE PATCHED, REPAIRED, OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND AUTHORITIES HAVING JURISDICTION.
3. FOR CLARITY, NOT ALL DEVICES ARE SHOWN ON FLOOR PLANS. REFER TO DIAGRAMS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL DEVICES.
4. WORK SHOWN HEREIN IS INTENDED TO SHOW END RESULT AND DOES NOT FULLY IMPLY SEQUENCING OF WORK. CONTRACTOR TO ESTABLISH WORK SEQUENCING IN COORDINATION WITH OWNER, REVIEW OF EXISTING CONDITIONS AND REVIEW OF PHASING PLANS.

1. NEW COOLING COIL - REFER TO COOLING COIL SCHEDULE. CONTRACTOR TO RECONNECT EXISTING CHILLED WATER, SUPPLY, RETURN, AND CONDENSATE LINES TO UNIT AFTER INSTALLATION OF CHILLED WATER PIPING AND ACCESSORIES, INCLUDING CHILLED WATER CONTROL VALVE. SHALL BE RECONNECTED. PERFORMANCE OF SUCH VALVES AND ACCESSORIES SHALL BE VERIFIED AND REPORTED TO ENGINEER IF INOPERATIVE OR DAMAGED.
2. PROVIDE EQUIPMENT SHUT-OFF VALVES AND PRESSURE GAUGES ON CHILLED WATER SUPPLY AND RETURN LINES SERVING HEAT EXCHANGER. ADDITIONALLY, PROVIDE WYE STRAINER ON SUPPLY LINE, DOWNSTREAM OF SHUT-OFF VALVE. TERMINATE PIPING OPEN-ENDED 40" AFF.
3. PROVIDE SHUT-OFF VALVES FOR NEW HEATING HOT WATER AND CHILLED WATER LINES.
4. PROVIDE FIVE (5) 4" WALL SLEEVES 100" AFF FOR OWNER-FURNISHED HOSES AND CABLING. COORDINATE FINAL LOCATIONS WITH OWNER. WALL SLEEVES SHALL BE HILTI CS-SL SA. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
5. PROVIDE TRAPEZES FROM CLOSET TO EQUIPMENT FOR THE SUPPORT OF OWNER-FURNISHED HOSES AND CABLING. TRAPEZE AND SLEEVES SHALL BE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STEEL JOINTS. EFFOUS MEMBERS IN DILUTION FRIDGE AREA. IN ACCORDANCE WITH SPECIFICATIONS. COORDINATE FINAL ROUTING WITH OWNER.



1 **Basement Mechanical Piping Plan - A**
SCALE: 1/4" = 1'-0"



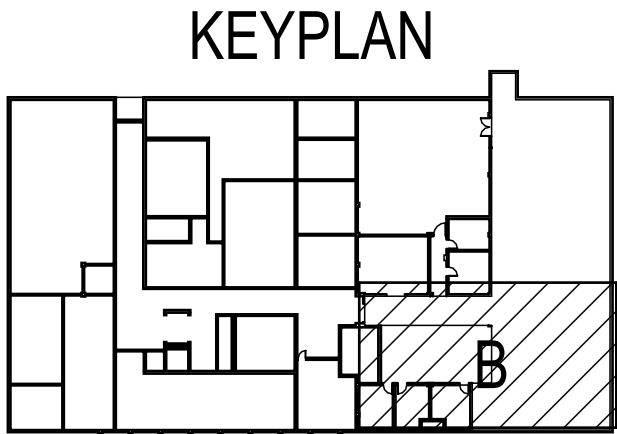
ALW

Description:
Basement Mechanical
Piping Plan - A

M2.1

8/15/2025 1:54:25 PM

1. THE EXISTING HVAC SYSTEMS SHOWN HEREIN MAY NOT REFLECT EXACT FIELD CONDITIONS. THEREFORE, THE ENGINEER CAN NOT GUARANTEE THE ACCURACY OF THE SAME, NOR THAT ALL SYSTEMS AND/OR SYSTEM COMPONENTS ARE SHOWN. FOLLOWING DEMOLITION, BUT PRIOR TO PROCUREMENT/FABRICATION OF NEW WORK, CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REQUIREMENTS AS NECESSARY. NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND WHICH WOULD IMPEDE THE INTENT OF THE DESIGN SHOWN
2. EXISTING BUILDING ELEMENTS AND DISTRIBUTION INCLUDING BUT NOT LIMITED TO WALLS, CEILINGS, LIGHTS, CONDUIT, DUCTS, PIPING, INSULATION, OR OTHER SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO CONTRACTOR'S WORK SHALL BE REBATCHED, REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, THE OWNER, AND AUTHORITIES HAVING JURISDICTION.
3. FOR CLARITY, NOT ALL DEVICES ARE SHOWN ON FLOOR PLANS. REFER TO DIAGRAMS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL DEVICES.
4. WORK SHOWN HEREIN IS INTENDED TO SHOW END RESULT AND DOES NOT FULLY IMPLY THE EXTENDING OF WORK. CONTRACTOR TO ESTABLISH WORK SEQUENCE VIA COORDINATION WITH OWNER, REVIEW OF EXISTING CONDITIONS AND REVIEW OF PHASING PLANS.

[illegible]

Seal:

ALW

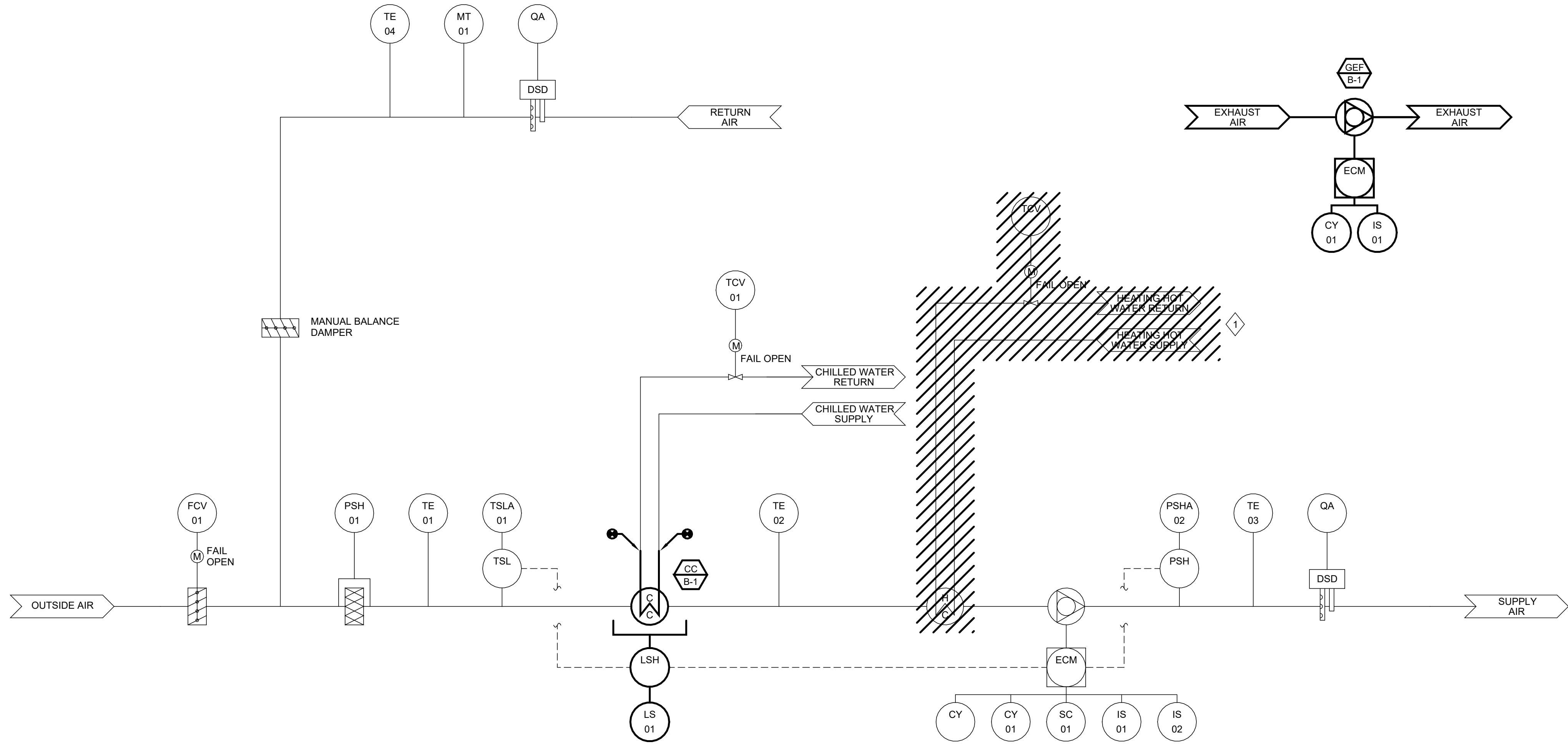
Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
**Basement Mechanical
Piping Plan - B**

Sheet No.:
M2.2

				USER INFORMATION								
				POINT TYPE		SETPOINT VALUE			ALARM CONDITION			
TAG	POINT DESCRIPTION	UNITS	POINT NAME	ANALOG	DIGITAL	INTEGRATED	DEFAULT	MAXIMUM	MINIMUM	HIGH LIMIT	LOW LIMIT	ALARM DELAY (MIN)
HARDWARE												
CY 01	SUPPLY FAN RUN COMMAND	START/STOP	KE_AHU04.SAF		X							
FCV 01	OUTSIDE AIR DAMPER POSITION	% OPEN	KE_AHU04.OAD	X								
IS 01	SUPPLY FAN 1 STATUS	ON/OFF	KE_AHU04.SAF1		X							
IS 02	SUPPLY FAN 2 STATUS	ON/OFF	KE_AHU04.SAF2		X							
MT 01	RETURN AIR HUMIDITY	% RH	KE_AHU04.RAH	X								
PSH 01	DIRTY FILTER ALARM STATUS	NORMAL/ALARM	KE_AHU04.FIL		X							
PSHA 02	HIGH STATIC ALARM STATUS	NORMAL/ALARM	KE_AHU04.HSP		X					4.0		
PT 01	SUPPLY AIR STATIC PRESSURE	IN WG	KE_AHU04.SSP	X								
SC 01	SUPPLY FAN SPEED	%	KE_AHU04.SVD	X								
TE 01	MIXED AIR TEMP	DEG F	KE_AHU04.MAT	X								
TE 02	COOLING COIL LEAVING AIR TEMPERATURE	DEG F	KE_AHU04.CCT	X								
TE 03	SUPPLY AIR TEMPERATURE	DEG F	KE_AHU04.SAT	X								
TE 04	RETURN AIR TEMPERATURE	DEG F	KE_AHU04.RAT	X								
TCV 01	COOLING COIL VALVE POSITION	% OPEN	KE_AHU04.CCV	X								
TSLA 01	LOW TEMPERATURE ALARM STATUS	NORMAL/ALARM	KE_AHU04.LTD		X						38.0	
SOFTWARE												
SDP	SYSTEM ENABLE	ON/OFF	(1)		X							
SDP	COOLING COIL LEAVING AIR TEMPERATURE SETPOINT	DEG F	(1)	X								
SDP	ACTIVE ECM SUPPLY FAN SPEED SETPOINT	% SPEED	(1)	X								

NOTES:
(1) COORDINATE POINT NAME WITH OWNER.



AIR HANDLING UNIT CONTROL SEQUENCE

- GENERAL:
 - THIS CONTROLS DIAGRAM CAPTURES MODIFICATIONS TO THE EXISTING AIR HANDLING UNIT SEQUENCE. SEQUENCES BELOW REPRESENT THE FINAL INTENDED PERFORMANCE OF THE UNIT. CONTRACTOR TO REMOVE OR REVISE EXISTING SEQUENCES NOT CAPTURED IN THIS DIAGRAM TO ELICIT THE INTENDED PERFORMANCE AS NECESSARY.
 - AIR HANDLING UNIT SYSTEM IS A SINGLE DUCT, CONSTANT VOLUME WITH TERMINAL REHEAT SYSTEM AND INTERLOCKED EXHAUST FAN.
 - INTERLOCKED EXHAUST FAN IS A CONSTANT VOLUME EXHAUST FAN. EXHAUST FAN HAS LOCAL MOUNTED SPEED CONTROL FOR TEST AND BALANCE (TAB).
 - AIR HANDLING UNIT SYSTEM SHALL OPERATE CONTINUOUSLY (24 HOURS PER DAY, 365 DAYS PER YEAR).
 - TAB AND OWNER SHALL ESTABLISH ACTIVE ECM SPEED SETPOINT FOR THE AIR HANDLING UNIT AND MANUAL SPEED SETTING OF EXHAUST FAN TO ACHIEVE DESIGN AIR FLOW RATES AS SCHEDULED.
- UNIT OPERATION:
 - AIR HANDLING UNIT AND INTERLOCKED EXHAUST FAN SHALL BE STARTED AND STOPPED AUTOMATICALLY THROUGH THE BUILDING AUTOMATION SYSTEM. PROOF OF FAN OPERATION IS PROVIDED BY THE MOTOR CURRENT SWITCH.
 - IF AIR HANDLING UNIT IS SIGNALLED TO START AND DOES NOT START WITHIN 20 SECONDS (ADJ.) OF THE START COMMAND OR IF THE OPERATING FAN FAILS AS DETECTED BY THE MOTOR CURRENT SWITCH, THE AIR HANDLING UNIT AND INTERLOCKED EXHAUST FAN SHALL BE COMMANDED TO SHUTDOWN PER THE SEQUENCE BELOW AND AN ALARM SHALL BE GENERATED.
 - IF INTERLOCKED EXHAUST FAN IS SIGNALLED TO START AND DOES NOT START WITHIN 60 SECONDS (ADJ.) OF THE START COMMAND, THE FAN SHALL BE DE-ENERGIZED AND AN ALARM SHALL BE GENERATED. AIR HANDLING UNIT SHALL CONTINUE TO RUN AND OPERATE NORMALLY.
- UNIT START UP:
 - UPON START COMMAND FROM THE BAS, UNIT SHALL START UP ACCORDING TO THE FOLLOWING ORDER:
 - COOLING COIL TEMPERATURE CONTROL SEQUENCE ACTIVATES.
 - SUPPLY FANS START AT THEIR MINIMUM SPEED OF 20 HZ (ADJ.) AND ARE PROVEN.
 - INTERLOCKED GENERAL EXHAUST FAN (GEF B-1) IS COMMANDED ON AND PROVEN.
- COOLING COIL LEAVING AIR TEMPERATURE CONTROL:
 - THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN A CONSTANT COOLING COIL LEAVING AIR TEMPERATURE AS MEASURED BY THE COOLING COIL LEAVING AIR TEMPERATURE SENSOR LOCATED DOWNSTREAM OF THE COOLING COIL. COOLING COIL LEAVING AIR TEMPERATURE SETPOINT IS INDICATED IN POINTLIST.
 - UPON RISE IN COOLING COIL LEAVING AIR TEMPERATURE ABOVE SETPOINT, CHILLED WATER CONTROL VALVE SHALL MODULATE OPEN.
 - UPON DROP IN COOLING COIL LEAVING AIR TEMPERATURE BELOW SETPOINT, CHILLED WATER CONTROL VALVE SHALL MODULATE CLOSED.
- UNIT FAN SPEED:
 - THE SUPPLY FAN SHALL MAINTAIN A CONSTANT AIRFLOW AS SET BY TEST AND BALANCE.
- EXHAUST FAN SPEED:
 - THE EXHAUST FAN SHALL MAINTAIN A CONSTANT AIRFLOW AS SET BY TEST AND BALANCE.
- SAFETIES:
 - UPON DETECTION OF WATER IN THE PRIMARY DRAIN PAN, THE AIR HANDLING UNIT AND INTERLOCKED EXHAUST FAN SHALL BE COMMANDED TO SHUTDOWN PER THE SEQUENCE BELOW AND AN ALARM SHALL BE GENERATED.
 - IF THE LOW TEMPERATURE ALARM (FREEZESTAT) IS TRIPPED, INITIATE SHUTDOWN SEQUENCE AS DESCRIBED BELOW BUT IN LIEU OF CLOSING CHILLED WATER CONTROL VALVE, VALVE SHALL BE COMMANDED TO FULL OPEN. THE LOW TEMPERATURE ALARM MUST BE MANUALLY RESET. ONCE MANUALLY RESET, THE AHU SYSTEM SHALL RESTART AUTOMATICALLY.
 - UPON ACTIVATION OF FIRE/SMOKE ALARM AT THE UNIT OR INTERLOCKED FANS, ALL FANS SHALL BE COMMANDED TO STOP AND AN ALARM SHALL BE GENERATED THROUGH THE BUILDING AUTOMATION SYSTEM.
- SHUTDOWN SEQUENCE:
 - UPON SHUTDOWN COMMAND, THE FOLLOWING SHALL OCCUR:
 - SUPPLY FAN SHALL BE SIGNALLED TO STOP AND SHALL SLOWLY RAMP DOWN AND BE PROVEN BY ITS CURRENT SENSING DEVICES.
 - INTERLOCKED EXHAUST FAN SHALL BE SIGNALLED TO STOP AND BE PROVEN BY ITS CURRENT SENSING DEVICES.
 - ONCE ABOVE NOTED STATUSES HAVE BEEN PROVEN, THE CHILLED WATER CONTROL VALVE SERVING THE AIR HANDLING UNIT SHALL CLOSE.
 - THE SYSTEM SHALL NOT GENERATE NEW ALARMS WHEN THE SYSTEM IS SHUTDOWN.

1 AIR HANDLING UNIT AHU-4 CONTROL DIAGRAM

SCALE: NONE

GENERAL NOTES

- DRAWING IS TYPICAL AND MAY REPRESENT MORE THAN ONE SYSTEM.
- COORDINATE THE INSTALLATION AND FINAL LOCATION OF INSTRUMENTS WITH OTHER TRADES.
- VERIFY ALL CABLE REQUIREMENTS PRIOR TO TERMINATING.
- PROVIDE FINAL I/O ADDRESS, CABLE TAGS, MEDIUM TYPE, ETC.
- SETPOINTS, TIMERS, DELAYS AND ALARM LIMITS ARE ADJUSTABLE AND SHALL BE COORDINATED WITH TAB ENGINEER, MECHANICAL SCHEDULES, AND CONTROL DIAGRAMS.
- PROVIDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT, AND DEVICES NECESSARY FOR A COMPLETE, FULLY FUNCTIONAL BUILDING AUTOMATION SYSTEM AS INTENDED IN THE SEQUENCES OF OPERATION, SPECIFICATIONS, AND CONTROL DRAWINGS.

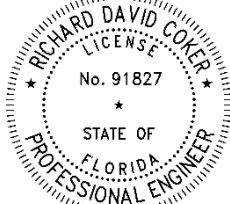
SHEET KEYNOTES

- HEATING HOT WATER COIL SHALL BE DEMOLISHED AT UNIT. REFER TO FLOORPLANS. ALL ASSOCIATED CONTROL POINTS AND SEQUENCES SHALL BE DELETED ACCORDINGLY.



Affiliated Engineers, Inc.
12921 SW 1st Road, Suite 205
Newberry, FL 32669
352-376-5500 aeieng.com

ENGINEER-OF-RECORD
Richard D. Coker FL P.E. No. 91827



08/15/2025

This item has been digitally signed and sealed by Richard David Coker on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS DRAWING AND ANY INFORMATION CONTAINED HEREIN IS THE PROPERTY OF AFFILIATED ENGINEERS, INC. AND ASSOCIATED COMPANIES. THE DRAWING IS TO BE USED FOR THE PROJECT AND NO OTHER USE, REPRODUCTION OR REPRODUCTION FOR ANY PURPOSE EXCEPT BY WRITTEN PERMISSION OF AFFILIATED ENGINEERS, INC. SHALL BE TRUE AND IF DIRECTLY PLACED ON THIS DOCUMENT AND SHALL NOT BE REMOVED FROM THESE DOCUMENTS.

DATE	REVIEWED	DRAWN	REVISION	ID
08-15-2025	RDC	CDT		
07-29-2025	RDC	CDT		
08-15-2025	RDC	CDT		

DATE	REVIEWED	DRAWN	PHASE
08-15-2025	RDC	CDT	DESIGN DEVELOPMENT
07-29-2025	RDC	CDT	100% CONSTRUCTION DOCUMENTS
08-15-2025	RDC	CDT	PERMIT DOCUMENTS

DATE	REVIEWED	DRAWN	PHASE
08-15-2025	RDC	CDT	DESIGN DEVELOPMENT
07-29-2025	RDC	CDT	100% CONSTRUCTION DOCUMENTS
08-15-2025	RDC	CDT	PERMIT DOCUMENTS

Client: Florida State University
Job Title: Keen Laboratories Remodel
Tallahassee, FL

Consultant: Project #: 19370.58
Phase: Construction Documents

Seal:



Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Mechanical Controls

Sheet No.:

M7.1




NOTES:
(1) COORDINATE POINT NAME WITH OWNER.

1. GENERAL:
 - A. CONSTANT VOLUME AIR SUPPLY AND EXHAUST SYSTEM WITH SPACE REHEAT FOR TEMPERATURE CONTROL.
 - B. DUCTED, SINGLE-PASS AIR HEPA FAN FILTER UNITS ARE PROVIDED FOR LOCAL AIR FILTRATION FOR SELECT ROOMS. REFER TO FLOORPLANS.
2. REHEAT COILS:
 - A. SUPPLY AIR REHEAT COIL CONTROL VALVES SHALL MODULATE TO MAINTAIN THE ROOM TEMPERATURE SETPOINT AS SENSED BY THE SPACE TEMPERATURE SENSOR.
3. FAN FILTER UNITS:
 - A. THE FAN FILTER UNITS (FFU) ARE TO OPERATE 24 HOURS PER DAY, 365 DAYS PER YEAR.
 - B. THE SPEED OF THE FFU SHALL MAINTAIN A CONSTANT SPEED AS ORIGINALLY SET BY TAB. SPEED SHALL BE MONITORED AT THE BAS THROUGH A BACNET COMMUNICATION LINK TO EACH UNIT.
 - C. TAB TO CONFIRM AND SET THE SUPPLY CFM FOR EACH FFU PER DUCT PLANS AND FFU SCHEDULE.
4. EMERGENCY POWER:
 - A. ALL FAN FILTER UNITS WILL OPERATE ONLY ON NORMAL POWER.

1. DRAWING IS TYPICAL AND MAY REPRESENT MORE THAN ONE SYSTEM.
2. COORDINATE THE INSTALLATION AND FINAL LOCATION OF INSTRUMENTS WITH OTHER TRADES.
3. VERIFY ALL CABLE REQUIREMENTS PRIOR TO TERMINATING.
4. PROVIDE FINAL I/O ADDRESS, CABLE TAGS, MEDIUM TYPE, ETC.
5. SETPOINTS, TIMERS, DELAYS AND ALARM LIMITS ARE ADJUSTABLE AND SHALL BE COORDINATED WITH TAB ENGINEER, MECHANICAL SCHEDULES, AND CONTROL DIAGRAMS.
6. PROVIDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT, AND DEVICES NECESSARY FOR A COMPLETE, FULLY FUNCTIONAL BUILDING AUTOMATION SYSTEM AS INTENDED IN THE SEQUENCES OF OPERATION, SPECIFICATIONS, AND CONTROL DRAWINGS.

1 APPLIES ONLY TO ROOMS WITH FAN FILTER UNIT(S), AS SHOWN ON FLOORPLANS. ROOMS MAY HAVE MORE THAN ONE FFU SERVING THE SPACE. CONTROL POINTS LISTED ARE TYPICAL FOR EACH FFU.

Consultant:	Client:	<div>Florida State University</div>	<table><thead><tr><th>PHASE:</th><th>DRAWN:</th><th>REVIEWED:</th><th>DATE:</th></tr></thead><tbody><tr><td>DESIGN DEVELOPMENT</td><td>CDT</td><td>RDC</td><td>06-13-2025</td></tr><tr><td>100% CONSTRUCTION DOCUMENTS</td><td>CDT</td><td>RDC</td><td>07-29-2025</td></tr><tr><td>PERMIT DOCUMENTS</td><td>CDT</td><td>RDC</td><td>08-15-2025</td></tr></tbody></table>	PHASE:	DRAWN:	REVIEWED:	DATE:	DESIGN DEVELOPMENT	CDT	RDC	06-13-2025	100% CONSTRUCTION DOCUMENTS	CDT	RDC	07-29-2025	PERMIT DOCUMENTS	CDT	RDC	08-15-2025
PHASE:	DRAWN:	REVIEWED:	DATE:																
DESIGN DEVELOPMENT	CDT	RDC	06-13-2025																
100% CONSTRUCTION DOCUMENTS	CDT	RDC	07-29-2025																
PERMIT DOCUMENTS	CDT	RDC	08-15-2025																
Project #: 19370.58 Phase: Construction Documents	Job Title:	Keen Laboratories Remodel Tallahassee, FL																	

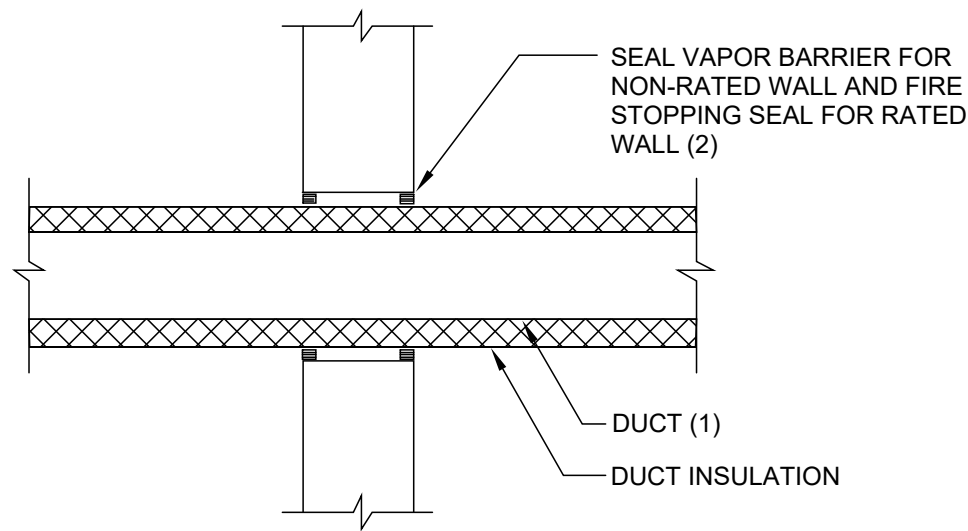
ALW

Description:

Mechanical Controls

M7.2

8/15/2025 1:54:29 PM



SEAL VAPOR BARRIER FOR NON-RATED WALL AND FIRE STOPPING SEAL FOR RATED WALL (2)

DUCT (1)

DUCT INSULATION

DETAIL KEYNOTES:

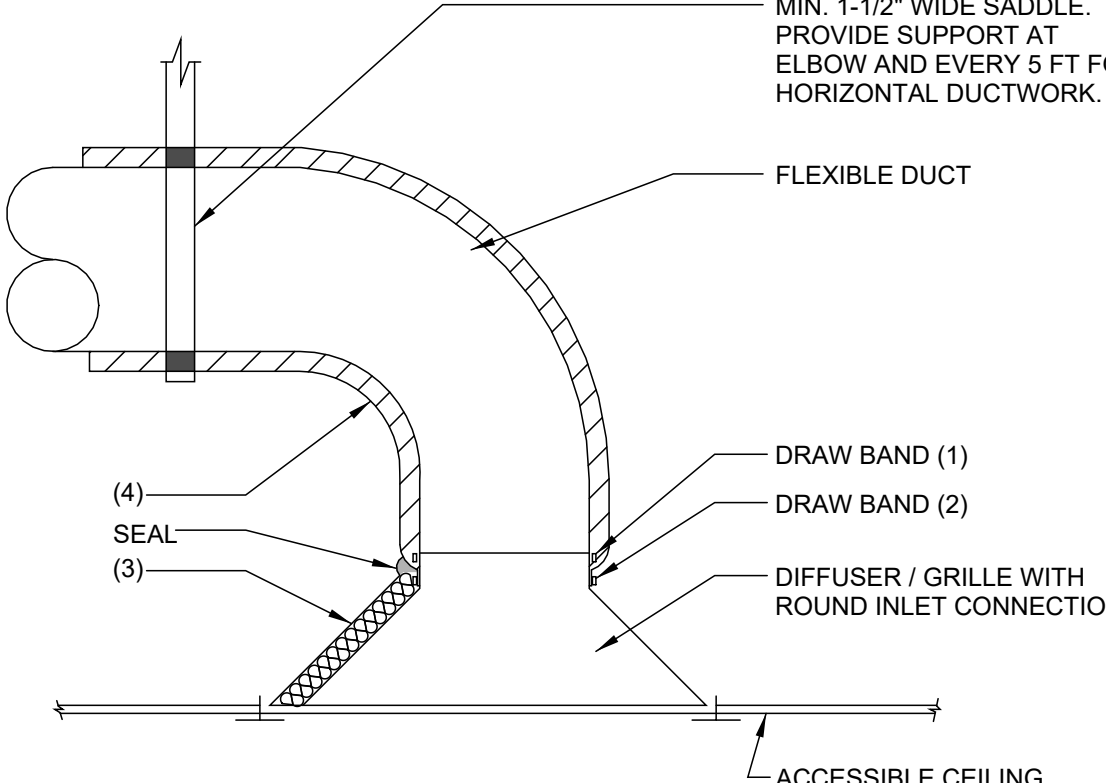
(1) THIS DETAIL APPLIES FOR INSULATED DUCTS THRU WALL WHERE FIRE DAMPER IS NOT REQUIRED.

(2) WHERE WALL IS FIRE RATED, COMBINATION OF SEALANT, BACKING MATERIAL AND INSULATION SHALL MEET THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM MANUFACTURERS.

(SCALE: NONE)

DUCT PENETRATION THRU INTERIOR WALL (INSULATED DUCTS)

7



MIN. 1-1/2" WIDE SADDLE. PROVIDE SUPPORT AT ELBOW AND EVERY 5 FT FOR HORIZONTAL DUCTWORK.

FLEXIBLE DUCT

DRAW BAND (1)

DRAW BAND (2)

SEAL (3)

DIFFUSER / GRILLE WITH ROUND INLET CONNECTION

ACCESSIBLE CEILING

DETAIL KEYNOTES:

(1) PULL FLEXIBLE DUCT'S INNER LINER OVER DIFFUSER COLLAR AND SECURE WITH DRAW BAND.

(2) SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH DRAW BAND.

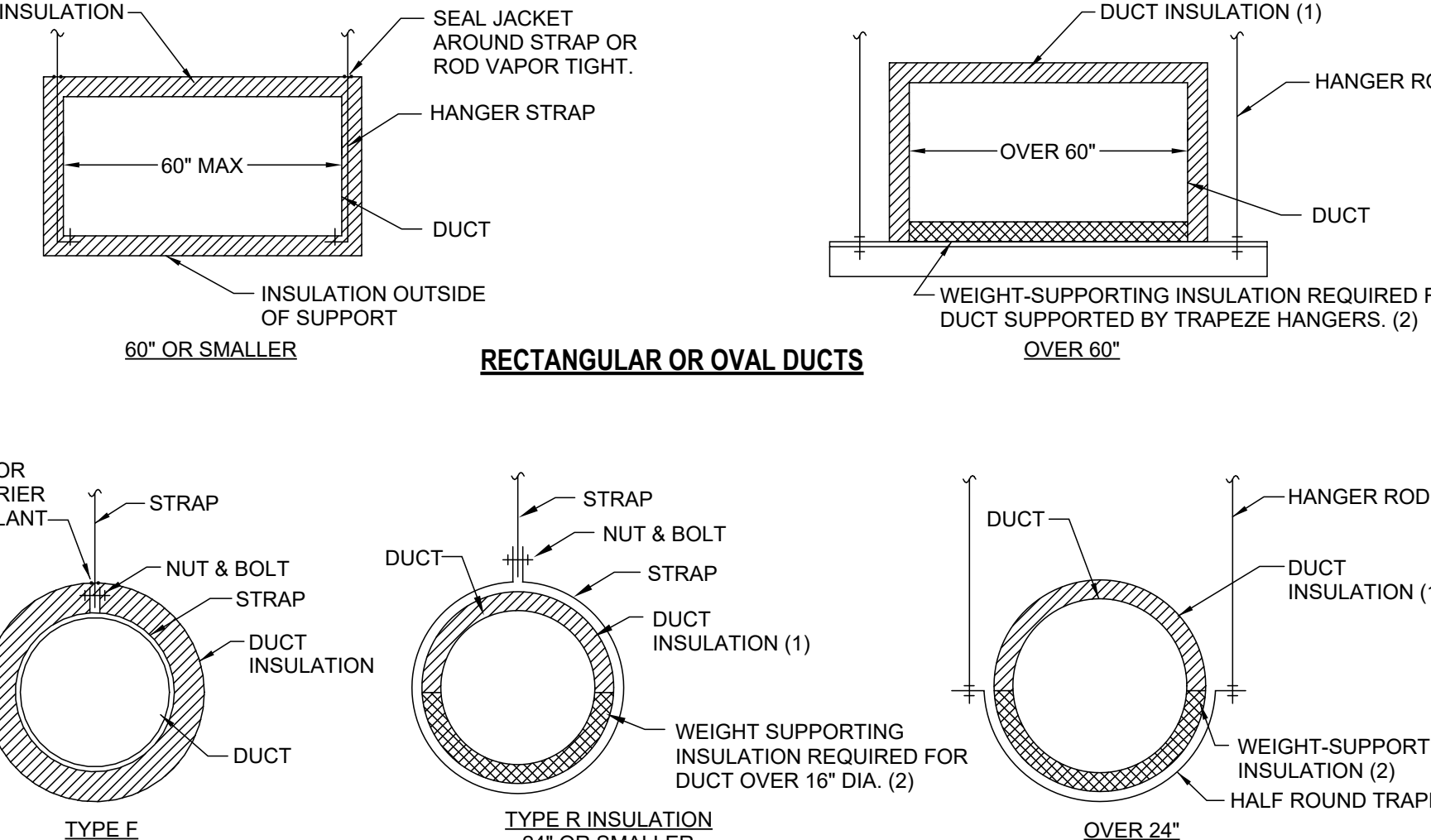
(3) REFER TO SECTION 20 0700 FOR DIFFUSER INSULATION REQUIREMENT.

(4) PROVIDE ELBOW SUPPORT DEVICE SIMILAR TO THERMAFLEX FLEXFLOW ELBOW IF 90° ELBOW SHAPE IS NOT MAINTAINED BY FLEXIBLE DUCT ITSELF.

(SCALE: NONE)

FLEXIBLE DUCT CONNECTION TO DIFFUSER/GRILLE

4



DUCT INSULATION

SEAL JACKET AROUND STRAP OR ROD VAPOR TIGHT.

HANGER STRAP

DUCT

60" OR SMALLER

DUCT INSULATION (1)

HANGER ROD

DUCT

OVER 60"

WEIGHT-SUPPORTING INSULATION REQUIRED FOR DUCT SUPPORTED BY TRAPEZE HANGERS. (2)

OVER 60"

RECTANGULAR OR OVAL DUCTS

VAPOR BARRIER SEALANT

STRAP

NUT & BOLT

STRAP

DUCT INSULATION

DUCT

TYPE F INSULATION 24" OR SMALLER

DUCT

STRAP

NUT & BOLT

STRAP

DUCT INSULATION (1)

DUCT

WEIGHT-SUPPORTING INSULATION REQUIRED FOR DUCT OVER 16" DIA. (2)

TYPE R INSULATION 24" OR SMALLER

DUCT

HANGER ROD

DUCT INSULATION (1)

DUCT

WEIGHT-SUPPORTING INSULATION (2)

HALF ROUND TRAPEZE

OVER 24"

ROUND DUCTS

DETAIL KEYNOTES:

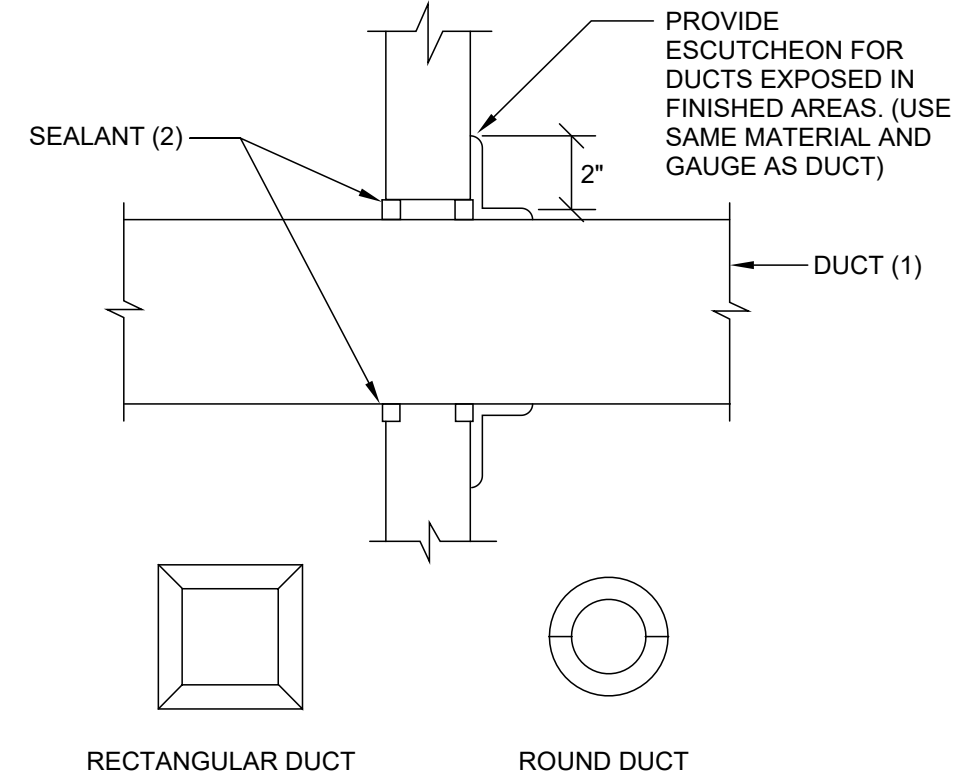
(1) INSULATION AND JACKET MUST RUN CONTINUOUSLY BETWEEN DUCT AND DUCT SUPPORTS, EXCEPT RECTANGULAR DUCTS 60" OR SMALLER AND TYPE F INSULATION ROUND DUCTS 24" OR SMALLER.

(2) REFER TO SPECIFICATIONS FOR WEIGHT-SUPPORTING INSULATION REQUIREMENTS.

(SCALE: NONE)

INSULATED DUCT SUPPORTS

1



SEALANT (2)

PROVIDE ESCUTCHEON FOR DUCTS EXPOSED IN FINISHED AREAS. (USE SAME MATERIAL AND GAUGE AS DUCT)

DUCT (1)

2"

RECTANGULAR DUCT

ROUND DUCT

TYPICAL ESCUTCHEON

DETAIL KEYNOTES:

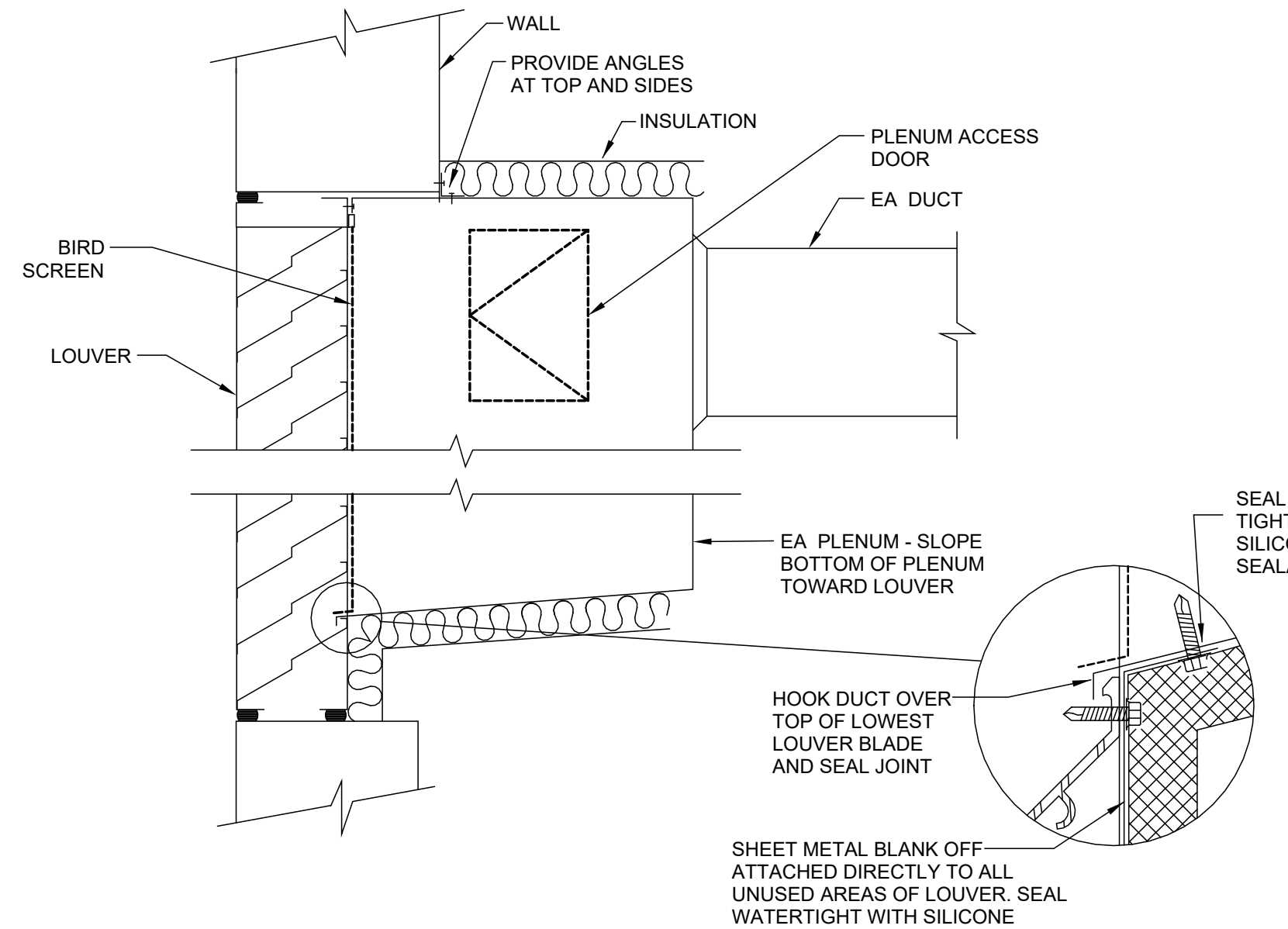
(1) THIS DETAIL APPLIES FOR NON-INSULATED DUCTS THRU WALL WHERE FIRE DAMPER IS NOT REQUIRED.

(2) WHERE WALL IS FIRE RATED, COMBINATION OF SEALANT AND BACKING MATERIAL SHALL MEET THIS RATING. REFER TO SPECIFICATION SECTION 20 0573 FOR FIRE STOPPING SYSTEM MANUFACTURERS.

(SCALE: NONE)

DUCT PENETRATION THRU INTERIOR WALL (NON-INSULATED DUCTS)

8



WALL

PROVIDE ANGLES AT TOP AND SIDES

INSULATION

PLENUM ACCESS DOOR

EA DUCT

BIRD SCREEN

LOUVER

EA PLENUM - SLOPE BOTTOM OF PLENUM TOWARD LOUVER

SEAL WATER TIGHT WITH SILICONE SEALANT

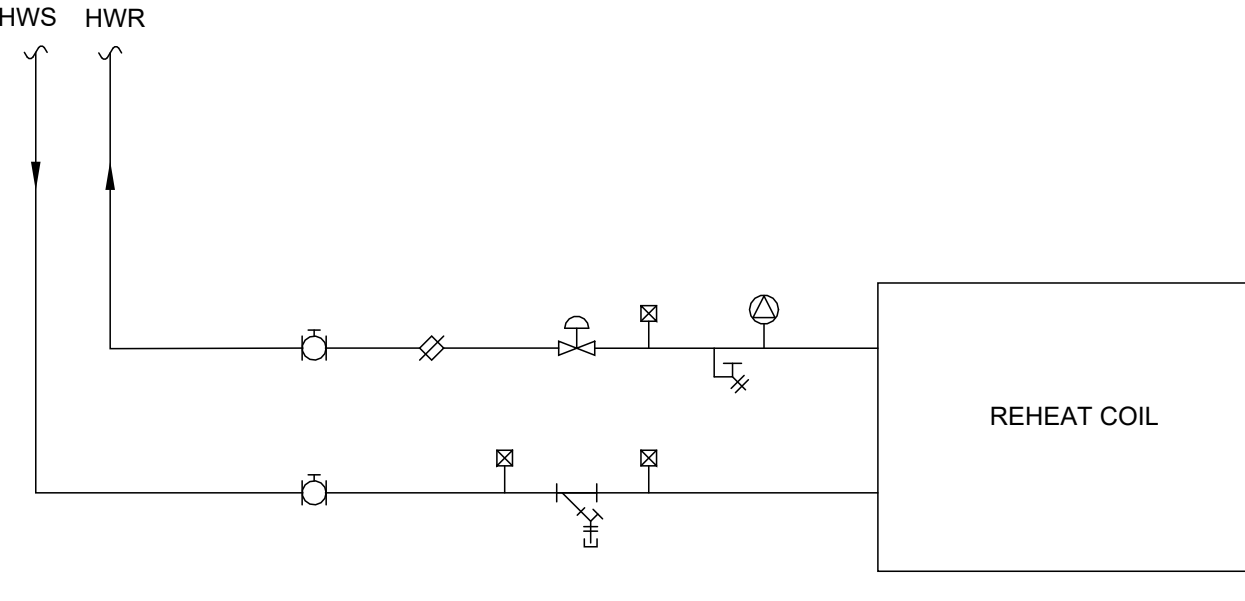
HOOK DUCT OVER TOP OF LOWEST LOUVER BLADE AND SEAL JOINT

SHEET METAL BLANK OFF- ATTACHED DIRECTLY TO ALL UNUSED AREAS OF LOUVER. SEAL WATERTIGHT WITH SILICONE SEALANT

(SCALE: NONE)

EA PLENUM CONNECTION TO NEW LOUVER

5



HWS

HWR

REHEAT COIL

DETAIL NOTES:

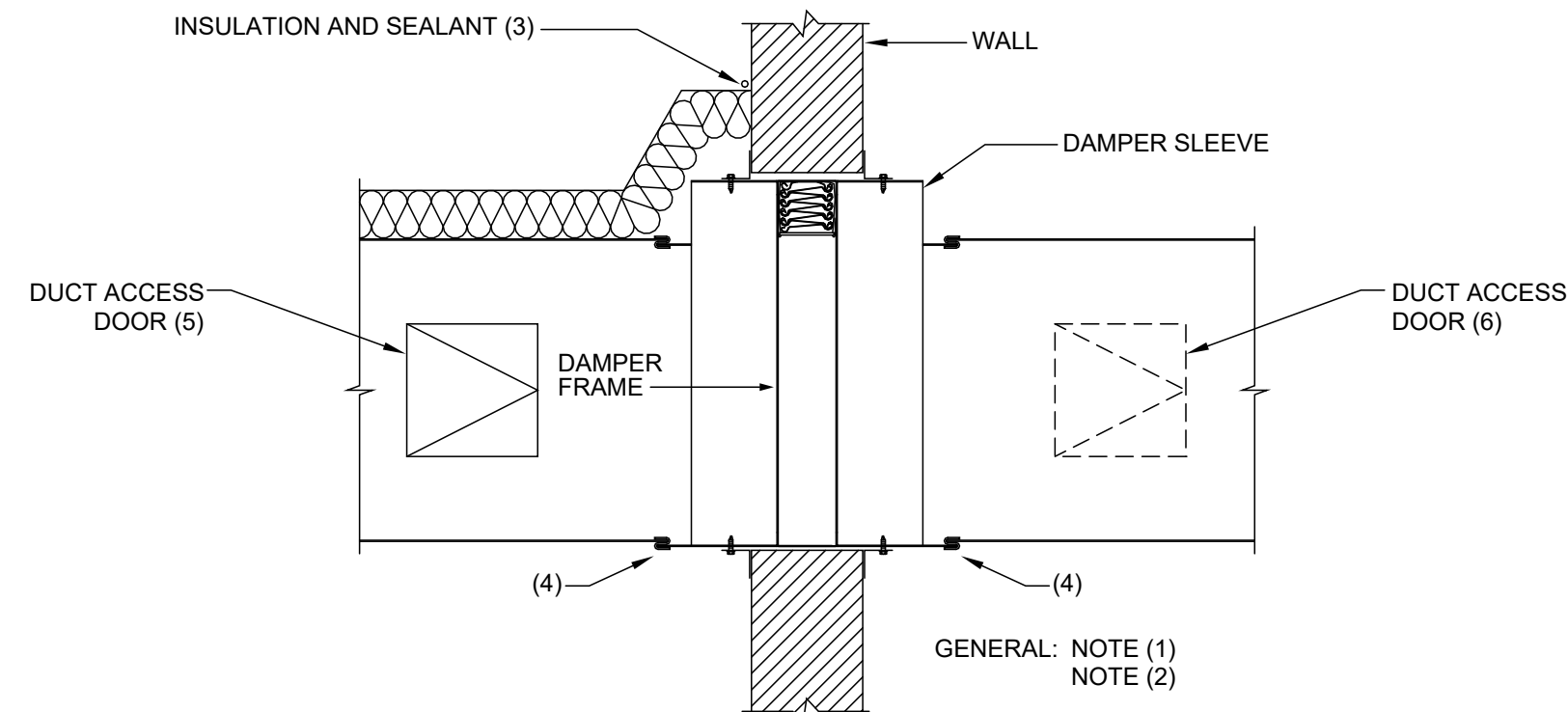
1. PROVIDE STRAIGHT INLET AND OUTLET PIPE LENGTHS FOR BALANCING VALVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

2. PROVIDE MEANS OF BYPASSING COIL, CONTROL, AND BALANCING VALVES DURING FLUSHING.

(SCALE: NONE)

TERMINAL REHEAT COIL PIPING

2



INSULATION AND SEALANT (3)

WALL

DAMPER SLEEVE

DUCT ACCESS DOOR (5)

DAMPER FRAME

DUCT ACCESS DOOR (6)

(4)

(4)

GENERAL: NOTE (1)
NOTE (2)

DETAIL KEYNOTES:

(1) TWO SIDED ANGLE INSTALLATION SHOWN. ONE SIDED ANGLE INSTALLATION MAY BE USED. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PARTICULAR INSTALLATION. GRILLE STYLE FIRE DAMPERS SHALL BE ACCESSIBLE FROM THE GRILLE. NO ACCESS DOOR REQUIRED IN DUCT.

(2) FOR DUCTWORK REQUIRING INSULATION, INSTALL INSULATION AND JACKET TO WALL (ALL SIDES) AND APPLY VAPOR BARRIER TAPE TO PREVENT CONDENSATION. TAPE SHALL BE COMPATIBLE WITH INSULATION JACKET AND WALL SURFACE. APPLY INSULATION OVER FIRE DAMPER AFTER INSPECTION HAS BEEN COMPLETED.

(3) DUCT TO SLEEVE CONNECTION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND NFPA 90A.

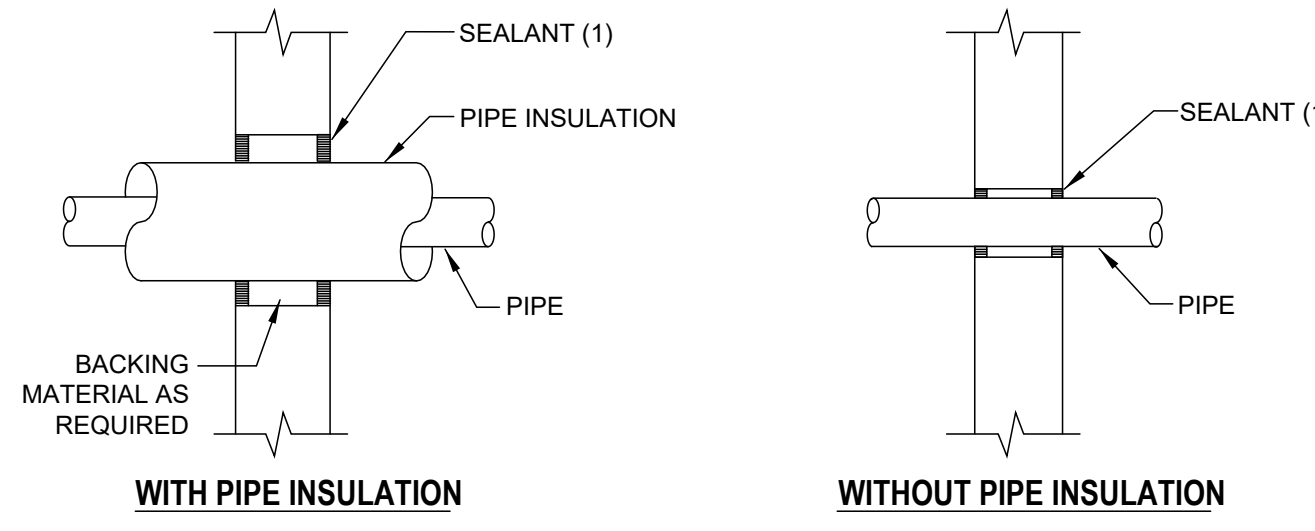
(4) ACCESS DOOR SHALL BE LOCATED ON MOST ACCESSIBLE SIDE. INSTALL ACCESS DOOR AT SIDE OR BOTTOM OF DUCT FOR BEST ACCESS TO DAMPER. ACCESS DOOR SIZE SHALL BE PER SPECIFICATIONS.

(5) FOR ACCESS DOORS LESS THAN 14"x14" AS REQUIRED BY SPECIFICATION SECTION 23 3300, PROVIDE ACCESS DOOR ON BOTH SIDES OF RATED WALL.

(SCALE: NONE)

VERTICAL FIRE DAMPER INSTALLATION

9



SEALANT (1)

PIPE INSULATION

PIPE

BACKING MATERIAL AS REQUIRED

WITH PIPE INSULATION

SEALANT (1)

PIPE

WITHOUT PIPE INSULATION

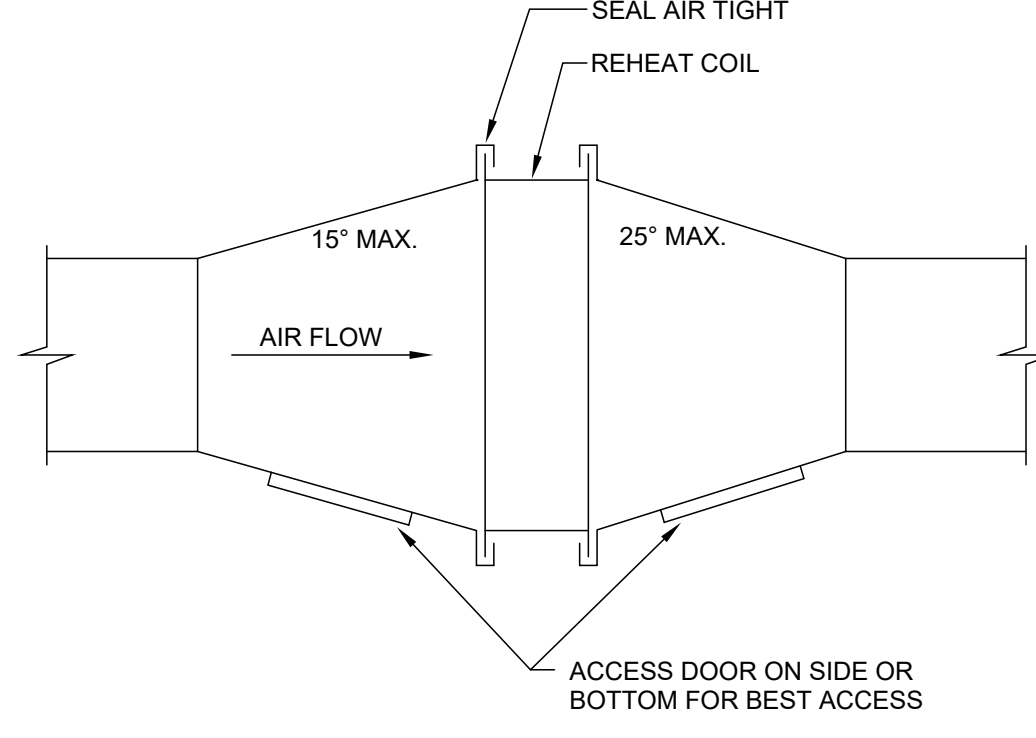
DETAIL KEYNOTES:

(1) SEALING PIPE PENETRATION IS REQUIRED FOR ANY INTERIOR WALL. WHERE WALL IS FIRE RATED, APPLY FIRESTOPPING SYSTEM (COMBINATION OF SEALANT, BACKING MATERIAL AND INSULATION) MEETING THIS RATING.

(SCALE: NONE)

PIPE THRU INTERIOR WALL

6



SEAL AIR TIGHT

REHEAT COIL

15" MAX.

25" MAX.

AIR FLOW

ACCESS DOOR ON SIDE OR BOTTOM FOR BEST ACCESS

(SCALE: NONE)

REHEAT COIL DUCT CONNECTION

3



Affiliated Engineers

Affiliated Engineers, Inc.
12921 SW 1st Road, Suite 205
Newberry, FL 32669
352-376-5500
aeieng.com

ENGINEER-OF-RECORD
Richard D. Coker FL P.E. No. 91827

08/15/2025

This item has been digitally signed and sealed by Richard David Coker on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DATE	REVIEWED	DRAWN	REVISION	ID	DATE	REVIEWED	DRAWN	PHASE	Client	Consultant
					08-15-2025	RDC	CDT	DESIGN DEVELOPMENT	Florida State University	Project #: 19370.58 Phase: Construction Documents
					07-29-2025	RDC	CDT	100% CONSTRUCTION DOCUMENTS		
					08-15-2025	RDC	CDT	PERMIT DOCUMENTS		

Seal:



Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Mechanical Details

Sheet No.:
M8.1

Client: Florida State University

Job Title: Keen Laboratories Remodel

Project #: 19370.58
Phase: Construction Documents

NOTES:

- (1) UNIT SHALL BE REBALANCED TO AIRFLOW LISTED. CONTRACTOR TO ADJUST FAN SPEED AND RETURN MANUAL BALANCING DAMPER AS REQUIRED TO ACHIEVE SCHEDULED AIRFLOWS.
- (2) REPLACEMENT COOLING COIL SECTION SHALL FIT WITHIN THE EXISTING UNIT CABINET WHILE MEETING SCHEDULED PERFORMANCE.
- (3) REPLACEMENT COOLING COIL BASIS OF DESIGN: DAIKIN SWS1008B

NOTES:

(1) BASIS OF DESIGN: GREENHECK SQ-120-VG. PROVIDE FAN WITH SPEED CONTROLLER. REFER TO SPECIFICATION SECTION 23 05 13 FOR MORE REQUIREMENTS

NOTES:

1. PROVIDE DUCT TRANSITIONS AS REQUIRED TO MATCH AIR DISTRIBUTION DEVICE CONNECTION SIZE AS SCHEDULED.
2. UNLESS OTHERWISE INDICATED, PROVIDE WHITE FINISH FOR LAYIN/SURFACE MOUNTED, ALUMINUM FOR EXPOSED AIR DISTRIBUTION DEVICES.
3. UNLESS OTHERWISE INDICATED, CONFIRM AFF HEIGHT FOR ALL WALL MOUNTED AIR DISTRIBUTION DEVICES WITH ARCHITECT.
4. SCHEDULE APPLIES TO ALL AIR DISTRIBUTION DEVICES EXCEPT WHERE DEVICE SIZES ARE CALLED OUT SPECIFICALLY ON PLANS.

NOTES:

(1) 2021 ASHRAE HANDBOOK - FUNDAMENTALS, CLIMATIC DESIGN INFORMATION	(4) MCWB DATA
(2) 0.4% ANNUAL CUMULATIVE FREQUENCY OF OCCURRENCE	(5) MCDB DATA
(3) 99.6% ANNUAL CUMULATIVE FREQUENCY OF OCCURRENCE	

ABBREVIATIONS:	
T DB (TEMPERATURE, DRY BULB)	HR (HUMIDITY RATIO)
T WB (TEMPERATURE, WET BULB)	MADB (MEAN COINCIDENT WET BULB)
RH (RELATIVE HUMIDITY)	MCWB (MEAN COINCIDENT DRY BULB)
T DP (TEMPERATURE, DEW POINT)	

[illegible]

ALW

Sheet No.:

M9.1