

SC DEPARTMENT OF ADMINISTRATION - DIVISION OF FACILITIES MANAGEMENT AND PROPERTY SERVICES

1100 GERVAIS ST, COLUMBIA, SC 29208

SC STATE HOUSE - VAV REPLACEMENT, HVAC CONTROLS AND AHU NO. 1 RE-BUILD

D50-6103-LC

12/10/25

ISSUED FOR: CONSTRUCTION

Prepared by:



Architects/Engineers/Planners
1201 Main Street, Suite 2100
Columbia, South Carolina 29201
tel. 803-256-0000
fax 803-255-7243



DRAWING INDEX

MECHANICAL

M1.0 SUB BASEMENT DEMOLITION PLAN
M1.1 BASEMENT DEMOLITION PLAN
M1.2 FIRST FLOOR DEMOLITION PLAN
M1.3 SECOND FLOOR DEMOLITION PLAN
M1.4 THIRD FLOOR DEMOLITION PLAN
M1.5 ATTIC DEMOLITION PLAN
M2.0 SUB BASEMENT RENOVATION PLAN
M2.1 BASEMENT RENOVATION PLAN
M2.2 FIRST FLOOR RENOVATION PLAN
M2.3 SECOND FLOOR RENOVATION PLAN
M2.4 THIRD FLOOR RENOVATION PLAN
M2.5 ATTIC RENOVATION PLAN
M5.0 MECHANICAL CONTROLS SCHEMATICS
M5.1 MECHANICAL CONTROLS SEQUENCES
M5.2 MECHANICAL CONTROLS SEQUENCES
M5.3 MECHANICAL CONTROLS SEQUENCES
M5.4 MECHANICAL SMOKE EVACUATION SEQUENCES
M5.5 MECHANICAL SMOKE EVACUATION SEQUENCES
M5.6 MECHANICAL SMOKE EVACUATION SEQUENCES
M6.0 MECHANICAL DETAILS
M7.0 MECHANICAL SCHEDULES

ELECTRICAL

E0.0 ELECTRICAL SYMBOLS AND NOTES
E1.1 SUB BASEMENT LIGHTING DEMOLITION PLAN
E1.2 BASEMENT LEVEL POWER DEMOLITION PLAN
E2.1 SUB BASEMENT LIGHTING RENOVATION PLAN
E3.1 BASEMENT LEVEL POWER PLAN
E7.1 ELECTRICAL SCHEDULES

STRUCTURAL

S1.0 STRUCTURAL NOTES, PLAN & DETAILS

CODE DATA

2021 SOUTH CAROLINA BUILDING CODE
2021 SOUTH CAROLINA FIRE CODE
2021 SOUTH CAROLINA PLUMBING CODE
2021 SOUTH CAROLINA MECHANICAL CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2020 NATIONAL ELECTRIC CODE (NFPA 70) WITH SOUTH CAROLINA MODIFICATIONS

GENERAL N

GENERAL NOTES:

- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR

WORK TO BE COMPLETED SIMULTANEOUSLY.

- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING

- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-9585.

DEMOLITION NOTES:

- 1** REMOVE EXISTING VAV BOX AND ASSOCIATED CONTROLS. EXISTING CONTROL WIRE AND PNEUMATICS TO BE COMPLETELY REMOVED. REMOVE TRANSITIONS TO SUPPLY DUCTS ON EITHER SIDE OF VAV BOX. SUPPLY DUCTS TO REMAIN INTACT FOR CONNECTION TO NEW TRANSITIONS FOR NEW VAV'S. REMOVE EXISTING VALVE PACKAGES FOR VAV BOXES WITH REHEAT. EXISTING THERMOSTAT IN SPACES SERVED TO BE REMOVED.
- 2** REMOVE EXISTING DAMPER AND MAINTAIN DUCT FOR INSTALLATION OF NEW DAMPER. REMOVE EXISTING ACTUATOR AND PNEUMATIC LINES BACK TO SOURCE.
- 3** MINI-SPLIT TO BE REMOVED FROM EXISTING CONTROL SYSTEM.

MINI-SPLIT CONDENSING UNIT SERVING PROJECTOR ROOM

CU-1-1

38" x 14"

28" x 14"

V-1, V-2, V-3, V-4, V-5, V-6, V-7, V-8, V-9, V-10, V-11, V-12, V-13, V-14, V-15, V-16, V-17, V-18, V-19, V-20, V-21, V-22, V-23, V-24, V-25, V-26, V-27, V-28, V-29, V-30, V-31

SD 108, SD 109, SD 110, SD 114, SD 115

DEMOLITION NOTES

DEMOLITION NOTES:

- 1 REMOVE EXISTING VAV BOX AND ASSOCIATED CONTROLS. EXISTING CONTROL WIRE AND PNEUMATICS TO BE COMPLETELY REMOVED. REMOVE TRANSITIONS TO SUPPLY DUCTS ON EITHER SIDE OF VAV BOX, SUPPLY DUCTS TO REMAIN INTACT FOR CONNECTION TO NEW TRANSITIONS FOR NEW VAV'S. REMOVE EXISTING VALVE PACKAGES FOR VAV BOXES WITH REHEAT. EXISTING THERMOSTAT IN SPACES SERVED TO BE REMOVED.
- 2 REMOVE EXISTING DAMPER AND MAINTAIN DUCT FOR INSTALLATION OF NEW DAMPER. REMOVE EXISTING ACTUATOR AND PNEUMATIC LINES BACK TO SOURCE.
- 3

owner
**SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES**

project name
**SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD**
project number

project number
JOB NO D50-6103-1

seals/signature

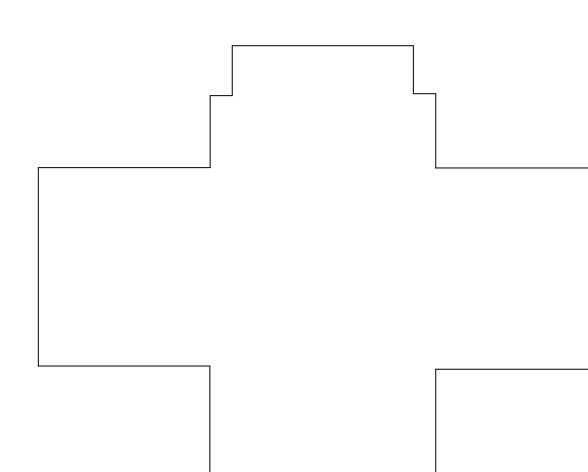


issued for
CONSTRUCTION

date
12/10/25

<i>number</i>	<i>item</i>	<i>date</i>
---------------	-------------	-------------

key plan



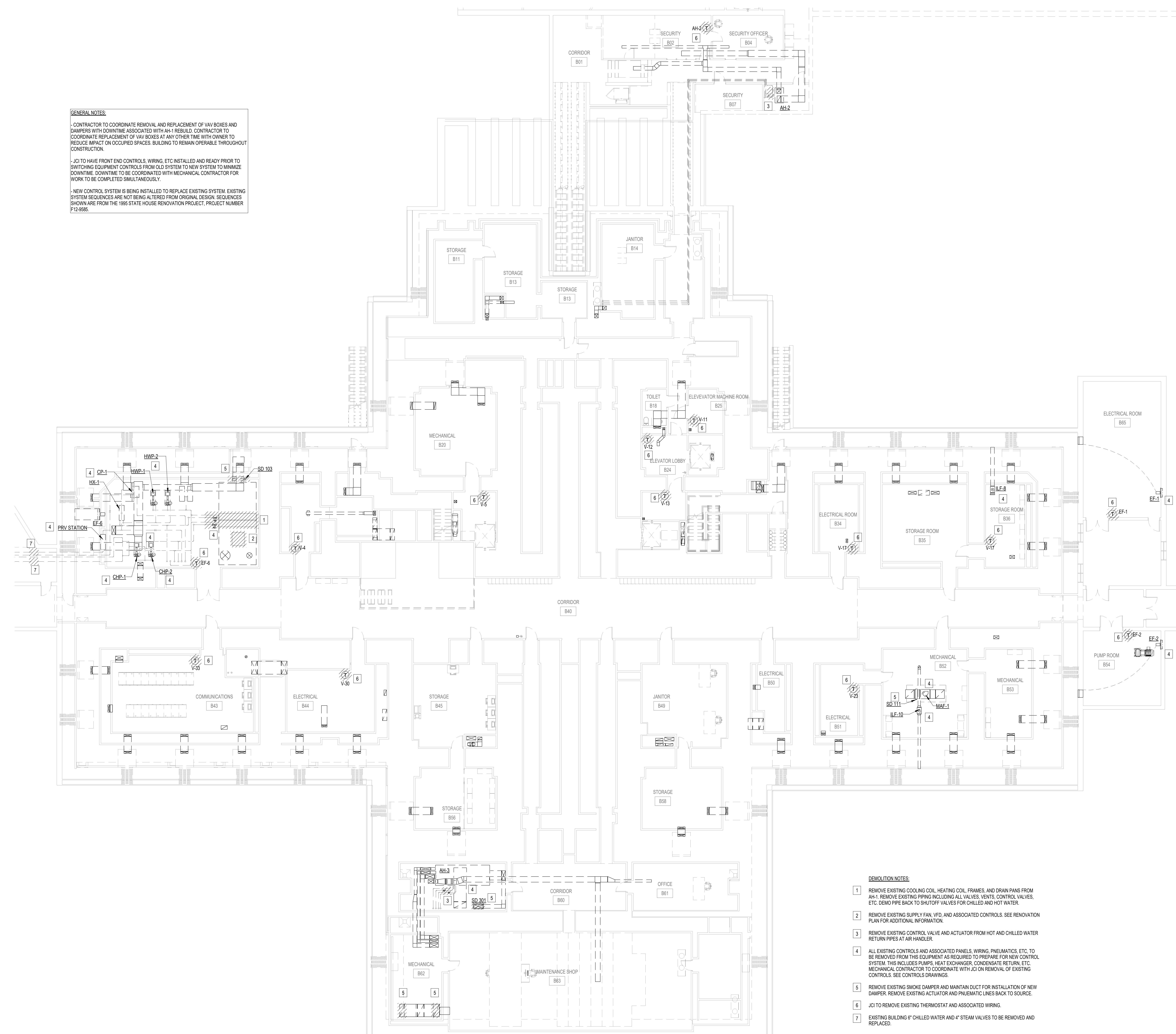
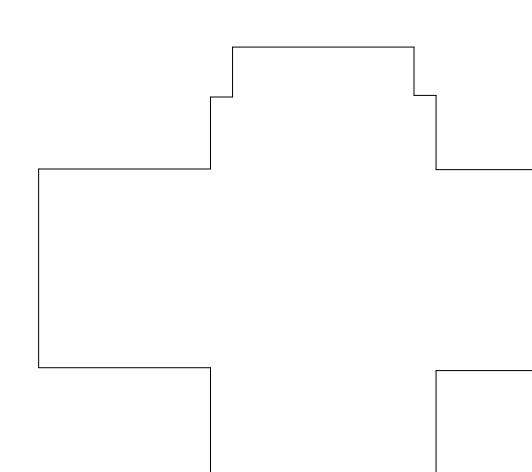
sheet title

SUB BASEMENT DEMOLITION PLAN

sheet number

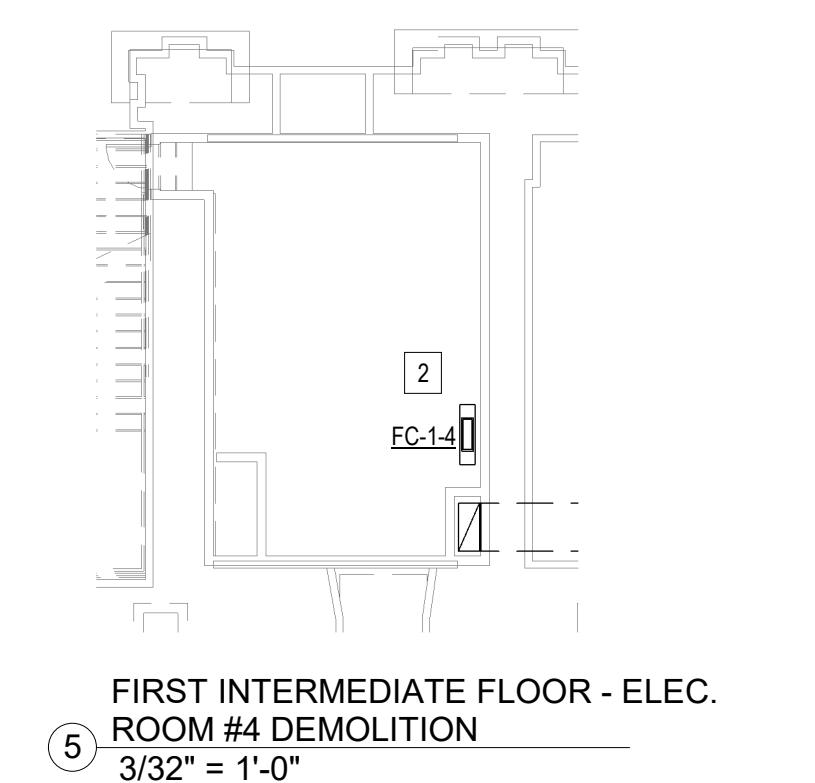
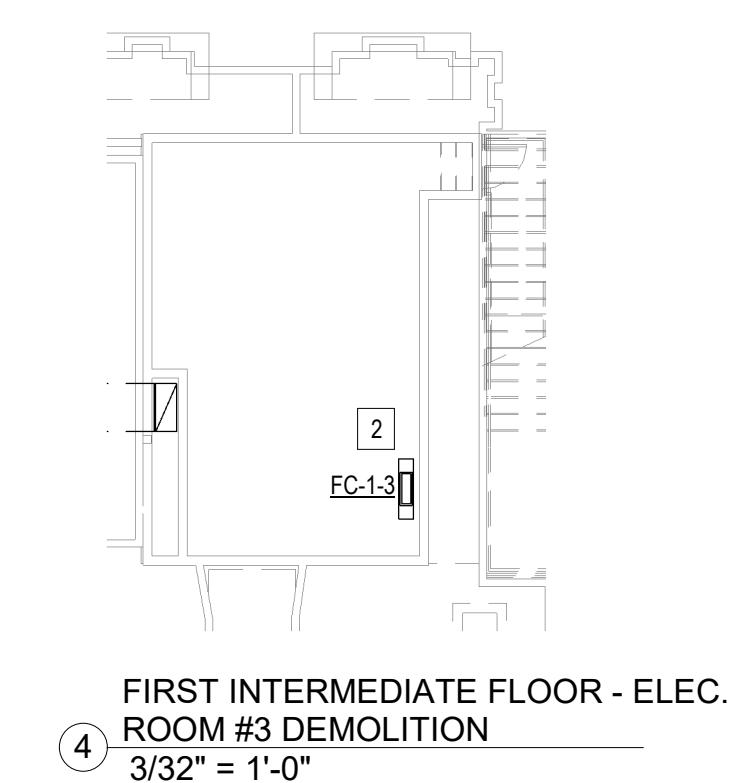
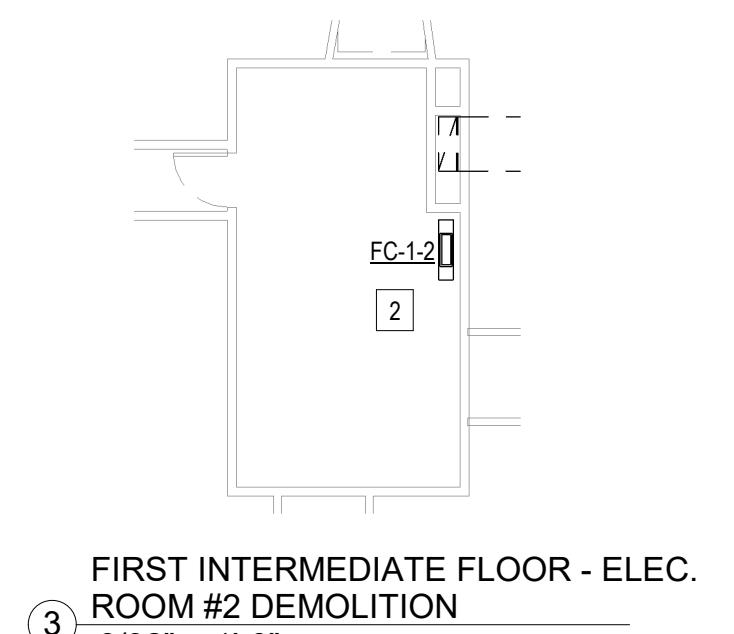
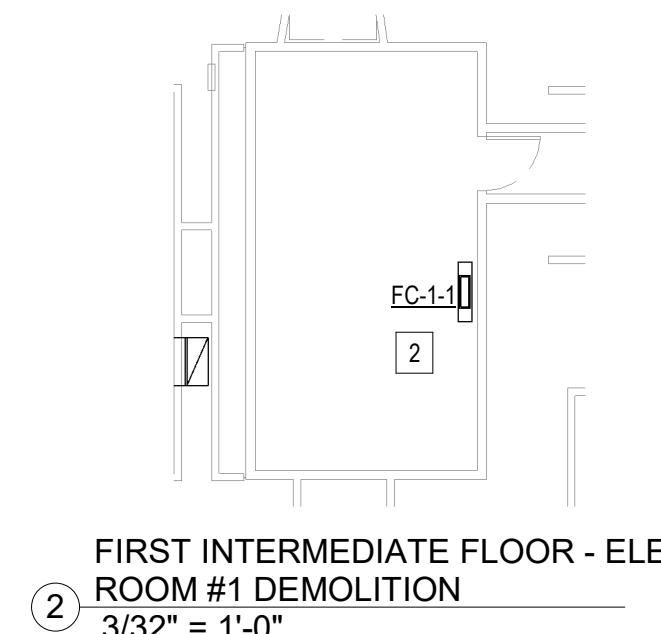
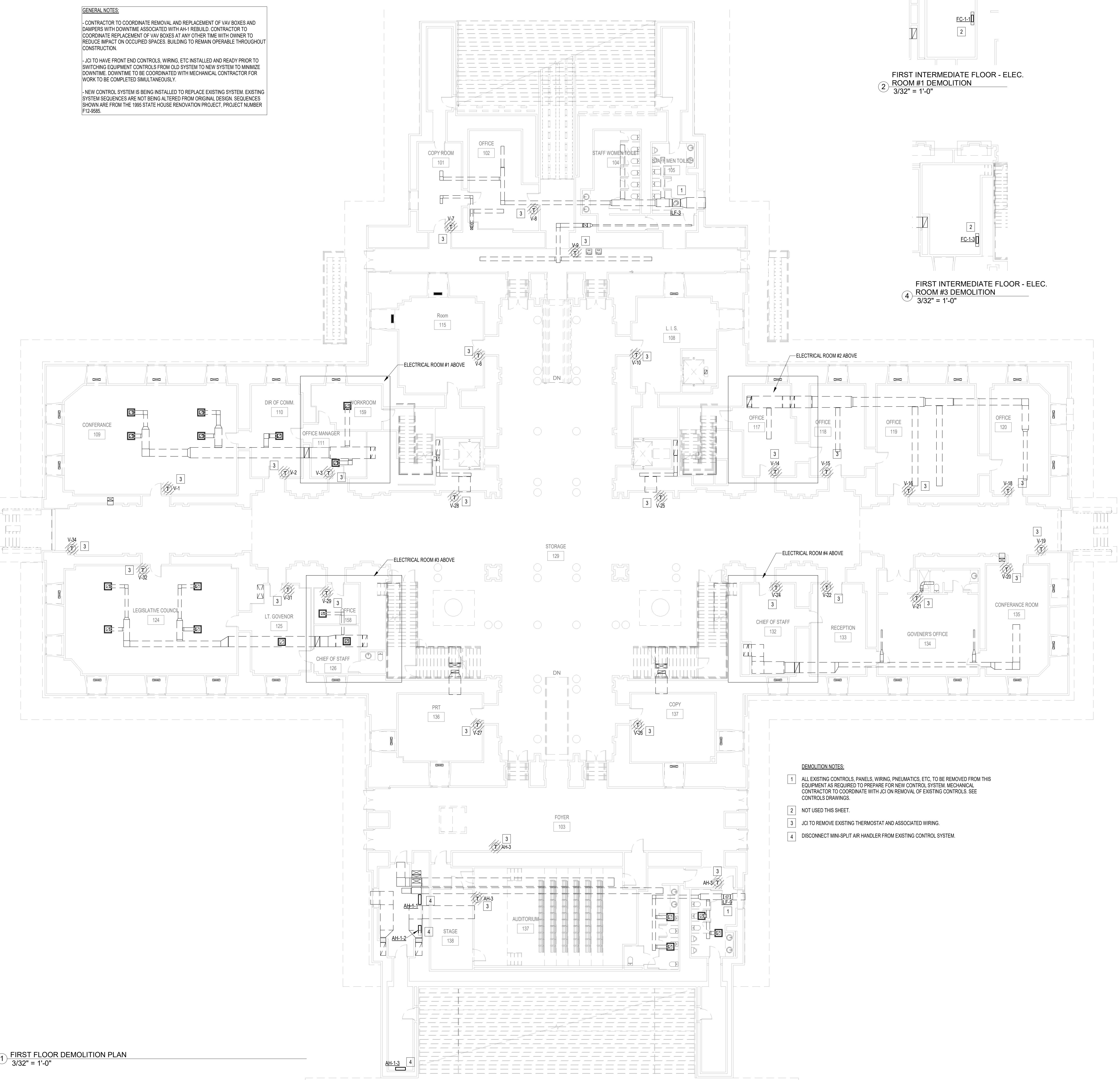
M1.0

drawn by Author
checked by Checker



GENERAL NOTES

- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.
- JCI TO REMOVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PROG TO SWITCHEING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-9585.



owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature

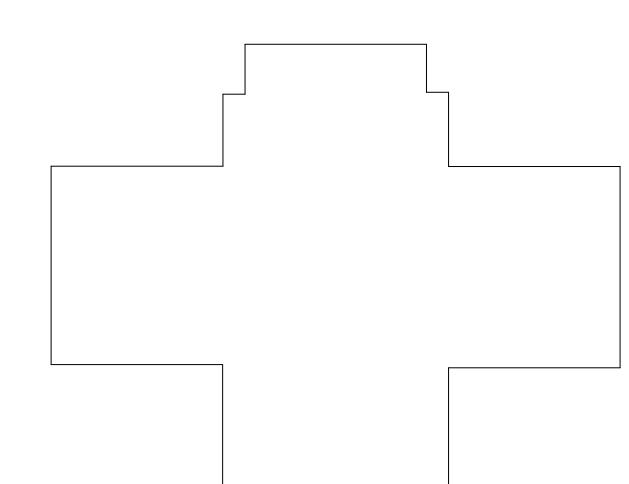


issued for
CONSTRUCTION

date
12/10/25

number item date

key plan



sheet title
FIRST FLOOR DEMOLITION
PLAN

sheet number

M1.2

drawn by Author
checked by Checker

GENERAL NOTES

- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.
- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-9585.

This architectural floor plan illustrates a building section with the following key features and labels:

- Rooms:** A large rectangular room on the left is labeled with a circled 'T' and a small '2' below it. A smaller room on the right is labeled with a circled '1' and the text FC-2-8 below it.
- Equipment:** On the far right, there is a large vertical stack of rectangular components, possibly a server rack or a stack of panels, with a circled 'C' to its right.
- Walls:** The plan shows multiple vertical and horizontal wall lines defining the room boundaries.
- Doors:** A small rectangular opening on the bottom left is marked with a circled 'D'.
- Windows:** A small rectangular opening on the top right is marked with a circled 'W'.
- Other:** A small horizontal rectangle is located at the bottom center of the plan.

**SECOND INTERMEDIATE FLOOR - ELEC.
ROOM #1 DEMOLITION**

**SECOND INTERMEDIATE FLOOR - ELEC.
ROOM #2 DEMOLITION**

wner
**SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES**

project name
**SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD**

JOB NO. D50-6103-LC

A circular stamp with a decorative border. The outer ring contains the text "SOUTH CAROLINA" at the top and "NOTARY PUBLIC" at the bottom. The inner circle contains "GMK, INC." on the top line and "No. C00287" on the bottom line.

A circular registration stamp for Brian J. McDonald, Professional Engineer, No. 33368, South Carolina. The outer ring contains the text "SOUTH CAROLINA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The inner circle contains the name "Brian J. McDonald" in a stylized script, with "No. 33368" printed below it.

issued for
CONSTRUCTION

date
12/10/25

<i>number</i>	<i>item</i>	<i>date</i>
---------------	-------------	-------------

key plan

A black and white line drawing of a complex, multi-level polygonal shape, possibly a map or a technical diagram. The shape is composed of many straight line segments, creating a stepped, staircase-like appearance with several levels and indentations. The lines are thin and black, set against a white background.

sheet title

SECOND FLOOR DEMOLITION PLAN

sheet number

M1.3

SECOND INTERMEDIATE FLOOR - ELEC.
ROOM #1 DEMOLITION
3/32" = 1'-0"

ELECTRICAL ROOM #1 ABOVE

ELECTRICAL ROOM #2 ABOVE

SENATE CHAMBERS 139

ANTEROOM 145

MEETING ROOM 141

ELEVATOR LOBBY B70

LOBBY 204

HOUSE CHAMBERS 226

OFFICE 205

OFFICE 206

OFFICE 207

OFFICE 208

FC-2-1

FC-2-2

FC-2-3

FC-2-4

FC-2-5

FC-2-6

FC-2-7

AH-5

AH-6

AH-7

AH-10

DEMOLITION NOTES:

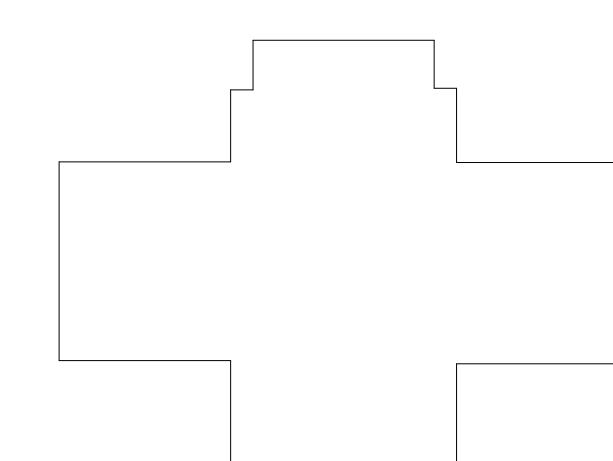
1 MECHANICAL CONTRACTOR TO REMOVE EXISTING CONTROL VALVES FOR FAN COIL UNIT/AIR HANDLER AND PREPARE PIPE FOR NEW VALVES. COORDINATE REMOVE OF ALL CONTROLS FOR FAN COIL UNIT WITH JCI.

2 JCI TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING.

DEMOLITION NOTES:

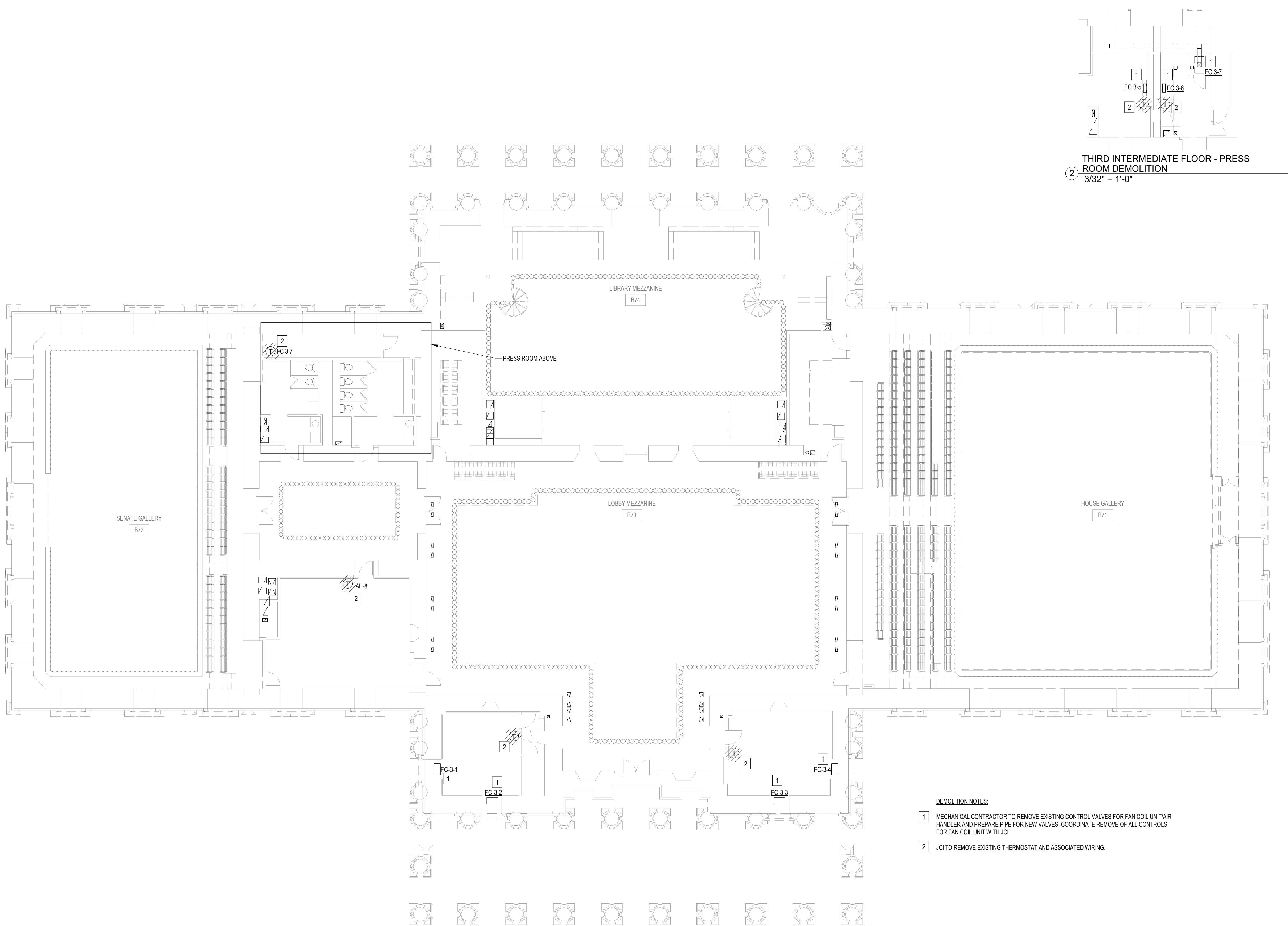
1 MECHANICAL CONTRACTOR TO REMOVE EXISTING CONTROL VALVES FOR FAN COIL UNIT/AIR HANDLER AND PREPARE PIPE FOR NEW VALVES. COORDINATE REMOVE OF ALL CONTROLS FOR FAN COIL UNIT WITH JCI.

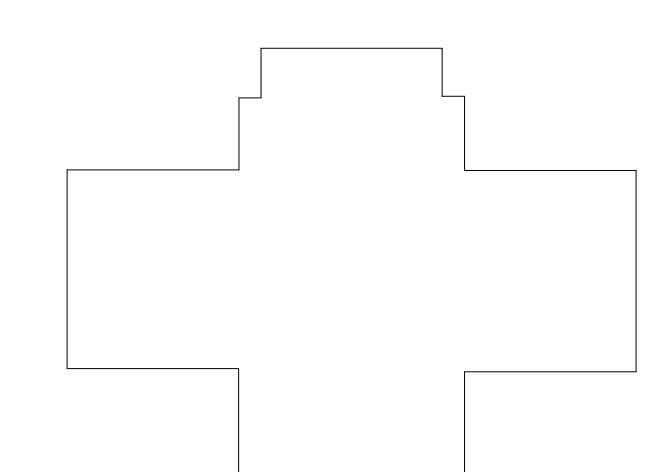
1 SECOND FLOOR DEMOLITION PLAN
3/32" = 1'-0"



GENERAL NOTES:

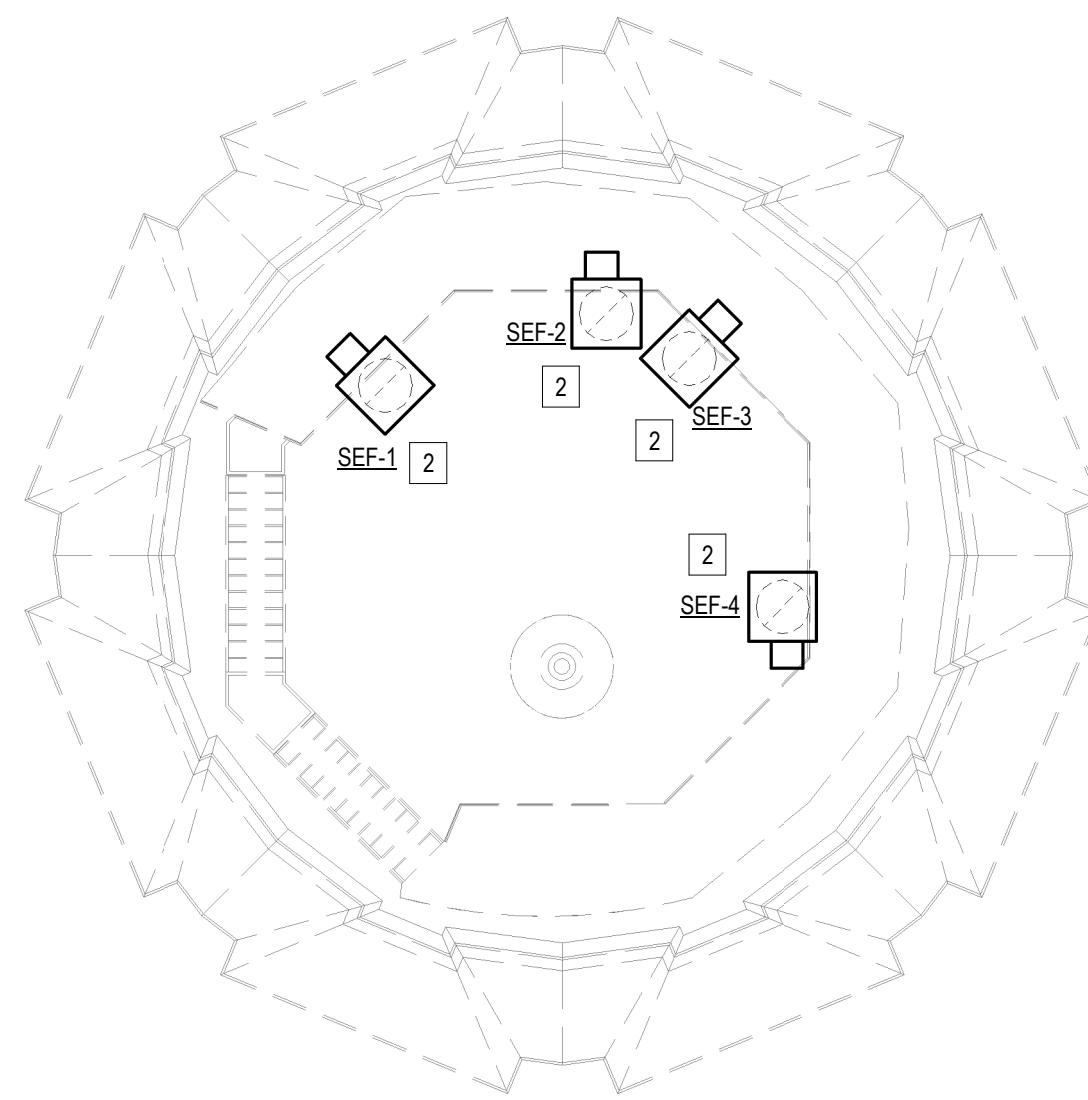
- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AHU-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE DOWNTIME ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.
- DO TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-9585.



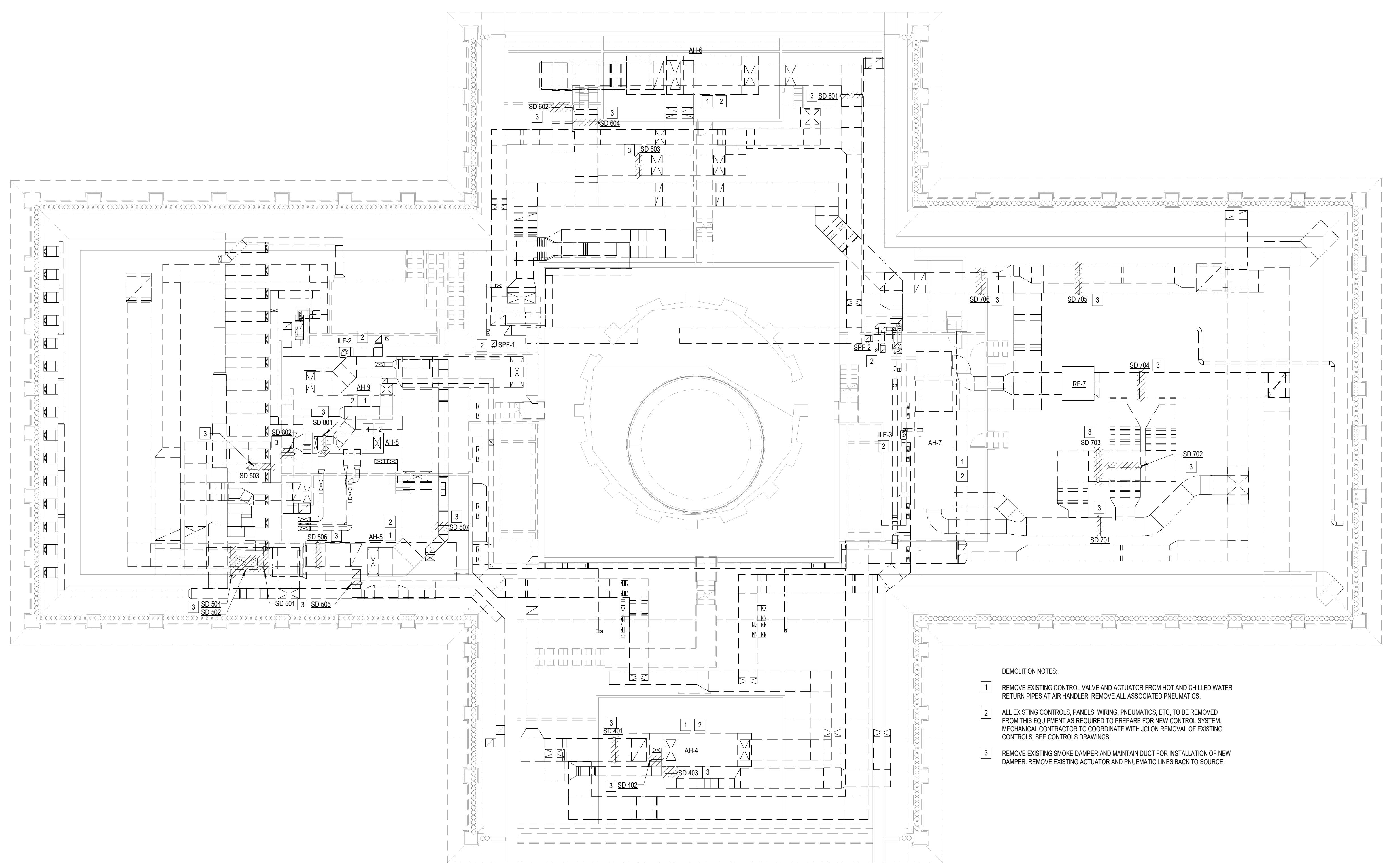


GENERAL NOTES:

- CONTRACTOR TO COORDINATE REMOVAL AND RE-LOCATION OF VAV BOXES AND DAMPERS. DOWNTIME ASSOCIATED WITH AHU REBUILD CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.
- JO TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-8985.



② 1ST LEVEL CUPOLA DEMOLITION PLAN
3/32" = 1'-0"

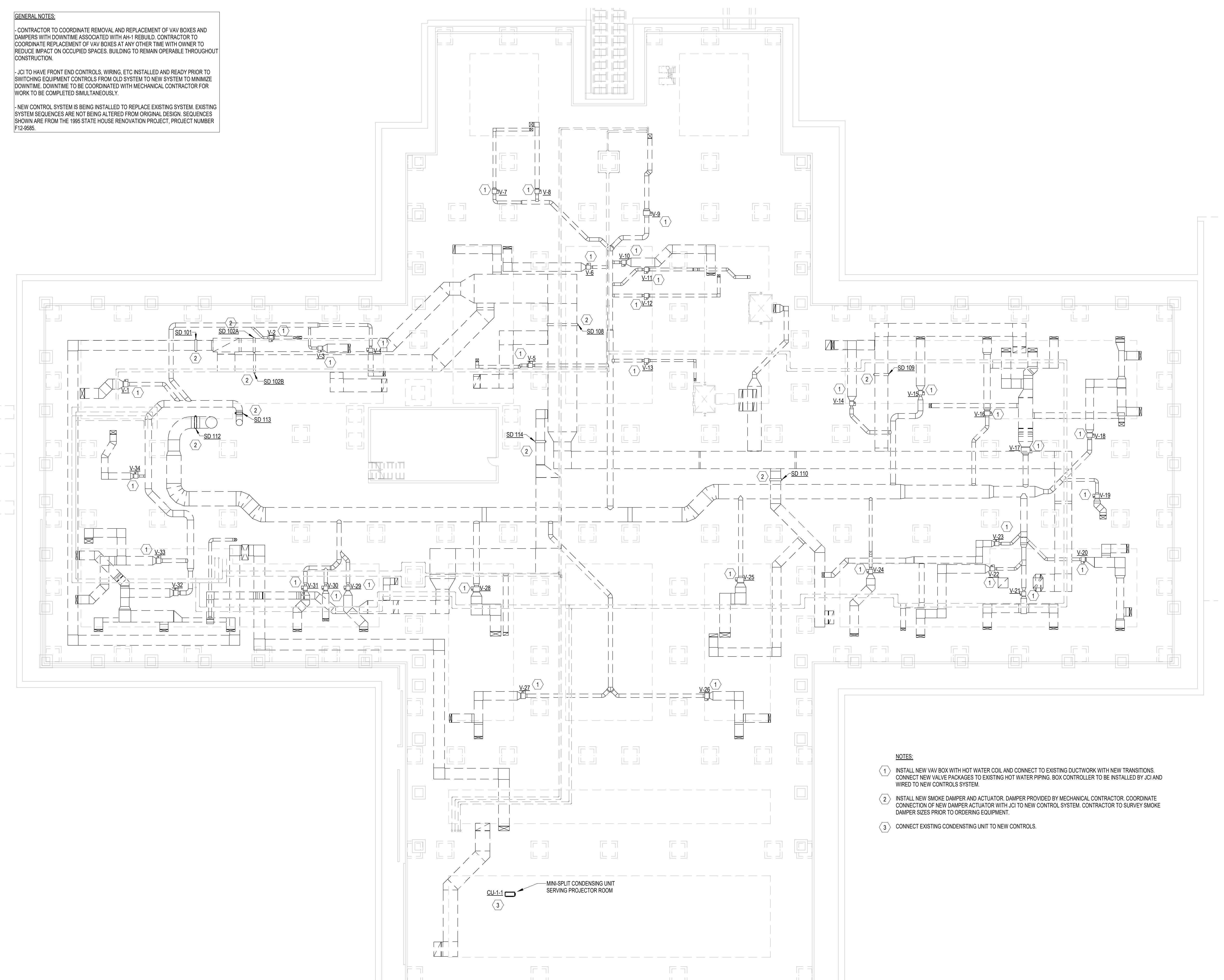


DEMOLITION NOTES:

- 1 REMOVE EXISTING CONTROL VALVE AND ACTUATOR FROM HOT AND CHILLED WATER RETURN PIPES AT AIR HANDLER. REMOVE ALL ASSOCIATED PNEUMATICS.
- 2 REMOVE EXISTING CONTROLS, PANELS, WINCH, PNEUMATICS, ETC. TO BE REMOVED FROM THIS EQUIPMENT AS REQUIRED TO PREPARE FOR NEW CONTROL SYSTEM. MECHANICAL CONTRACTOR TO COORDINATE WITH JO ON REMOVAL OF EXISTING CONTROLS. SEE CONTROLS DRAWINGS.
- 3 REMOVE EXISTING SMOKE DAMPER AND MAINTAIN DUCT FOR INSTALLATION OF NEW DAMPER. REMOVE EXISTING ACTUATOR AND PNEUMATIC LINES BACK TO SOURCE.

① ATTIC FLOOR DEMOLITION PLAN
3/32" = 1'-0"

GENERAL NOTES:
CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND
DAMPERS WITH DOWNTIME ASSOCIATED WITH AHU REBUILD. CONTRACTOR TO
COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO
REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT
CONSTRUCTION.
- JC TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO
SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE
DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR
WORK TO BE COMPLETED SIMULTANEOUSLY.
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING
SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES
SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER
F12-355.



① SUB BASEMENT RENOVATION PLAN
3/32" = 1'-0"

owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature

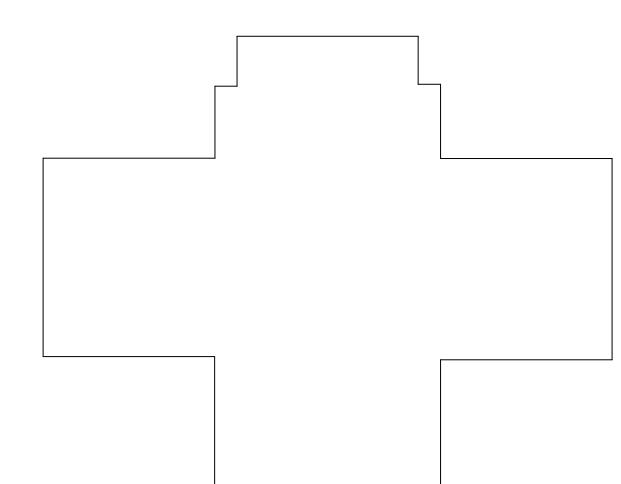


issued for
CONSTRUCTION

date
12/10/25

number | **item** | **date**

key plan

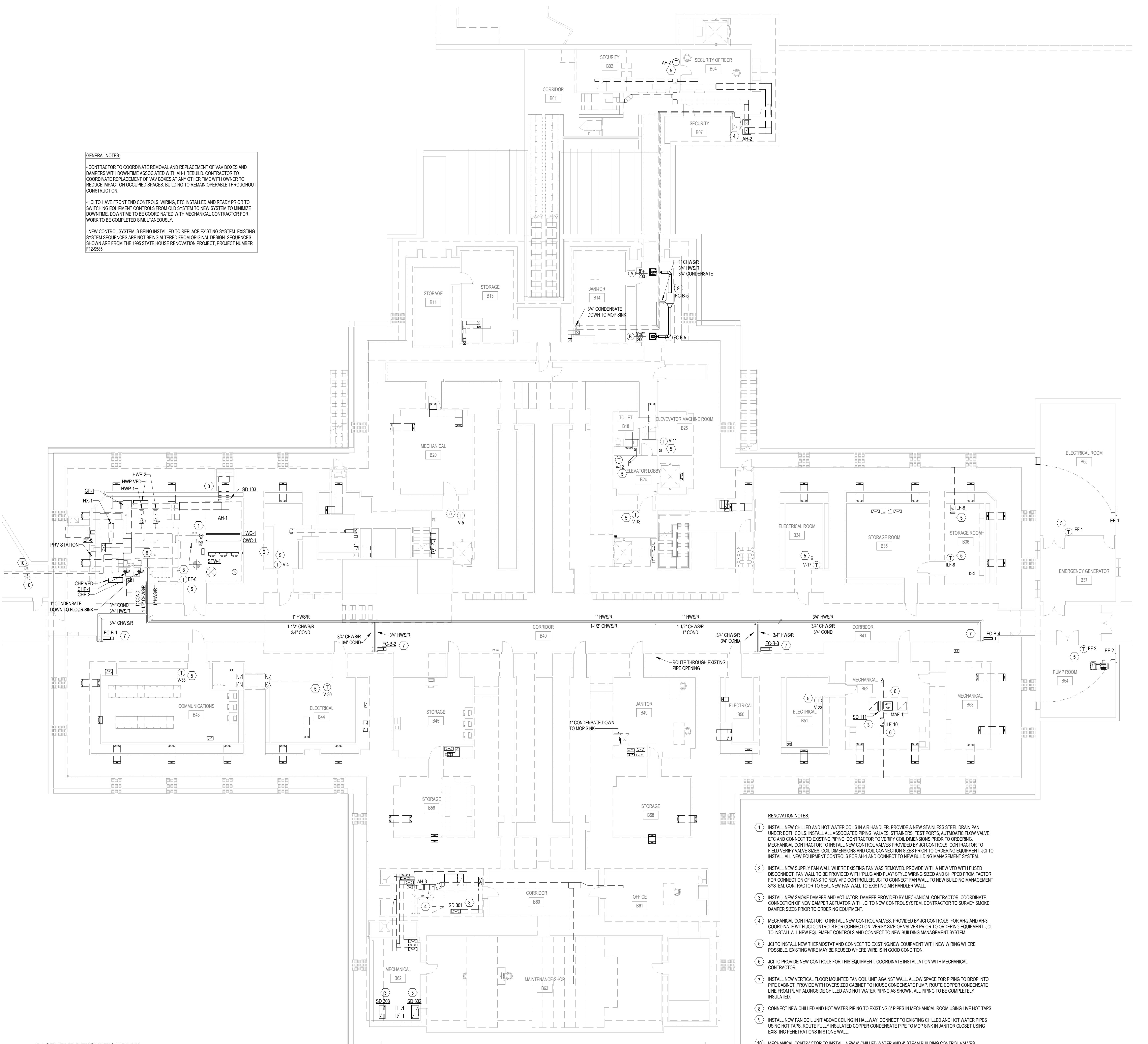
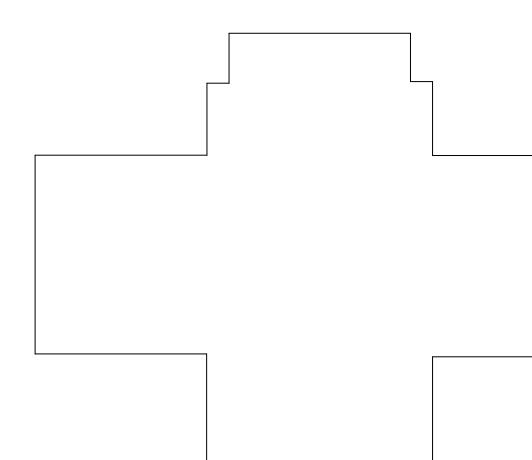


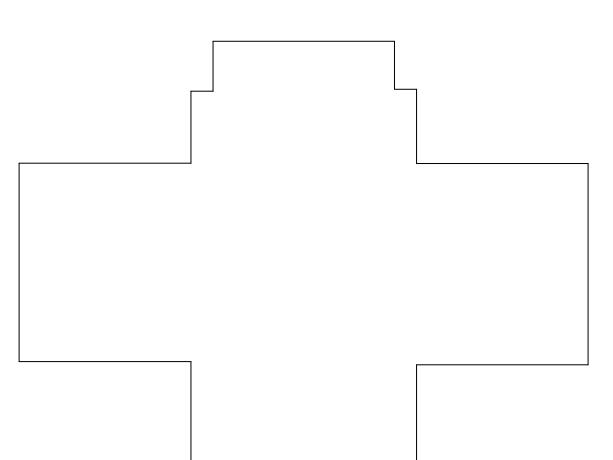
sheet title
SUB BASEMENT
RENOVATION PLAN

sheet number

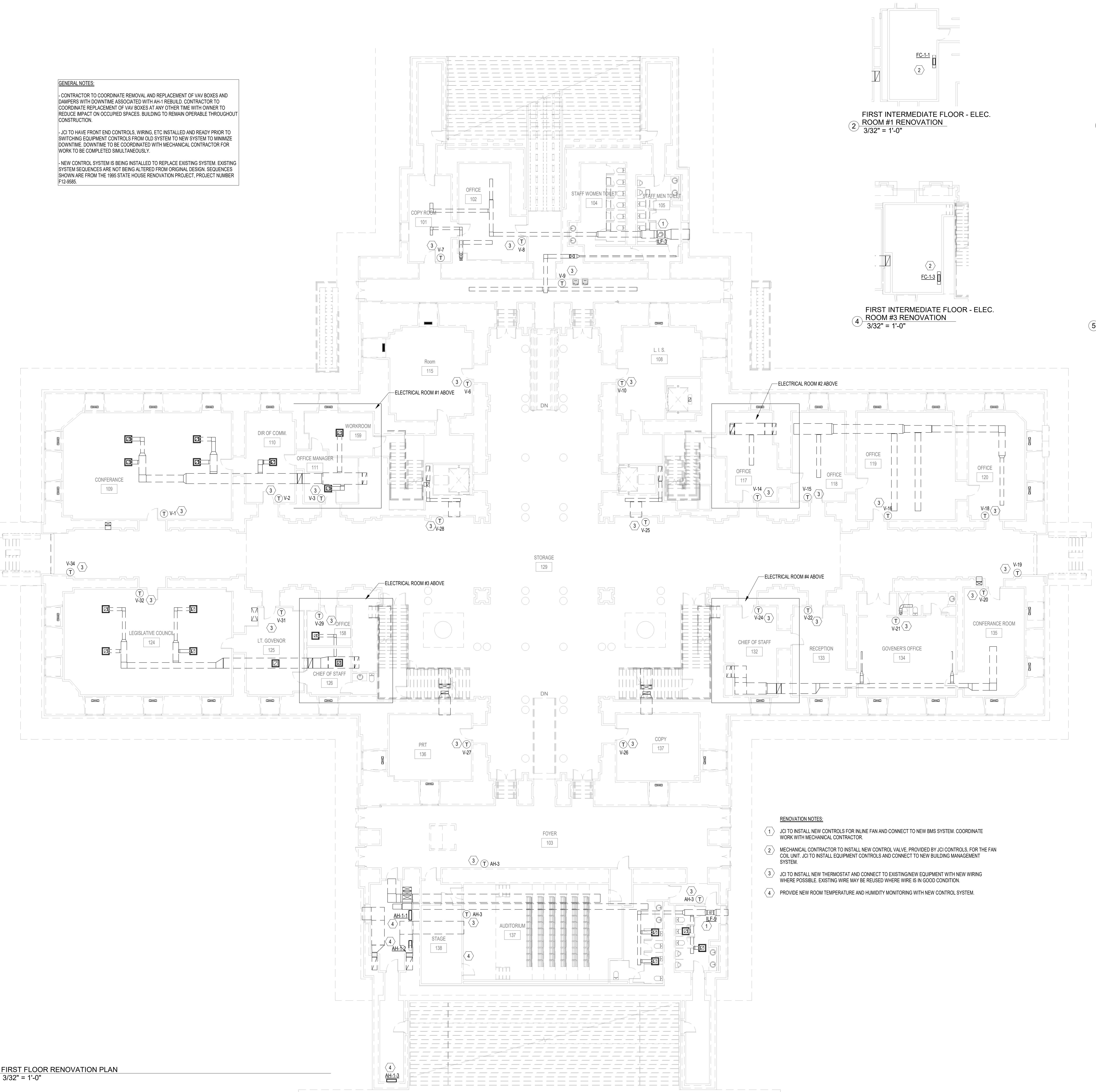
M2.0

drawn by Author
checked by Checker



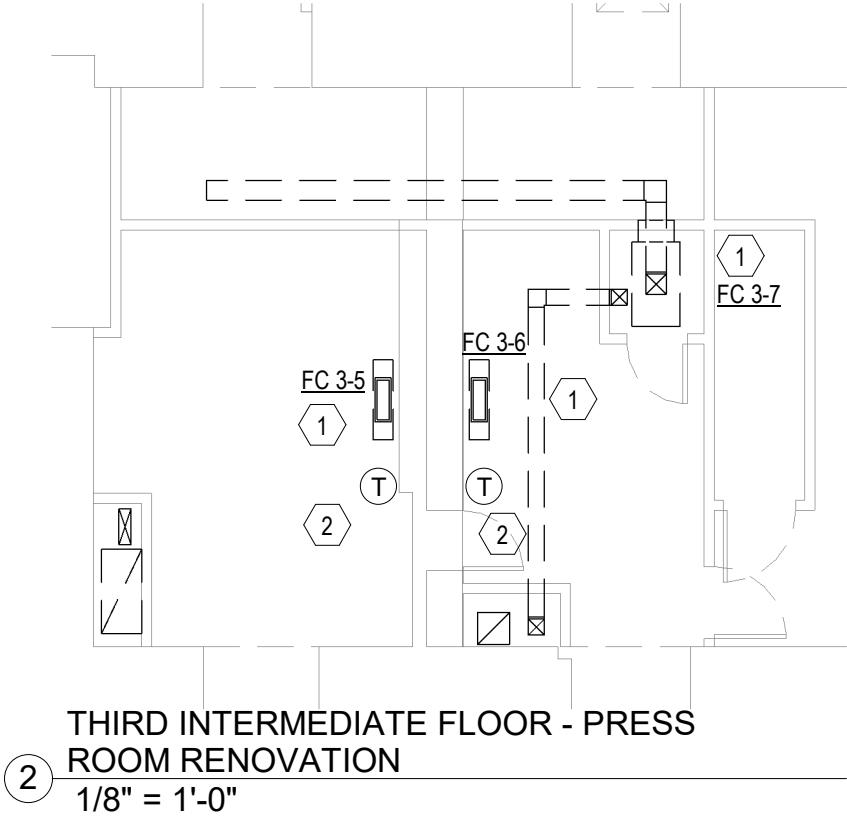


GENERAL NOTES:
 1. CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND
DAMPER TO DOWNTIME AND REBUILD. CONTRACTOR TO
COORDINATE REMOVAL OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO
REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT
CONSTRUCTION.
 2. JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO
SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE
DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR
WORK TO BE COMPLETED SIMULTANEOUSLY.
 3. NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING
SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES
SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER
H12-988.



GENERAL NOTES:

- CONTRACTOR TO COORDINATE REMOVAL AND RE-LOCATION OF VAV BOXES AND DAMPERS AND WIRING ASSOCIATED WITH THE REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.
- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN SEQUENCES SHOWN ARE FROM THE 1996 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER P129565.



THIRD INTERMEDIATE FLOOR - PRESS
ROOM RENOVATION
1/8" = 1'-0"

owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature

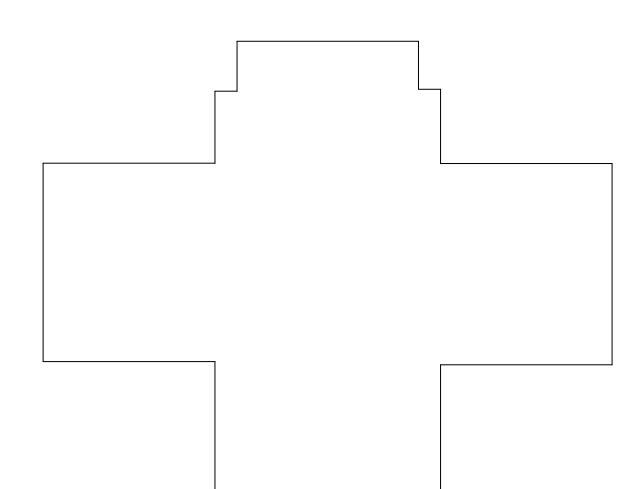


issued for
CONSTRUCTION

date
12/10/25

number | **item** | **date**

key plan

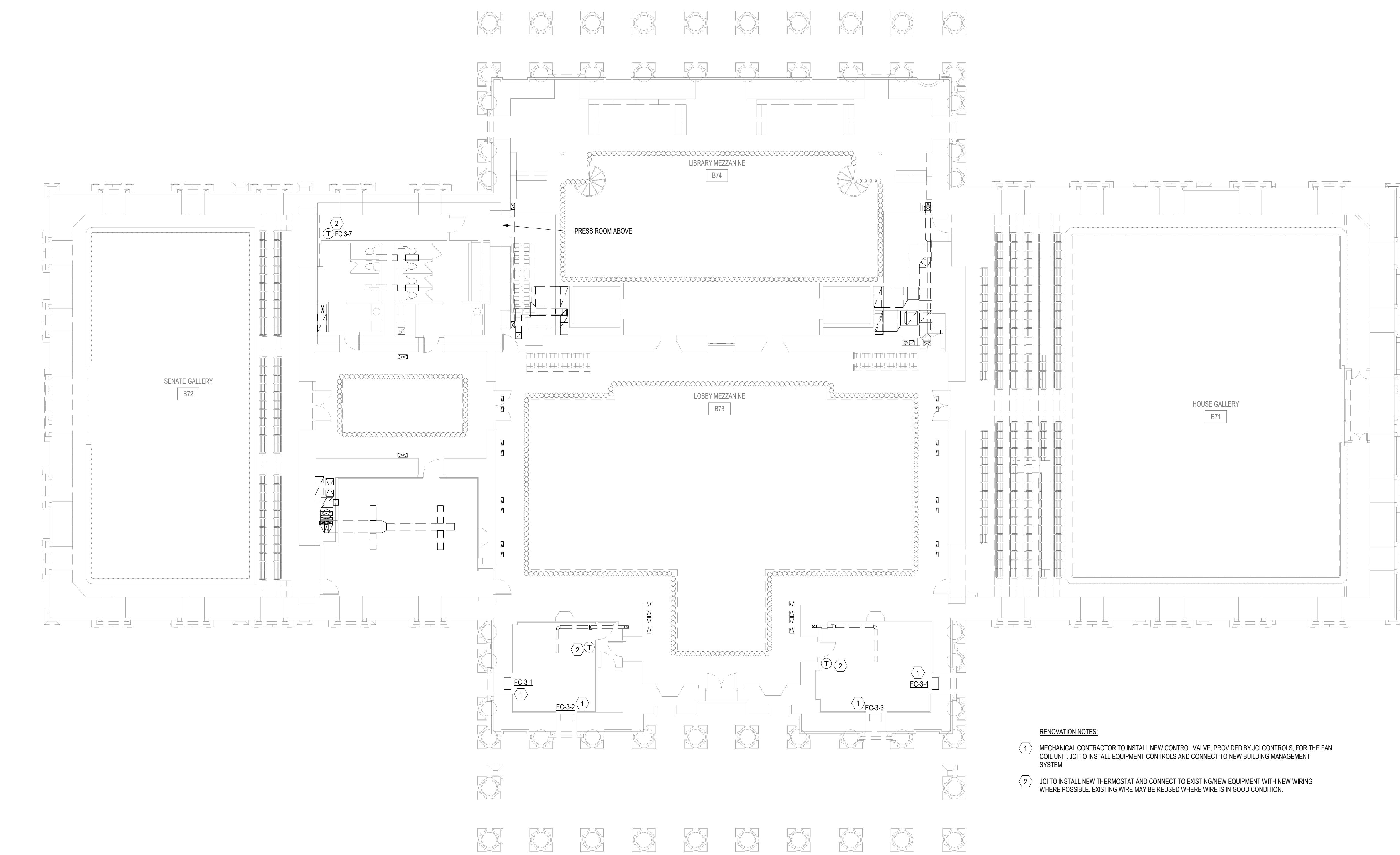


sheet title
THIRD FLOOR RENOVATION
PLAN

sheet number

M2.4

drawn by Author
checked by Checker



① THIRD FLOOR RENOVATION PLAN
3/32" = 1'-0"

RENOVATION NOTES:

- ① MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVE, PROVIDED BY JCI CONTROLS, FOR THE FAN COIL UNIT. JCI TO INSTALL EQUIPMENT CONTROLS AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM.
- ② JCI TO INSTALL NEW THERMOSTAT AND CONNECT TO EXISTING NEW EQUIPMENT WITH NEW WIRING WHERE POSSIBLE. EXISTING WIRE MAY BE REUSED WHERE WIRE IS IN GOOD CONDITION.

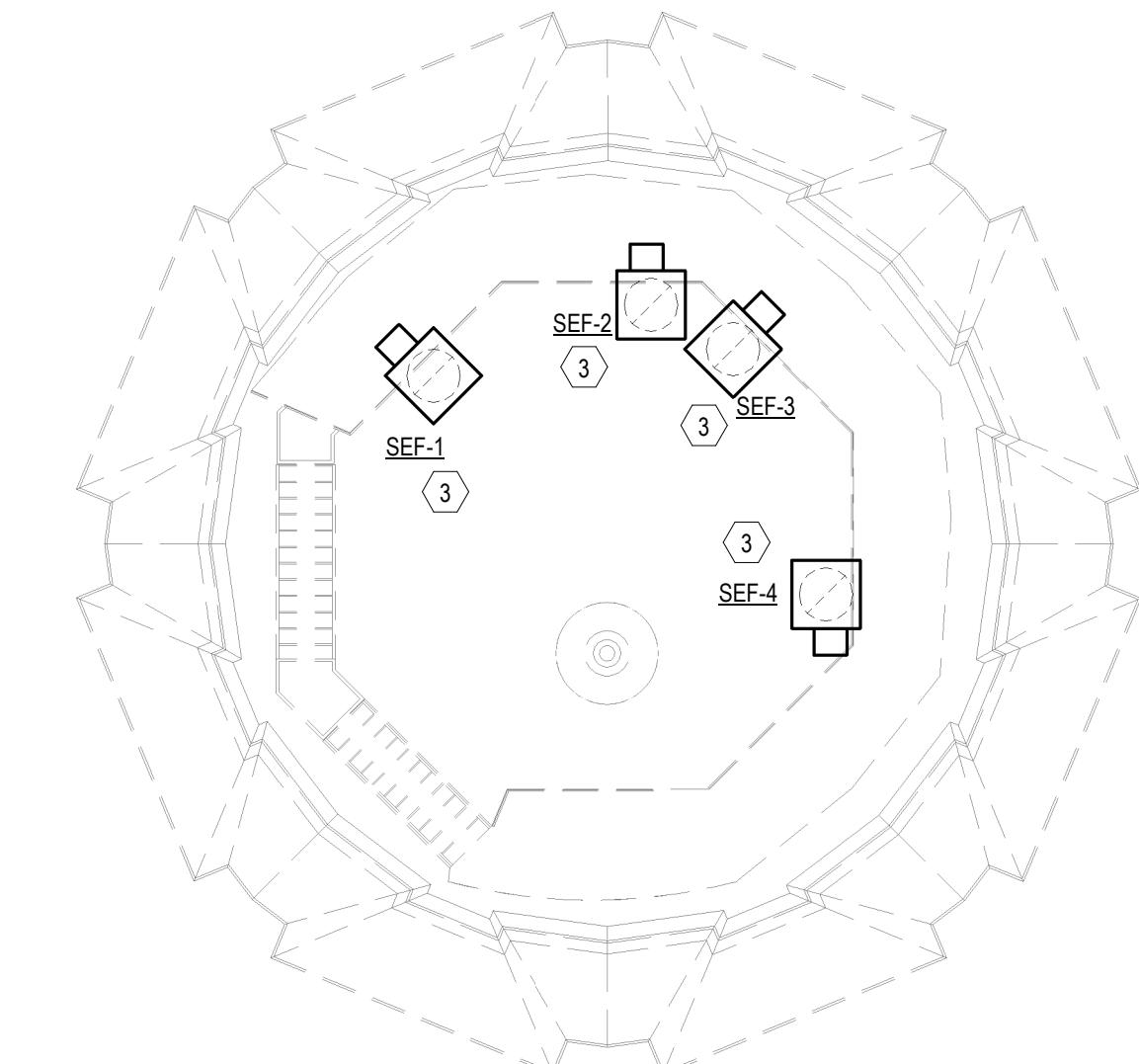


GENERAL NOTES

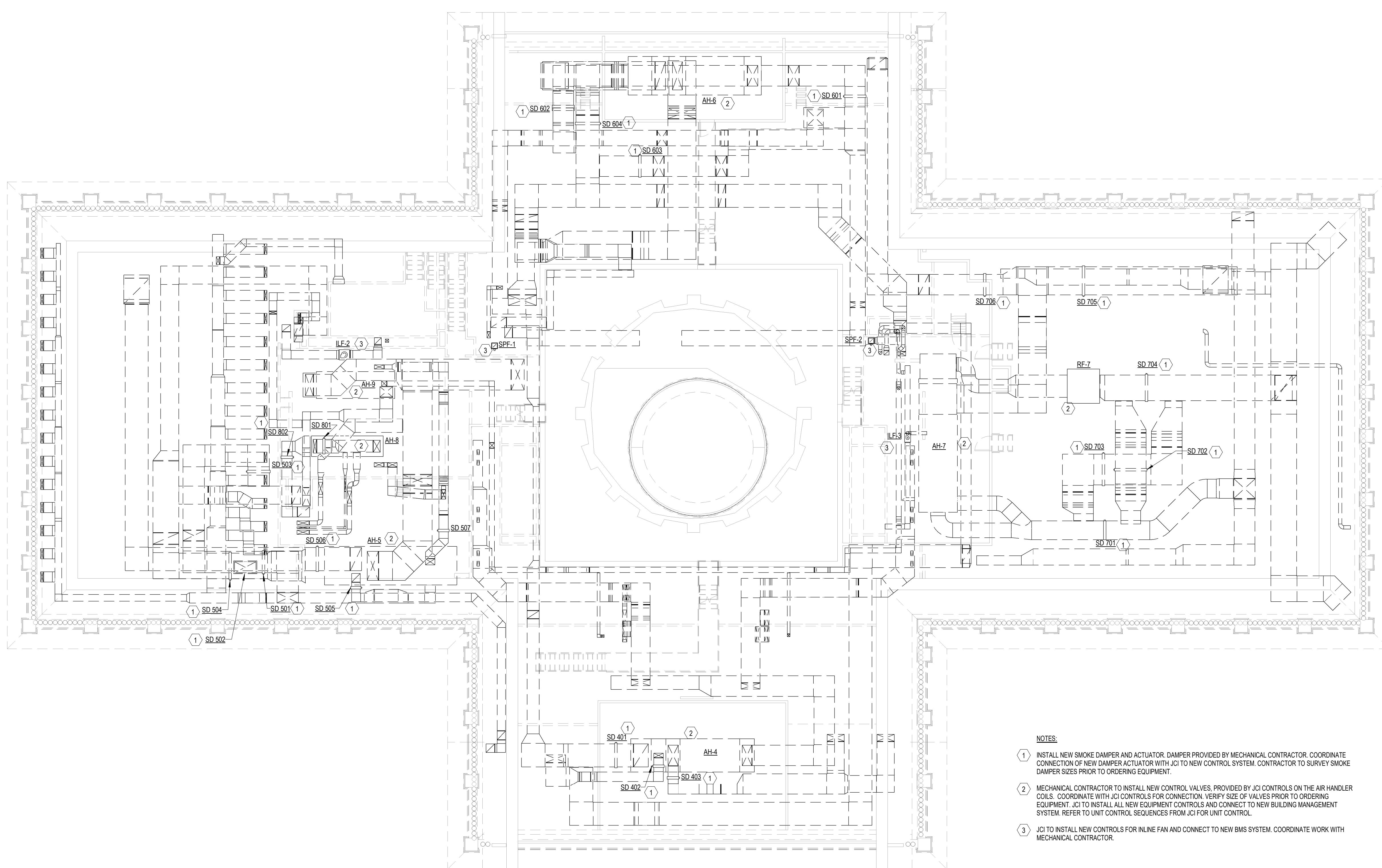
- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS VAV DOWN DOWNTIME ASSOCIATED WITH EACH REBUILD. COORDINATE TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

- JO TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1998 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER P12-985.



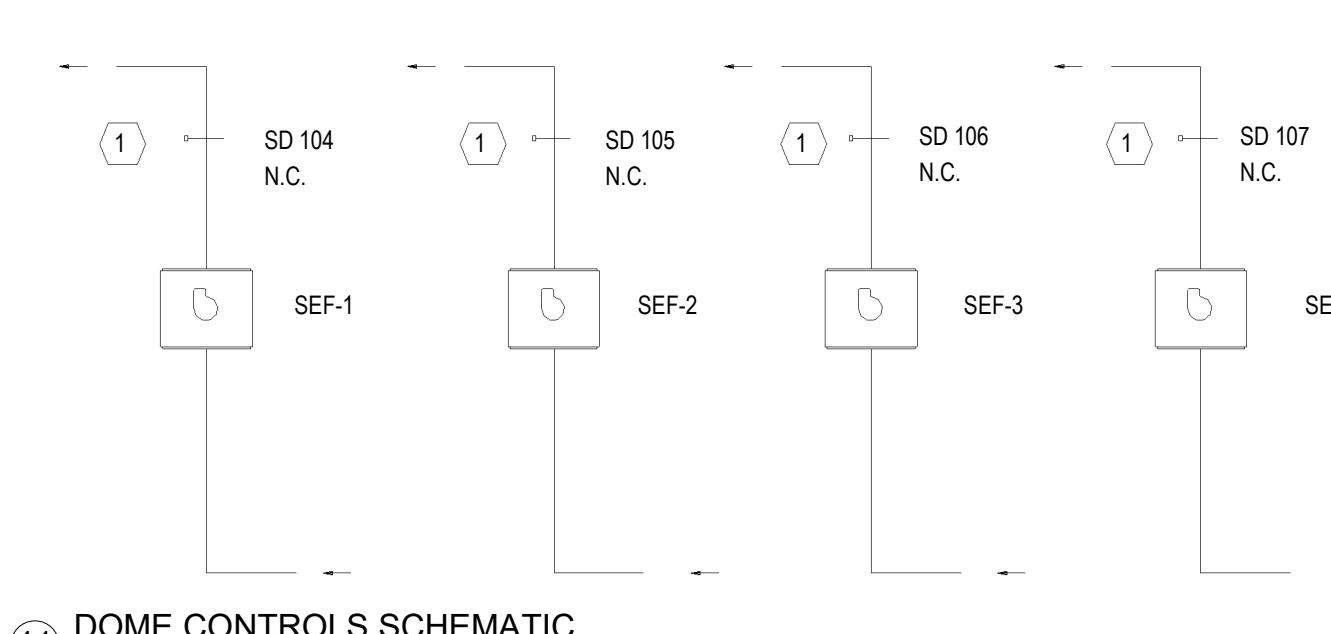
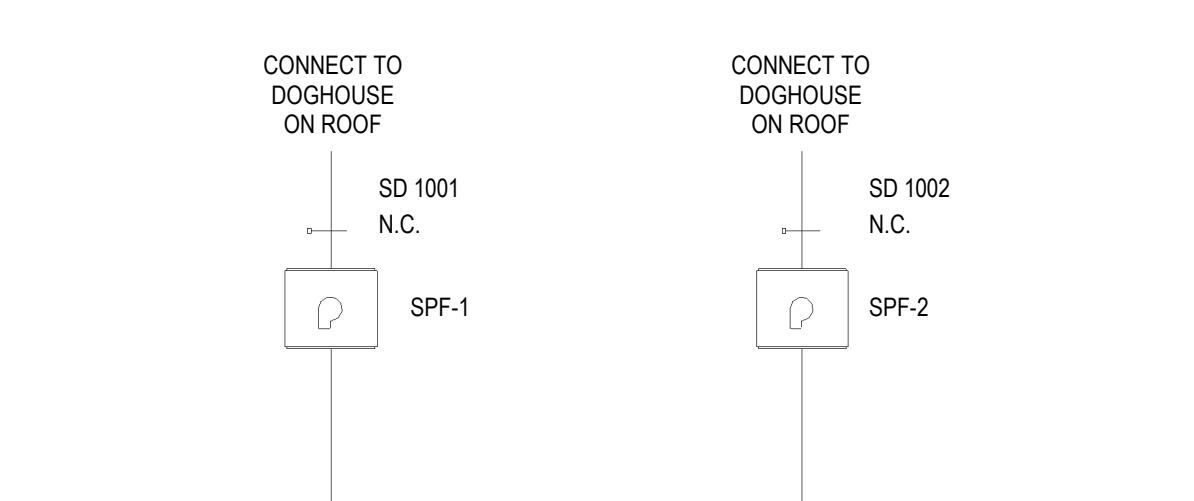
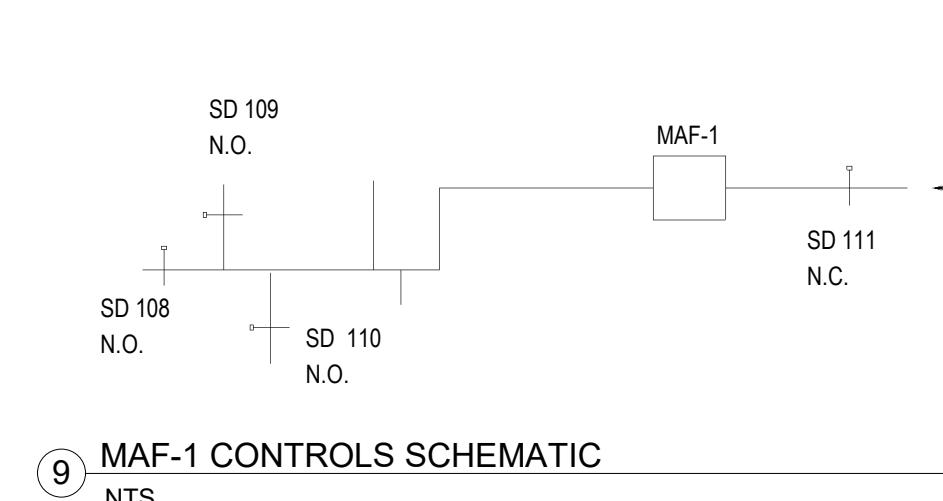
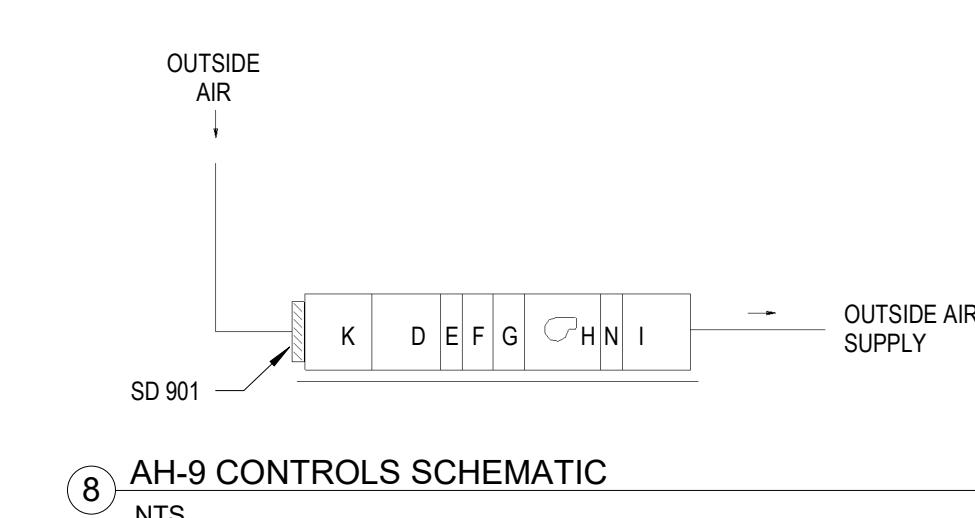
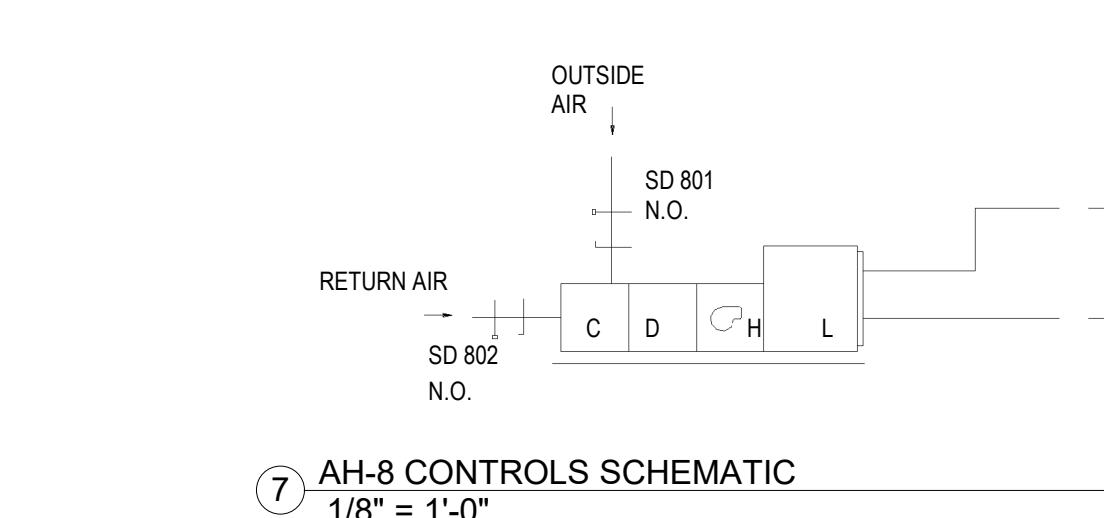
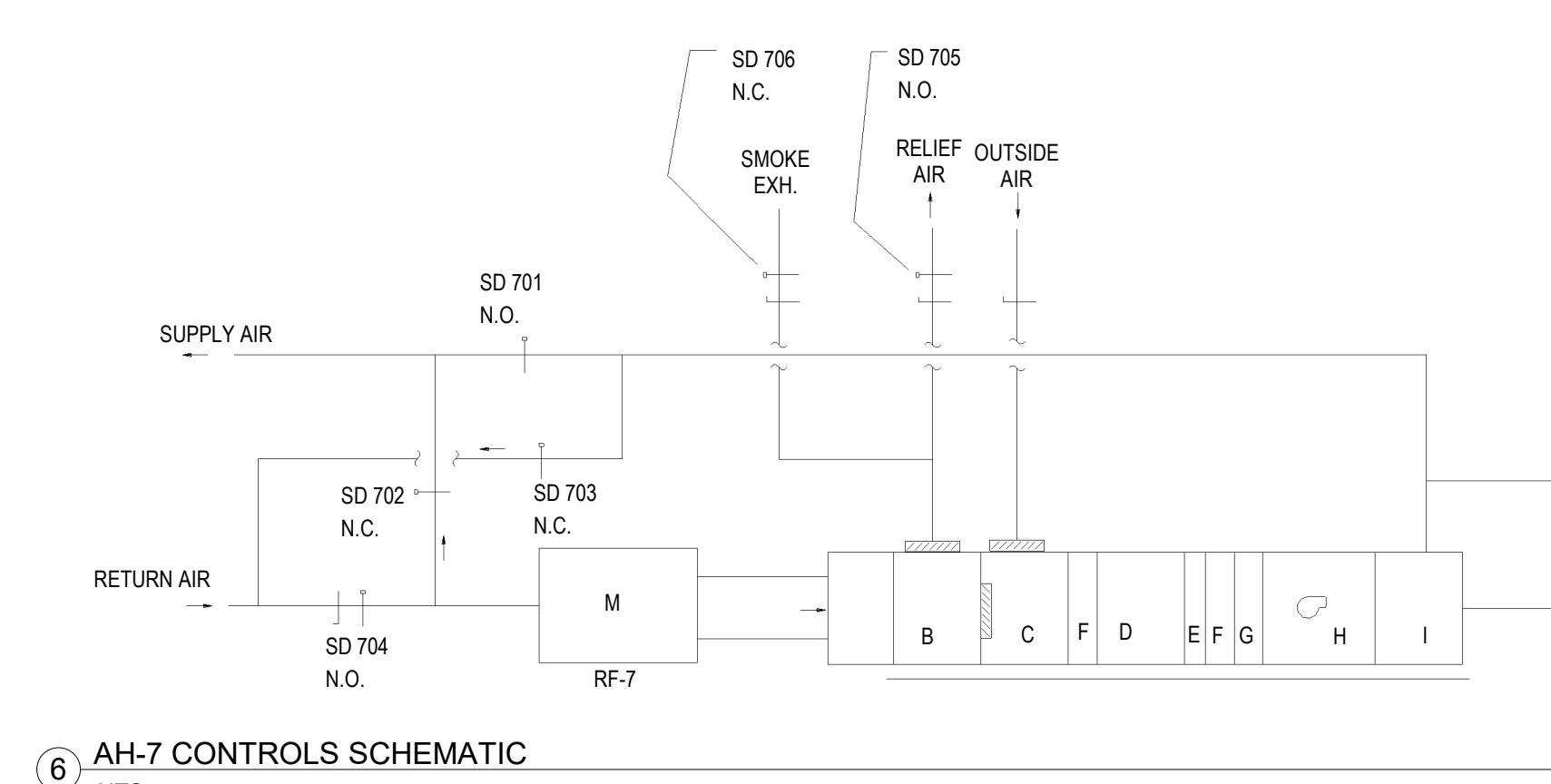
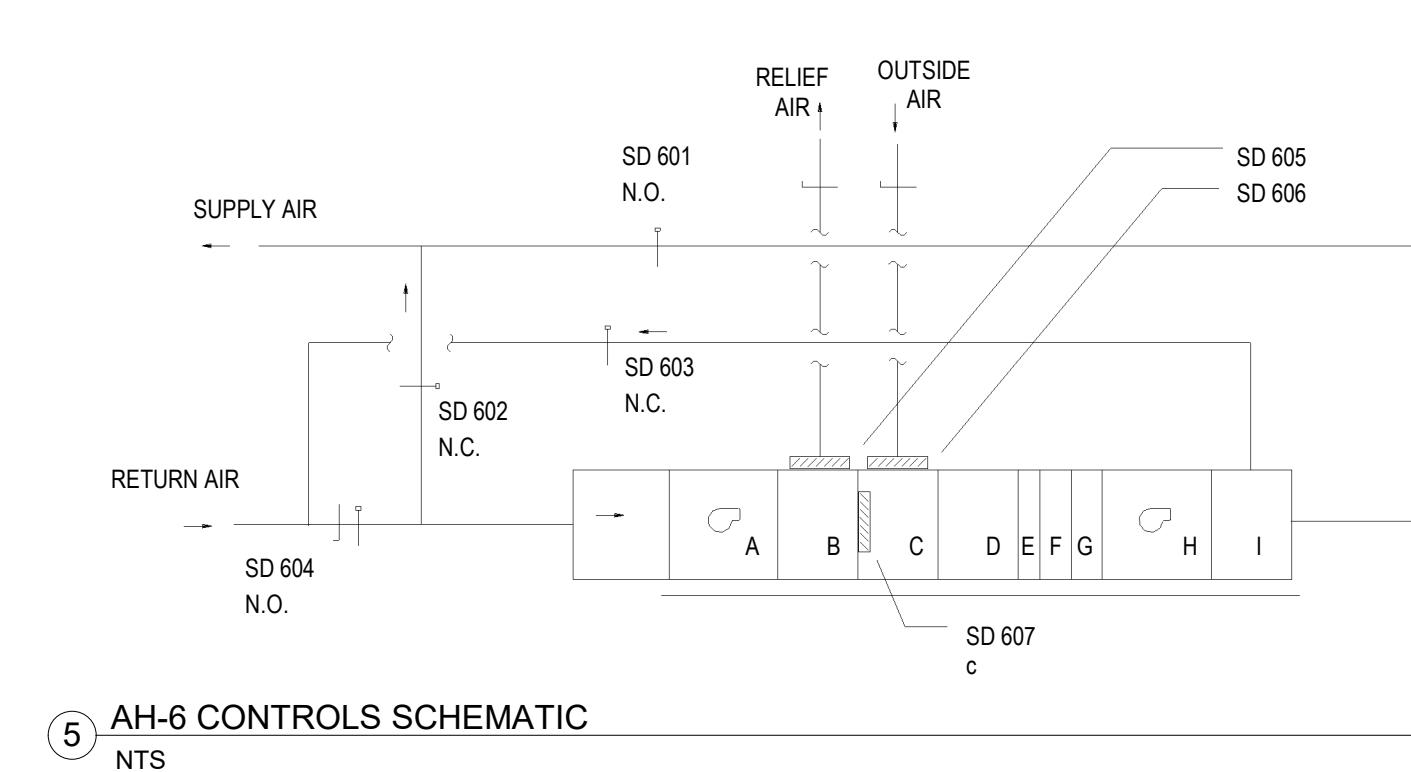
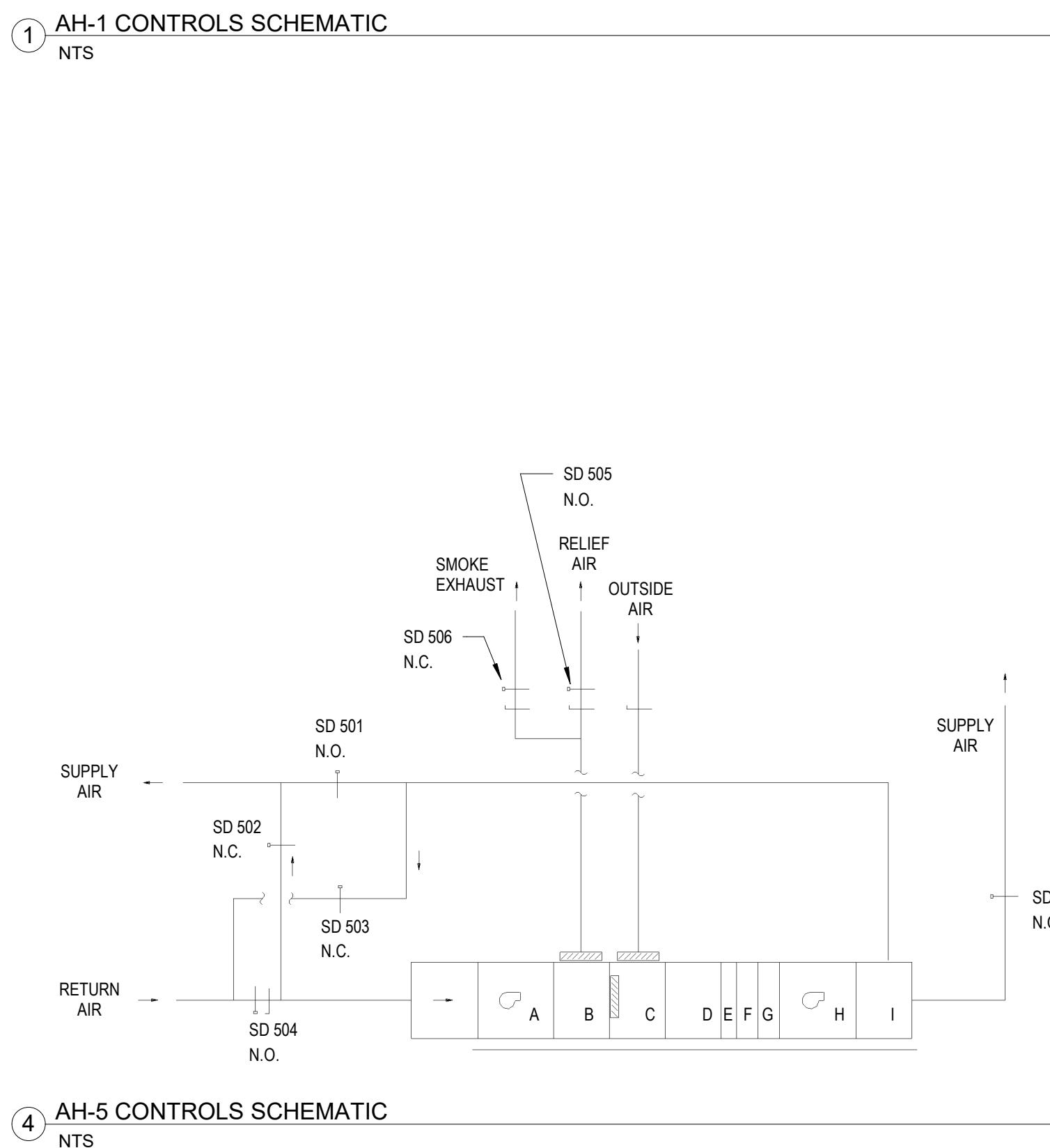
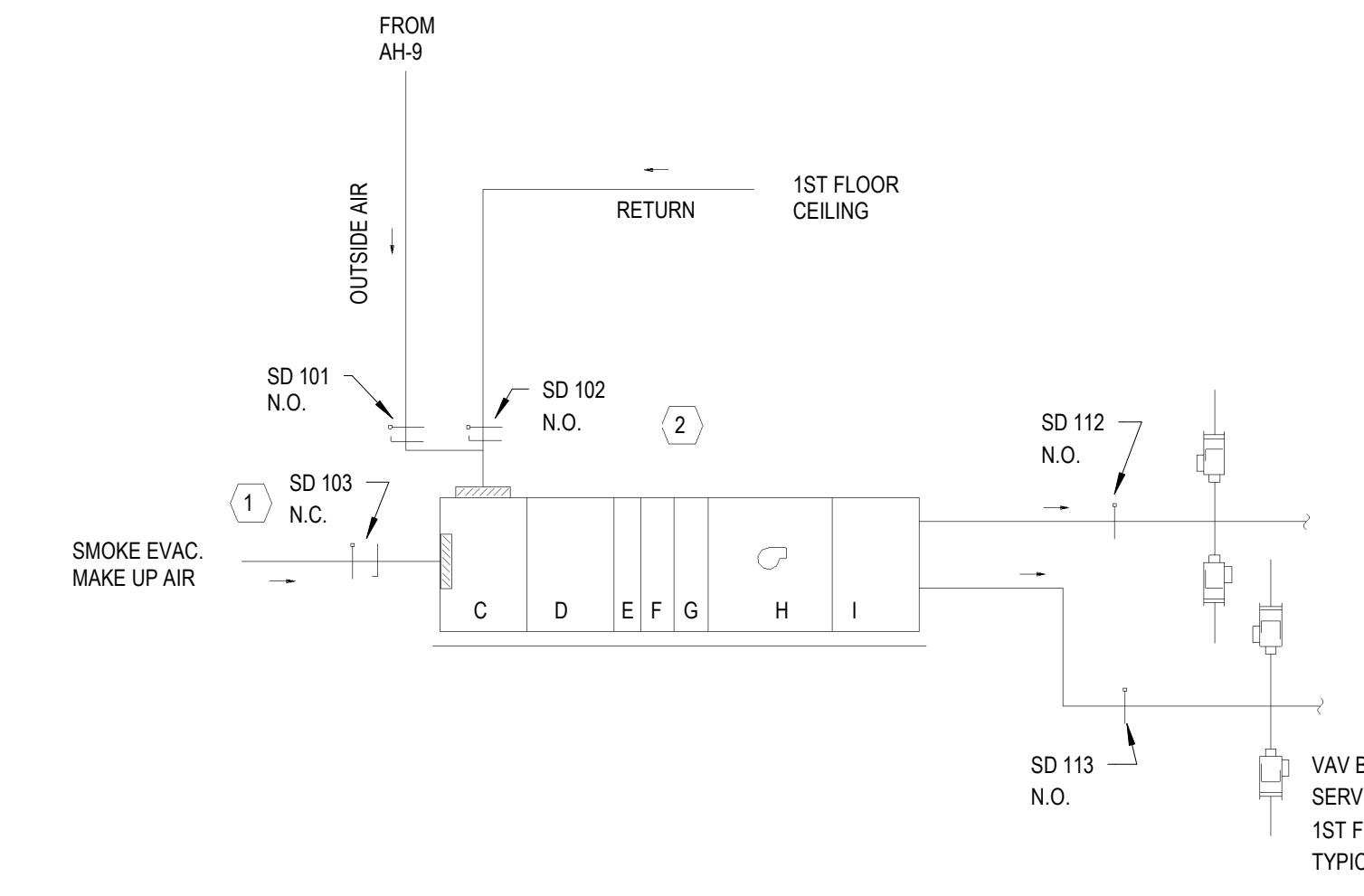
② 1ST LEVEL CUPOLA RENOVATION PLAN
3/32" = 1'-0"



① ATTIC FLOOR RENOVATION PLAN
3/32" = 1'-0"

NOTES:

- 1) INSTALL NEW SMOKE DAMPER AND ACTUATOR. DAMPER PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONNECTION OF NEW DAMPER ACTUATOR WITH JO TO NEW CONTROL SYSTEM. CONTRACTOR TO SURVEY SMOKE DAMPER SIZES PRIOR TO ORDERING EQUIPMENT.
- 2) MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVES, PROVIDED BY JO CONTROLS ON THE AIR HANDLER COILS. COORDINATE WITH JO CONTROLS FOR CORRECT VALVE SIZE OF VALVES PRIOR TO ORDERING EQUIPMENT. JO CONTROLS TO COORDINATE WITH MECHANICAL CONTRACTOR'S WORK TO NEW BUILDING MANAGEMENT SYSTEM. REFER TO UNIT CONTROL SEQUENCES FROM JO CONTROLS FOR UNIT CONTROL.
- 3) JO TO INSTALL NEW CONTROLS FOR INLINE FAN AND CONNECT TO NEW BMS SYSTEM. COORDINATE WORK WITH MECHANICAL CONTRACTOR.



owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature




issued for
CONSTRUCTION

date
12/10/25

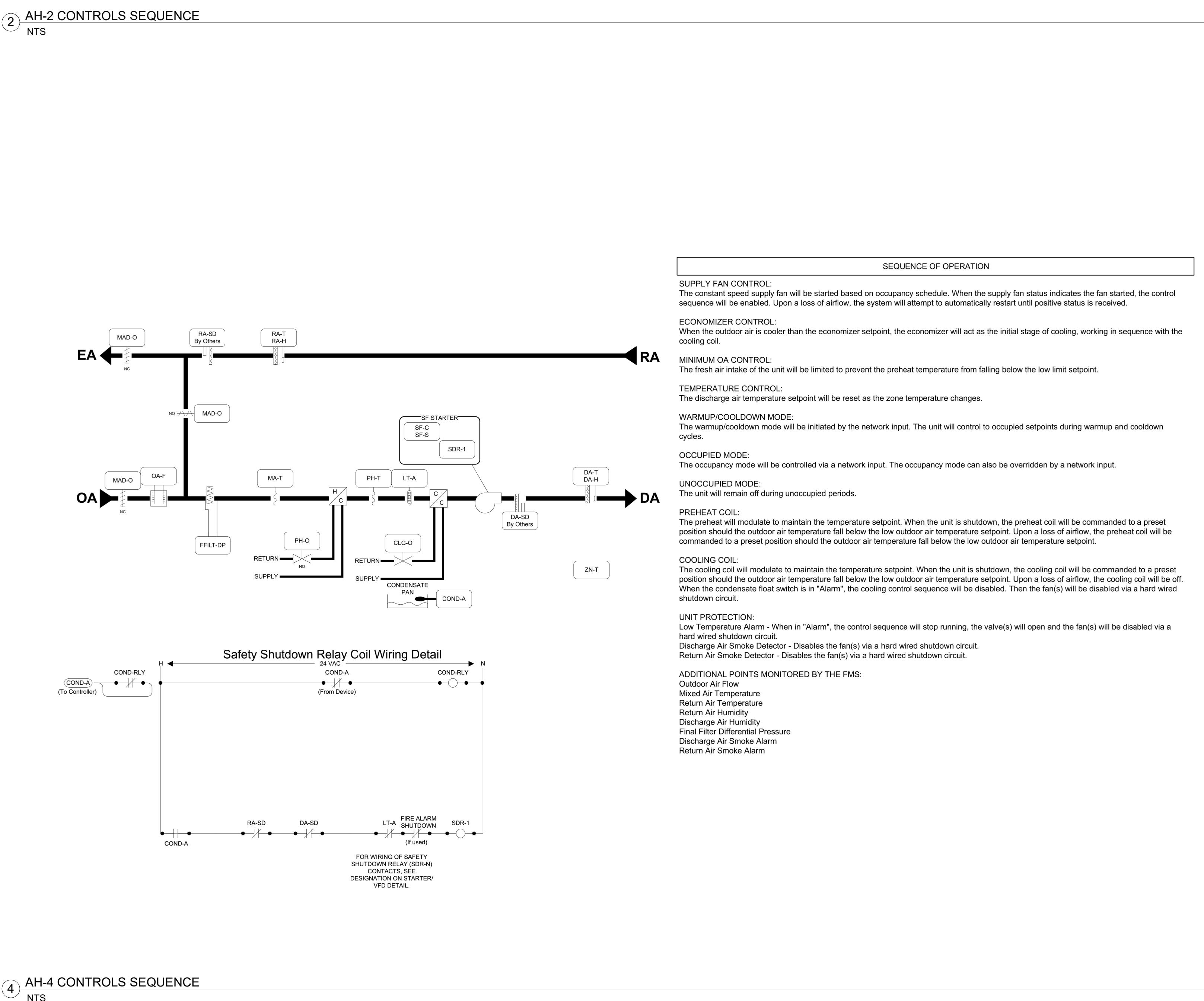
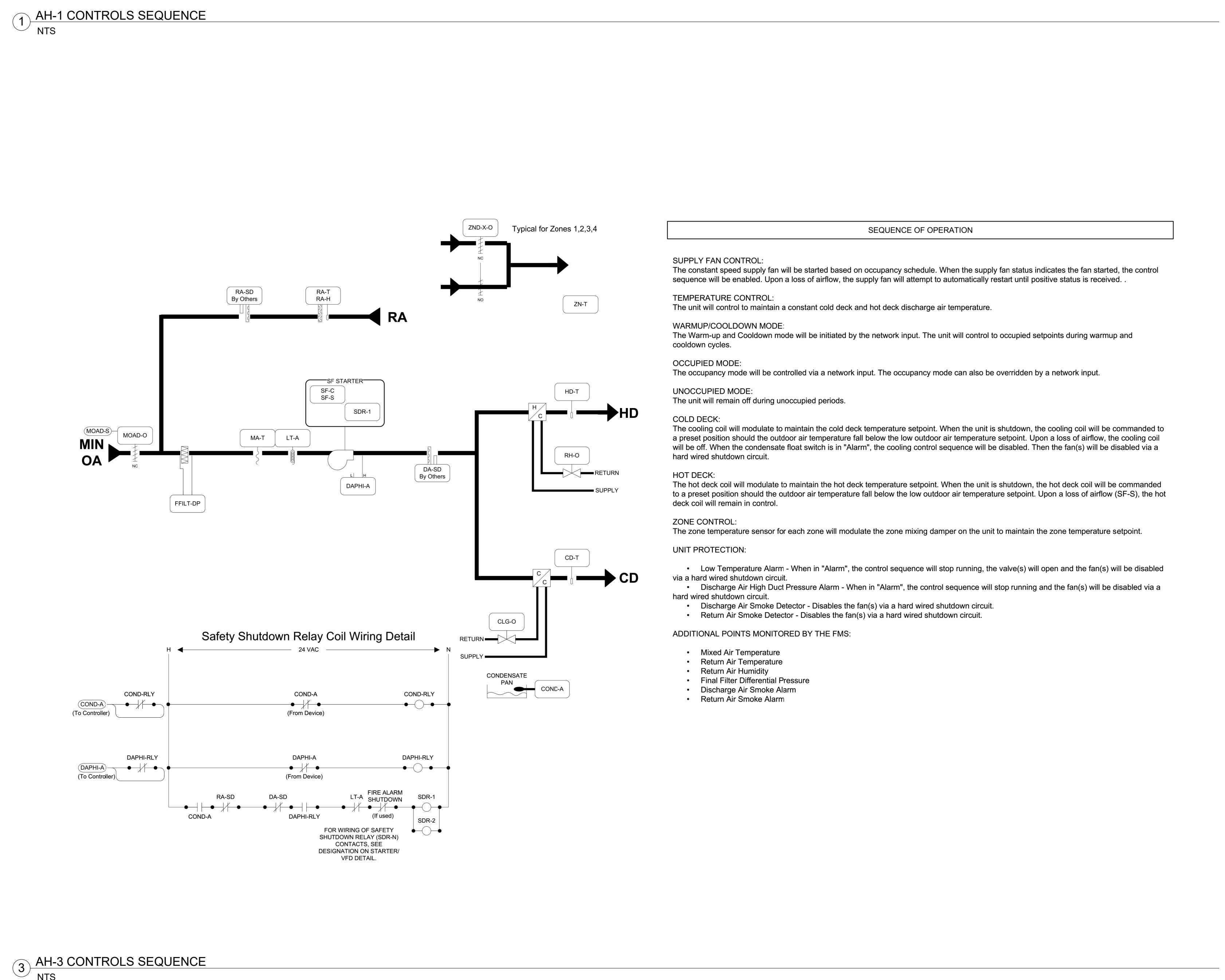
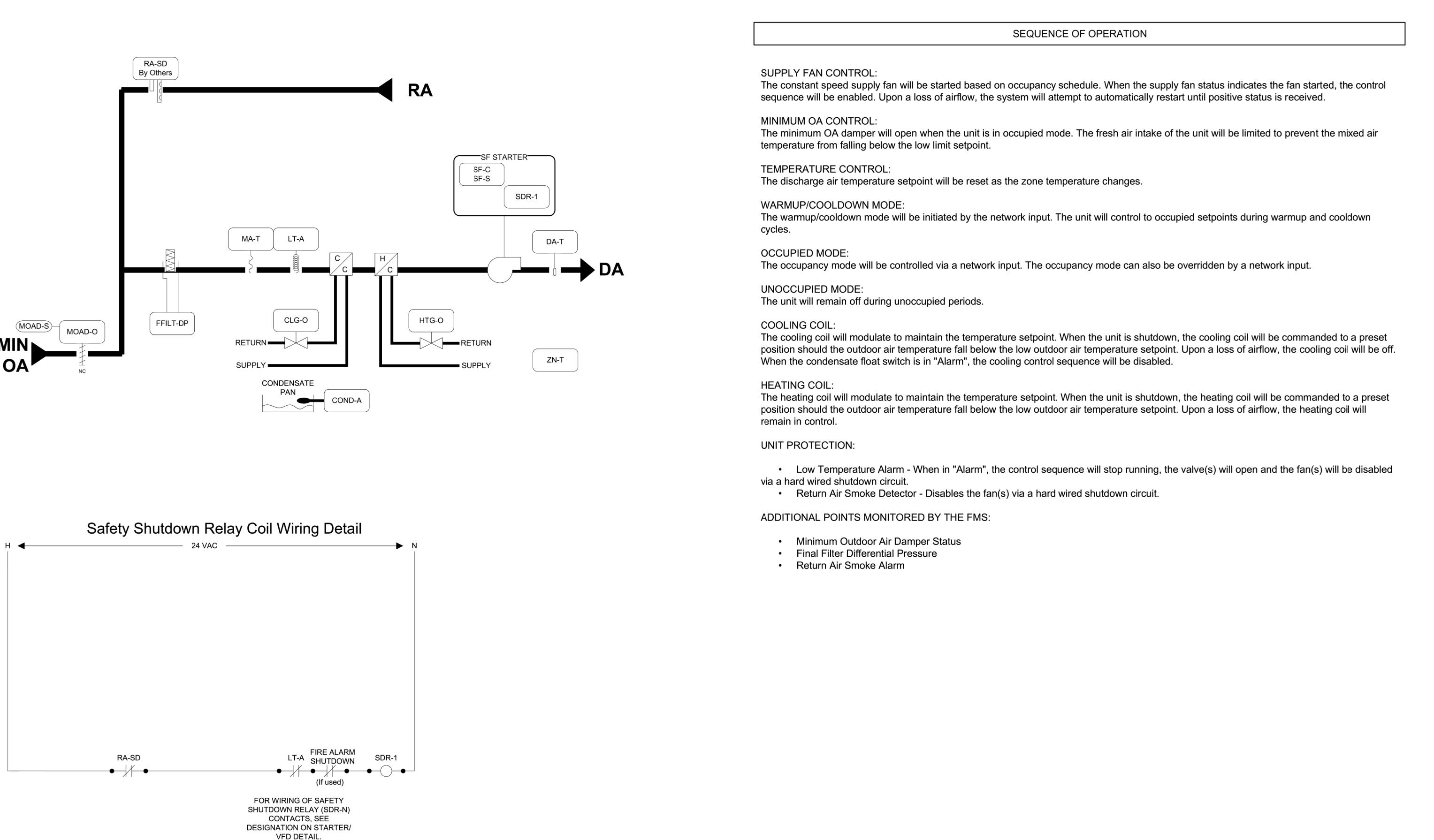
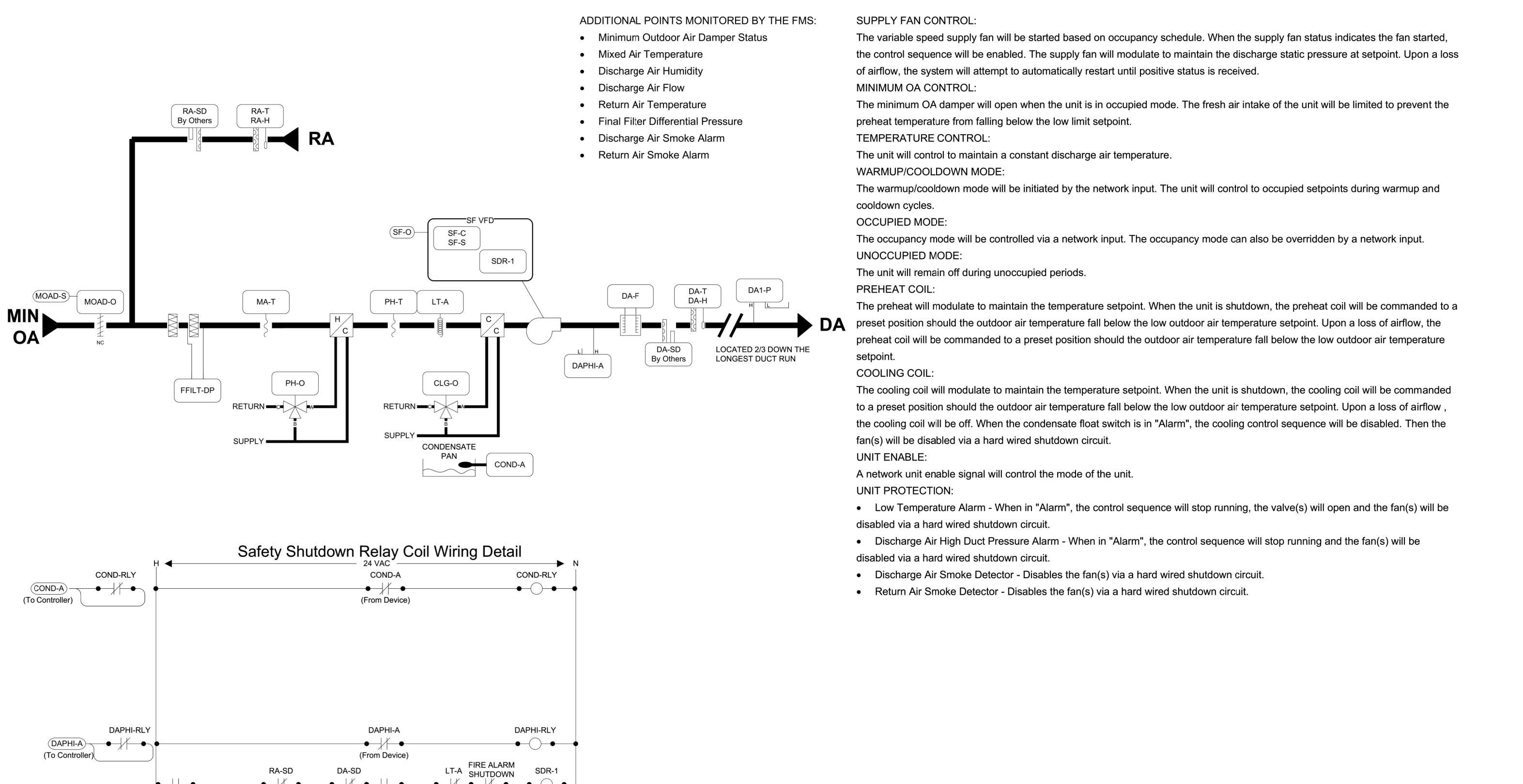
number item date

key plan

sheet title
MECHANICAL CONTROLS
SCHEMATICS

sheet number
M5.0

drawn by BLM
checked by Checker



project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC
seals/signature

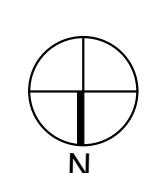


issued for
CONSTRUCTION

date
12/10/25

number item date

key plan



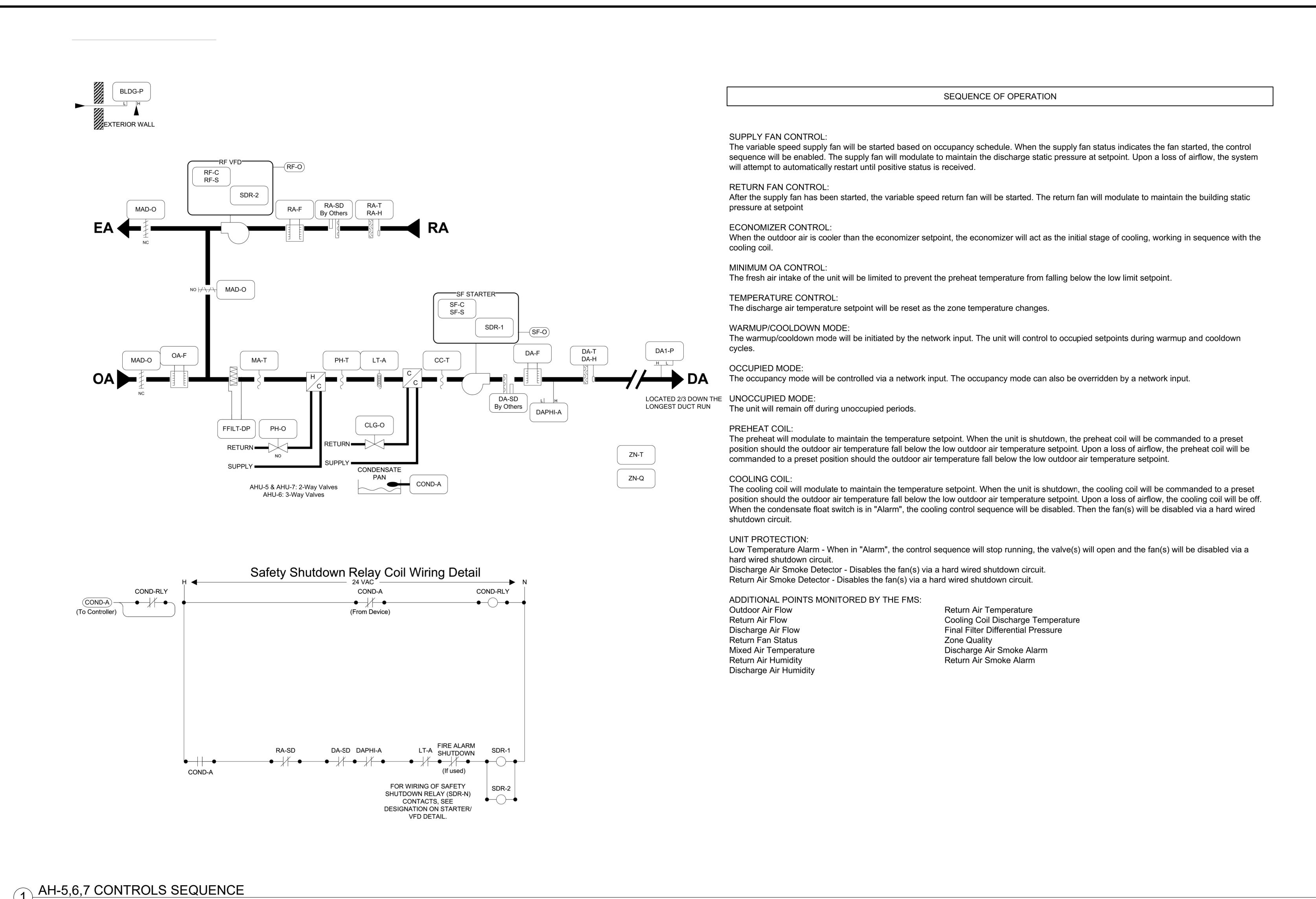
sheet title
MECHANICAL CONTROLS
SEQUENCES

sheet number

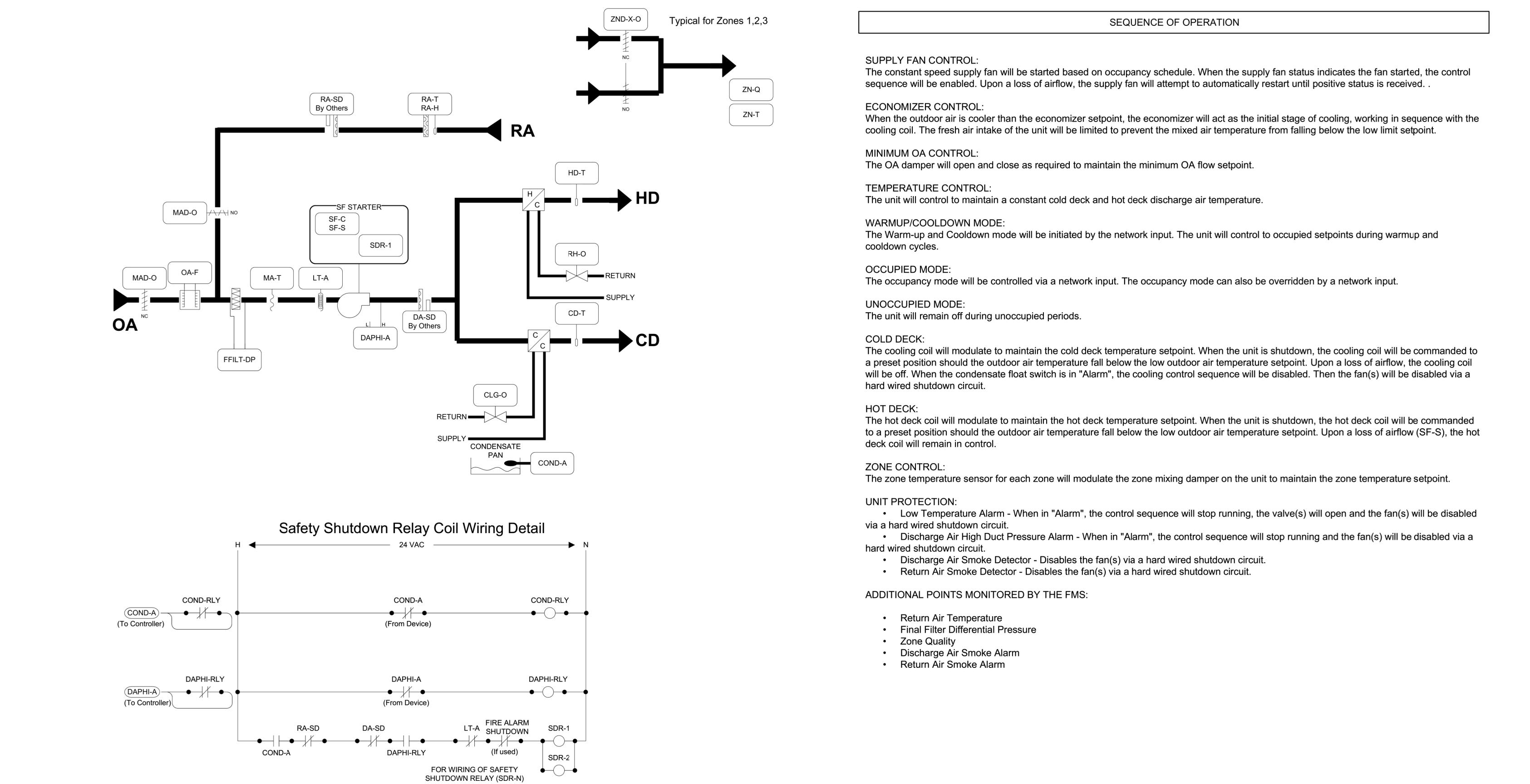
M5.1

drawn by BLM

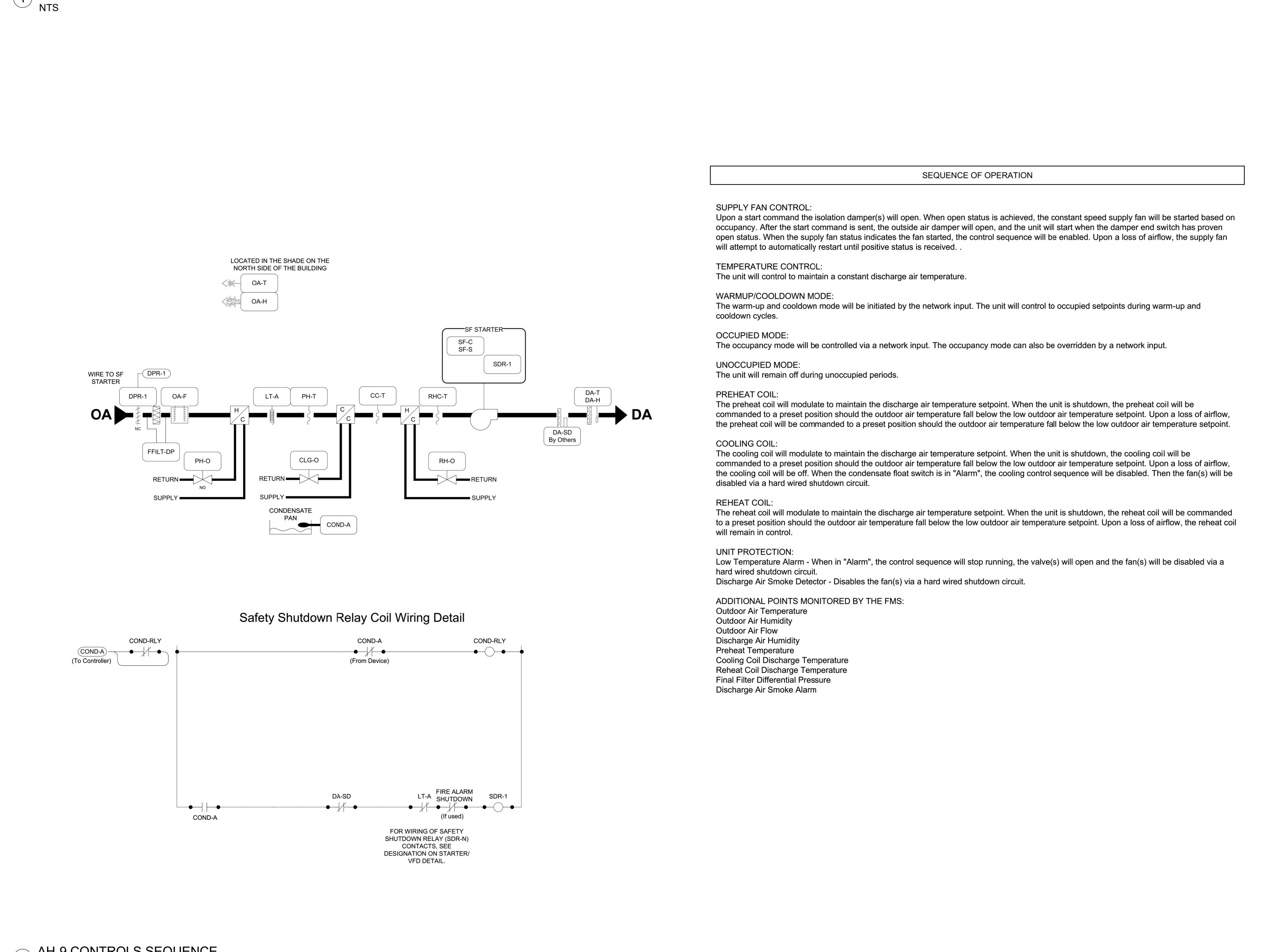
checked by Checker



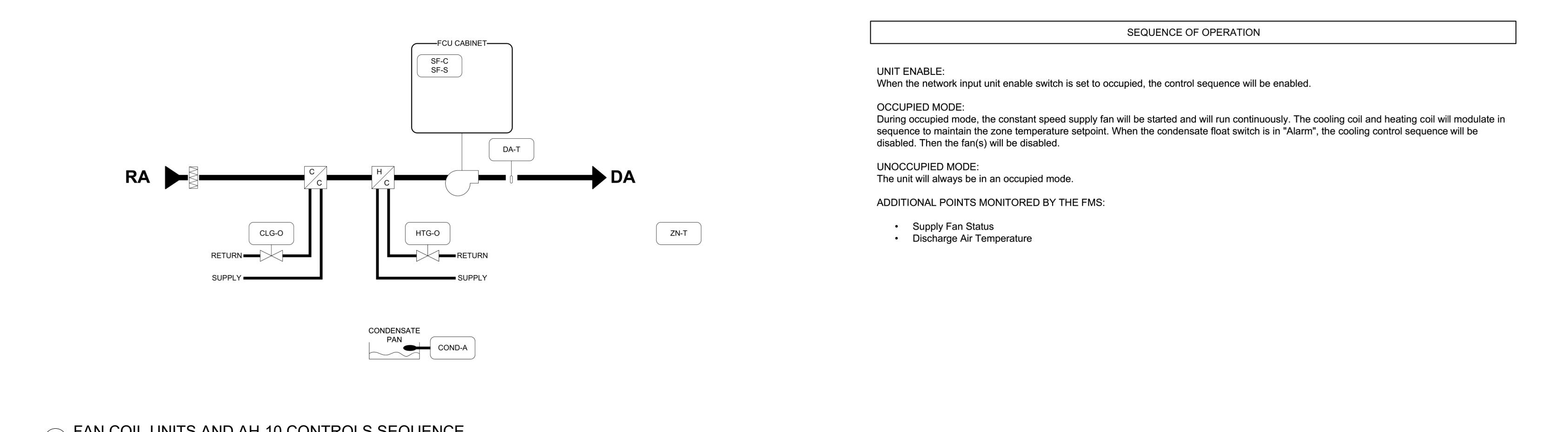
① AH-5,6,7 CONTROLS SEQUENCE
NTS



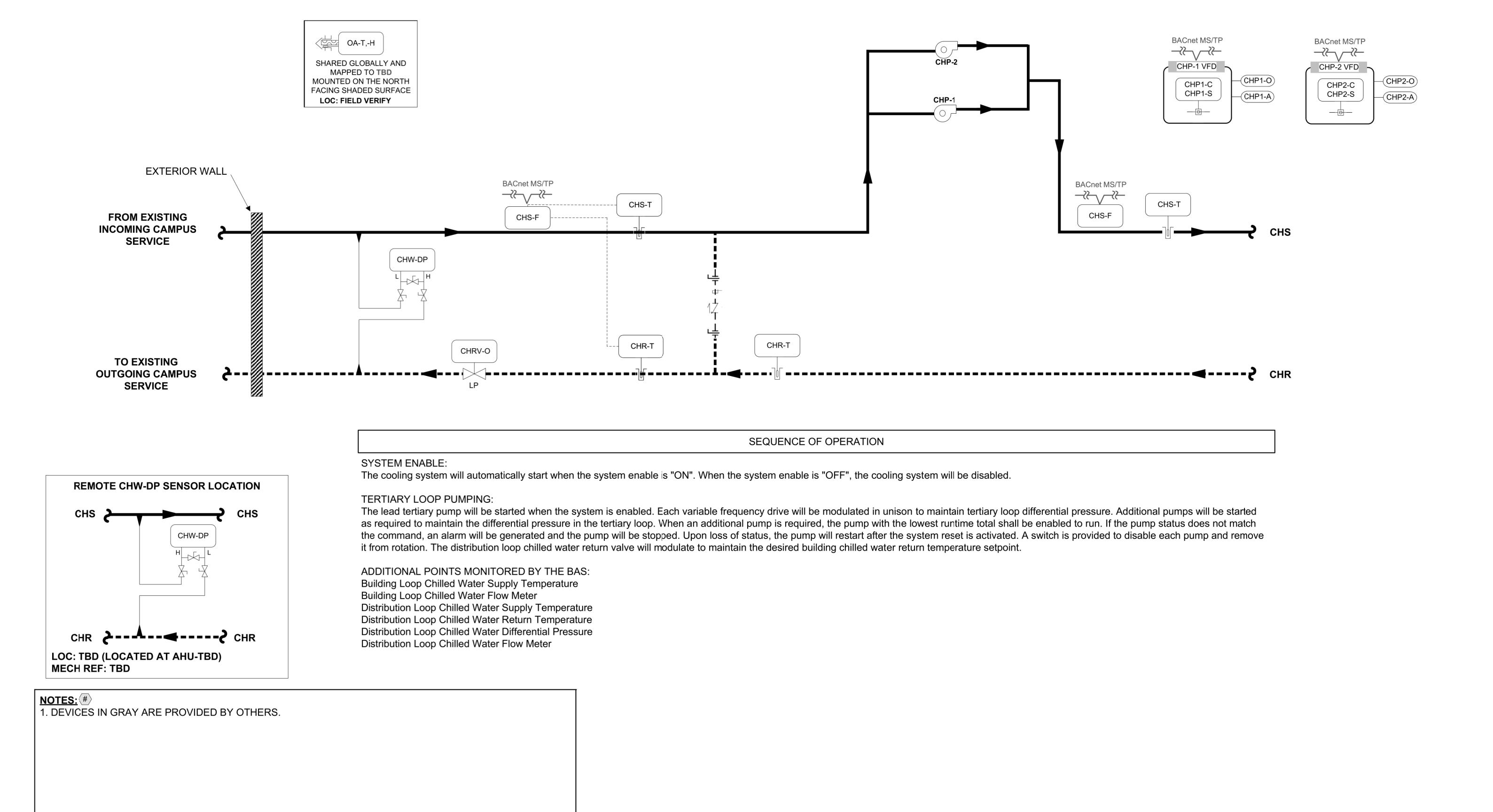
② AH-8 CONTROLS SEQUENCE
NTS



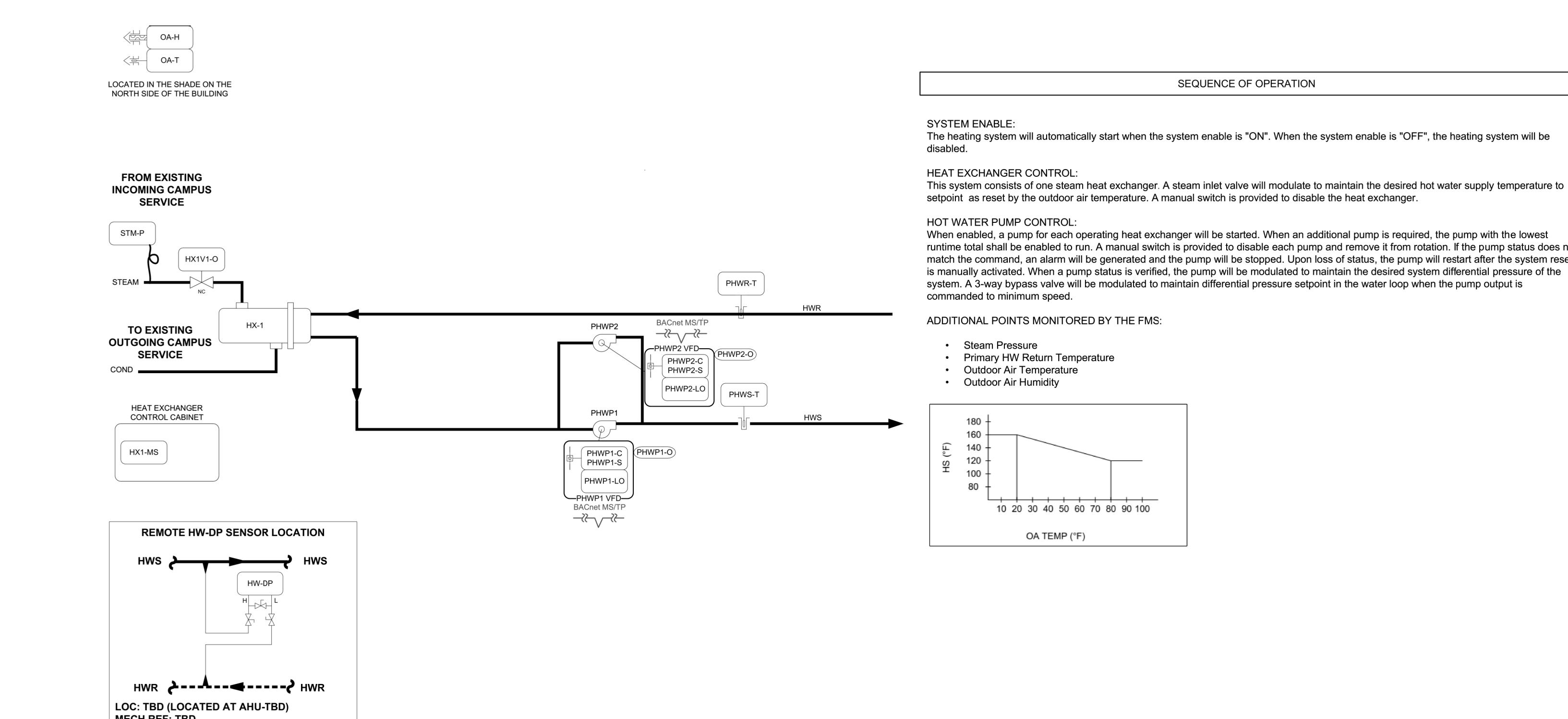
③ AH-9 CONTROLS SEQUENCE
NTS



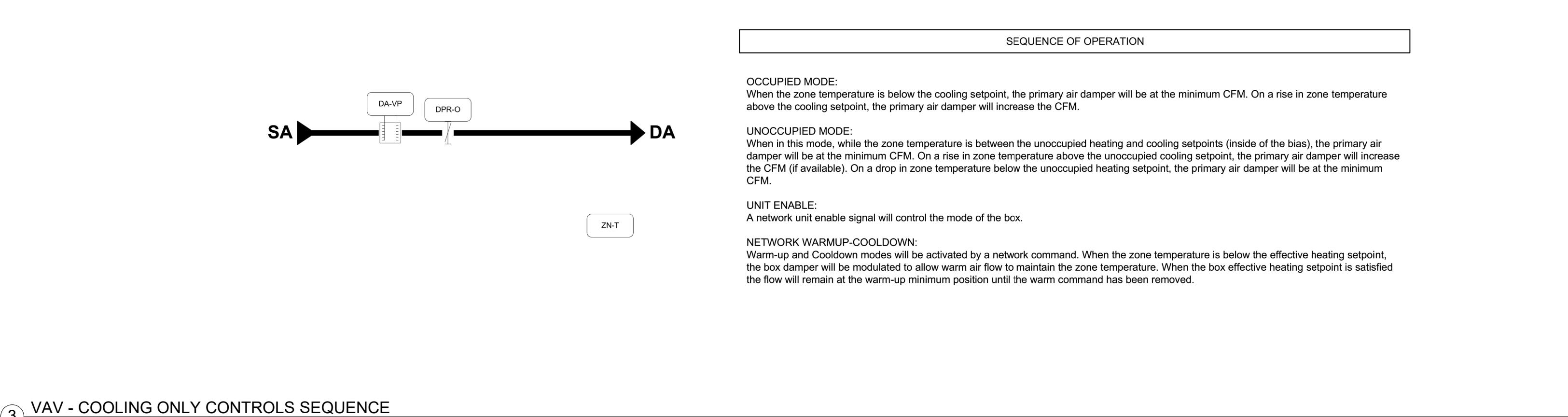
④ FAN COIL UNITS AND AH-10 CONTROLS SEQUENCE
NTS



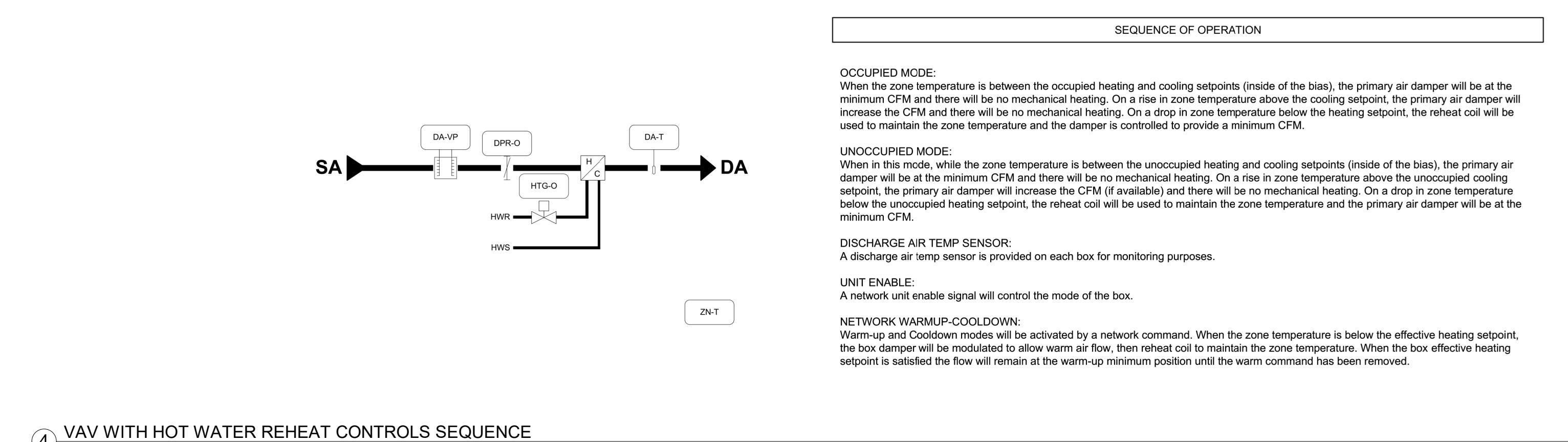
1 CHILLED WATER SYSTEM CONTROLS SEQUENCE



2 HOT WATER SYSTEM CONTROLS SEQUENCE



3 VAV - COOLING ONLY CONTROLS SEQUENCE NTS



4 VAV WITH HOT WATER REHEAT CONTROLS SEQUENCE NTS

NOTE:

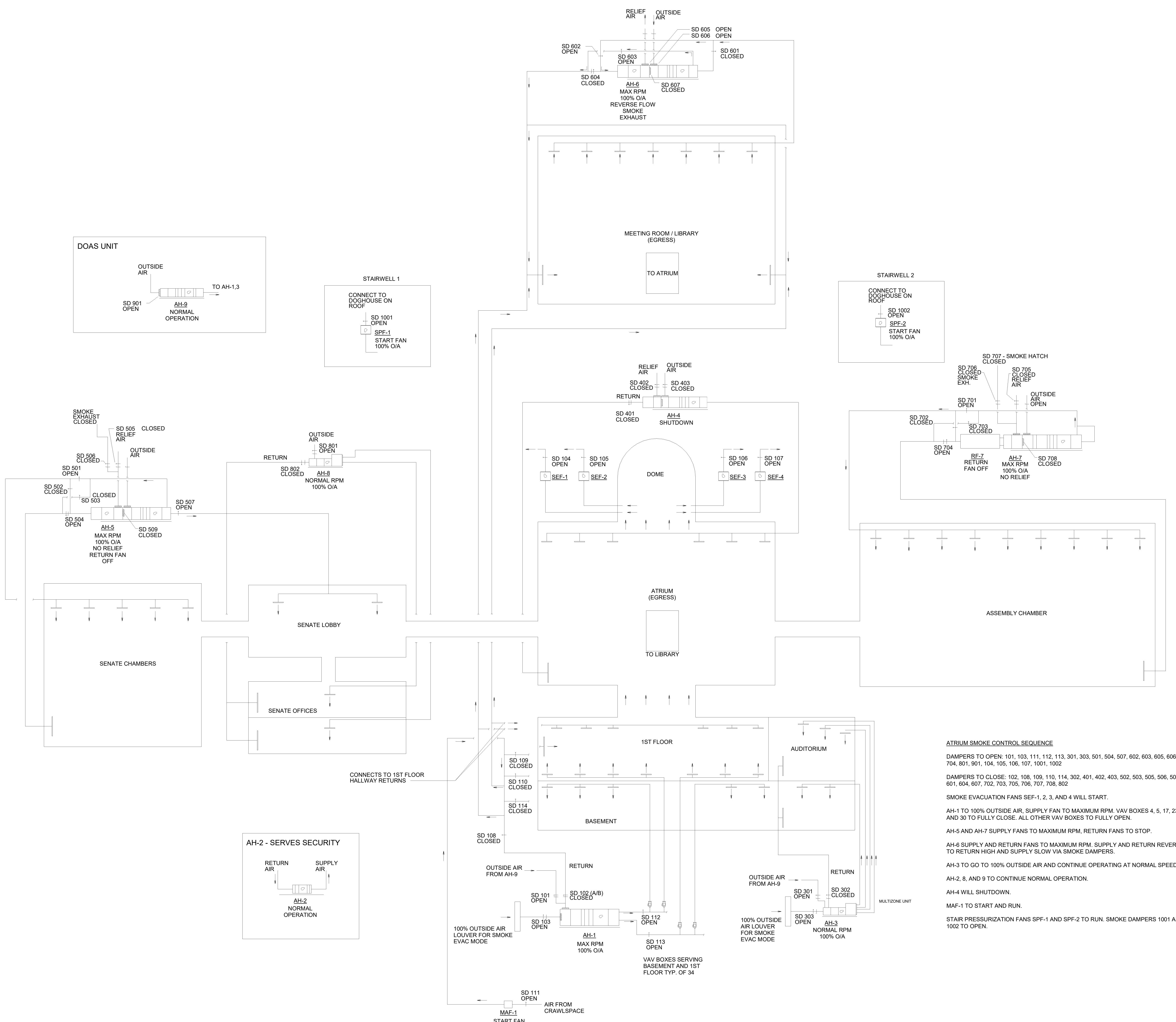
sheet title

MECHANICAL CONTROLS SEQUENCES

sheet number

M5.3

drawn by BLM
 checked by Checker



① CONTROLS SCHEMATIC - ATRIUM SMOKE EVAC OPERATION
NTS

owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature



issued for
CONSTRUCTION

date
12/10/25

number item date

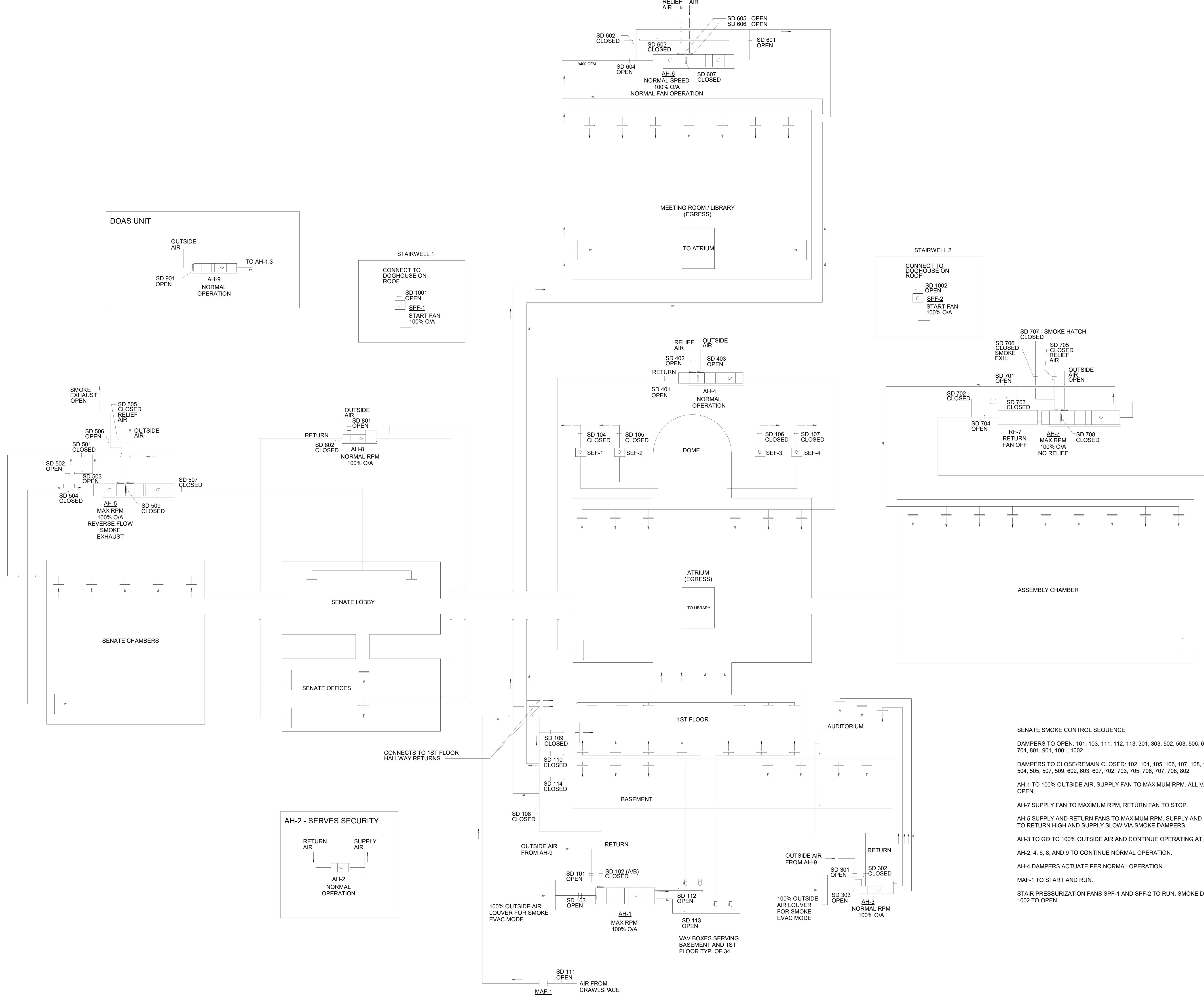
key plan

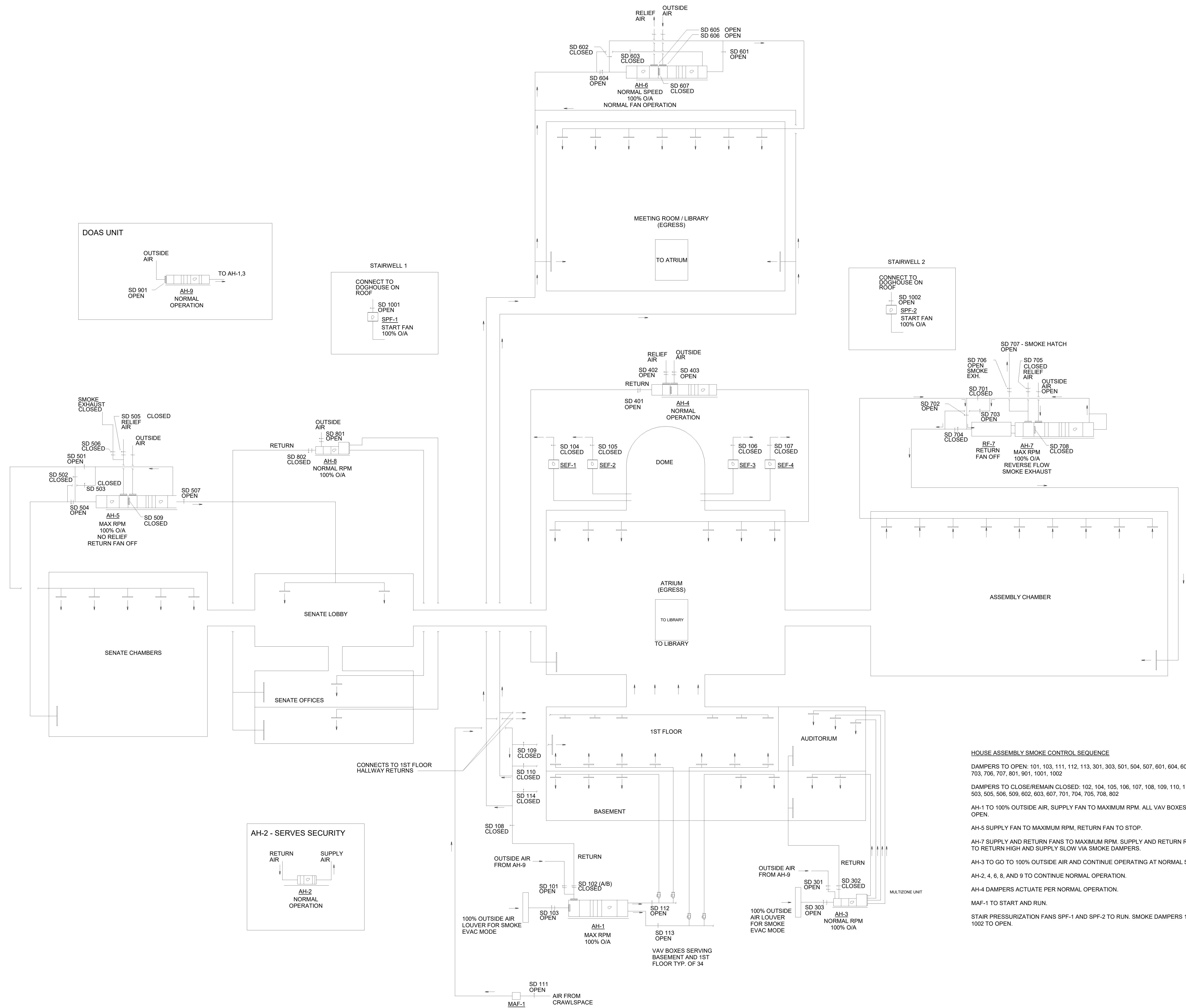
sheet title
CONTROLS SCHEMATIC -
ATRIUM SMOKE EVAC
OPERATION

sheet number

M5.5

drawn by BLM
checked by Checker





CONTROLS SCHEMATIC - ASSEMBLY
SMOKE EVAC OPERATION
1/16" = 1'-0"

owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature



issued for
CONSTRUCTION

date
12/10/25

number item date

key plan



sheet title
CONTROLS SCHEMATIC -
ASSEMBLY SMOKE EVAC
OPERATION

sheet number

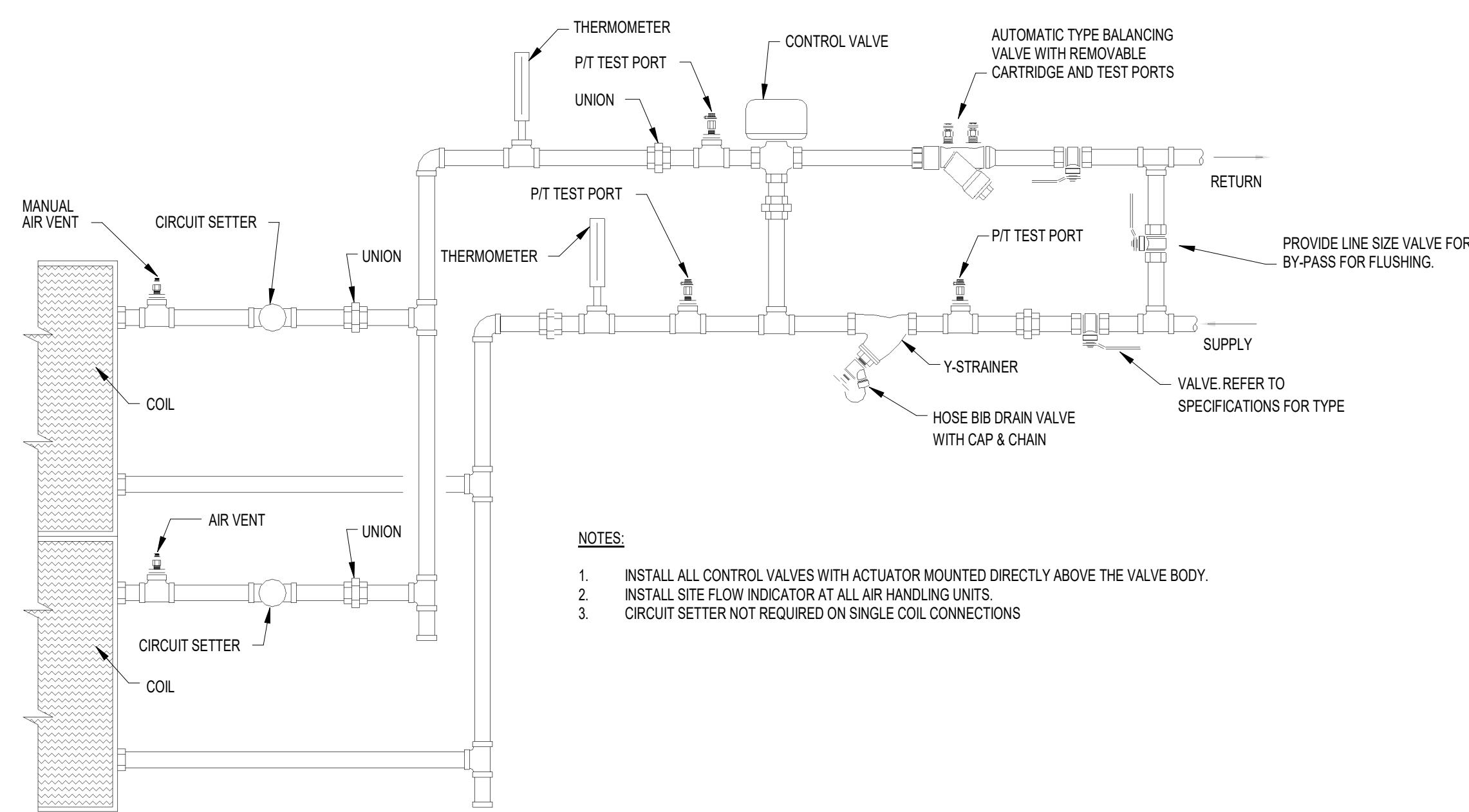
M5.7

drawn by

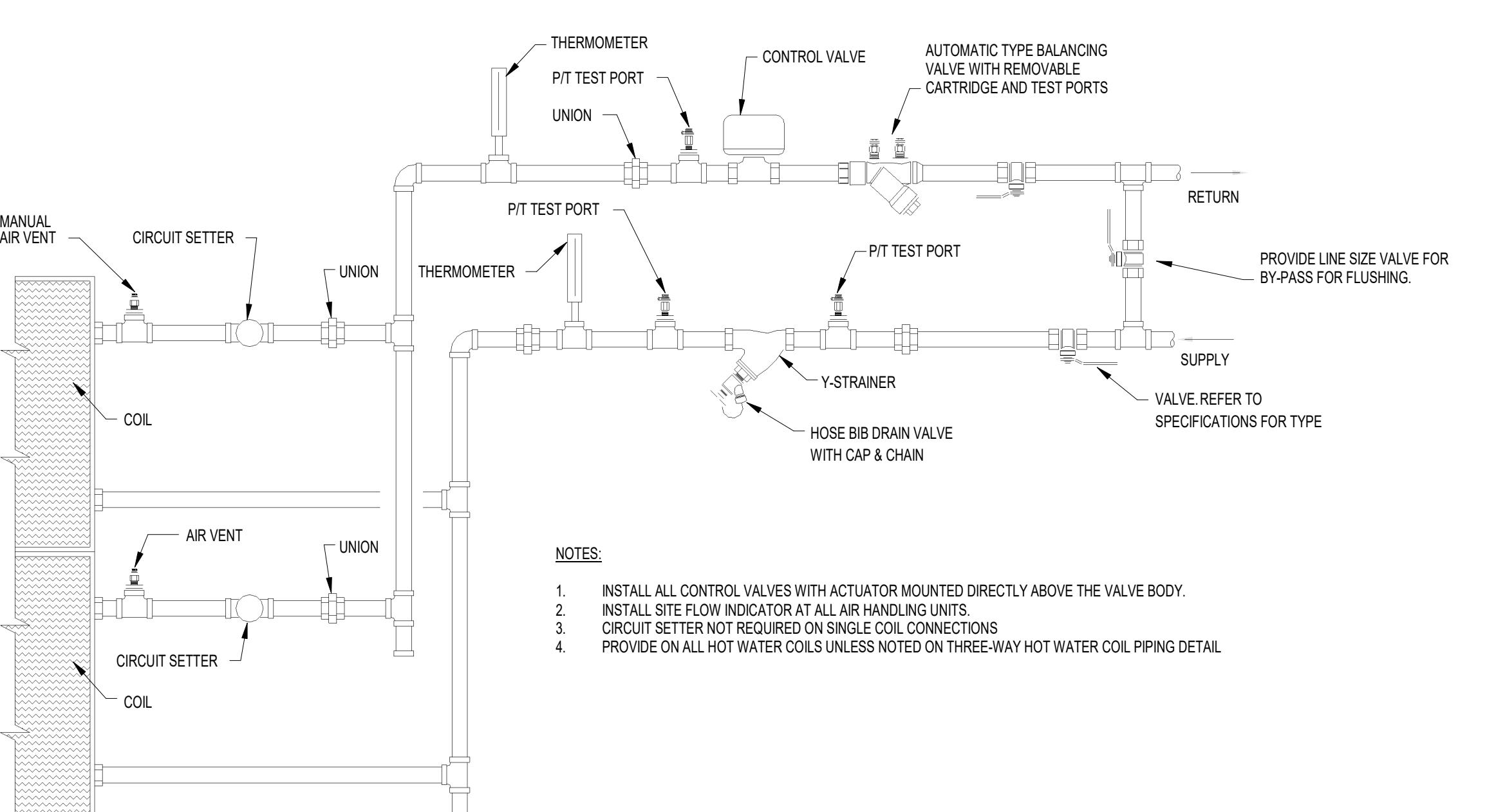
BLM

checked by

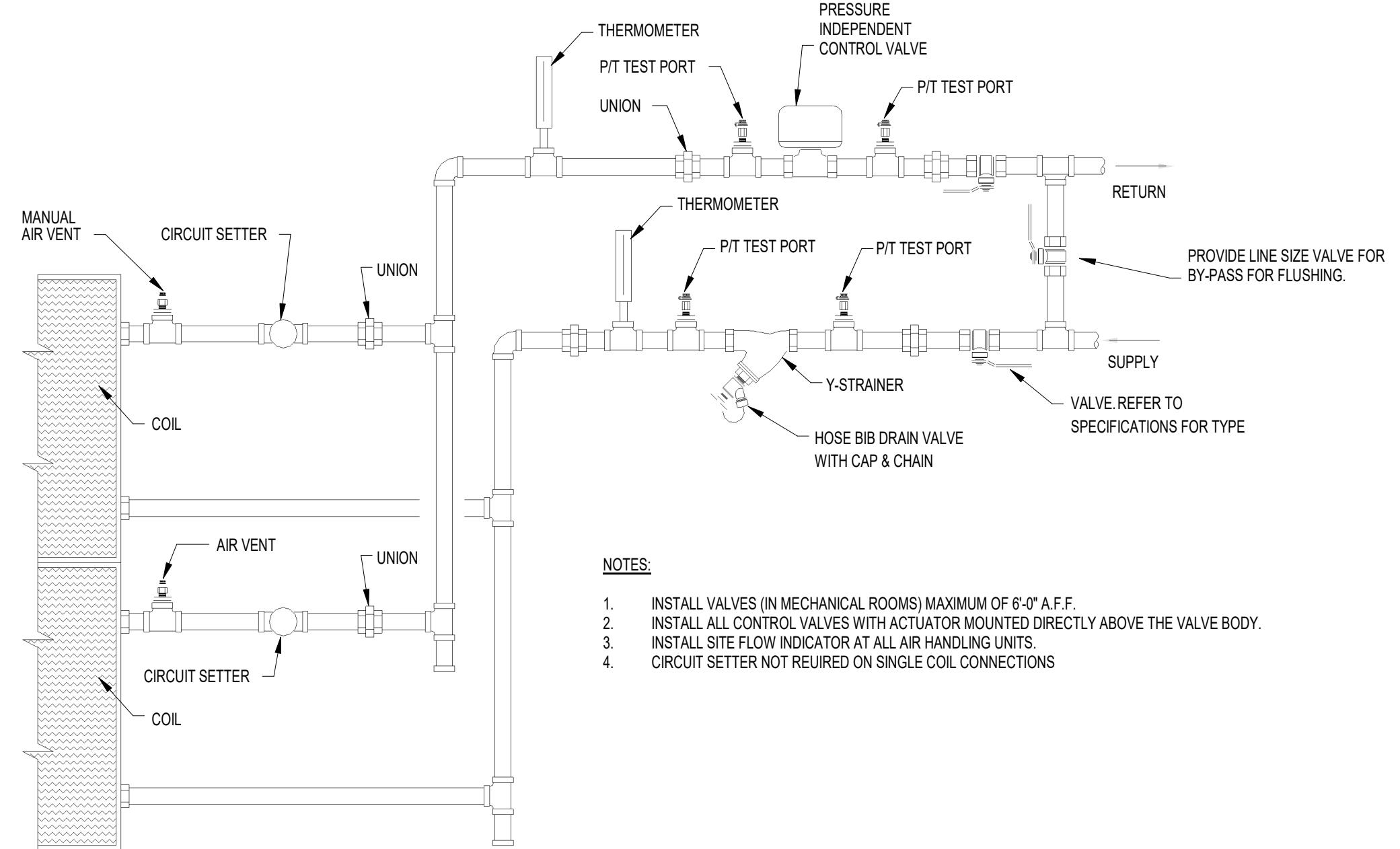
Checker



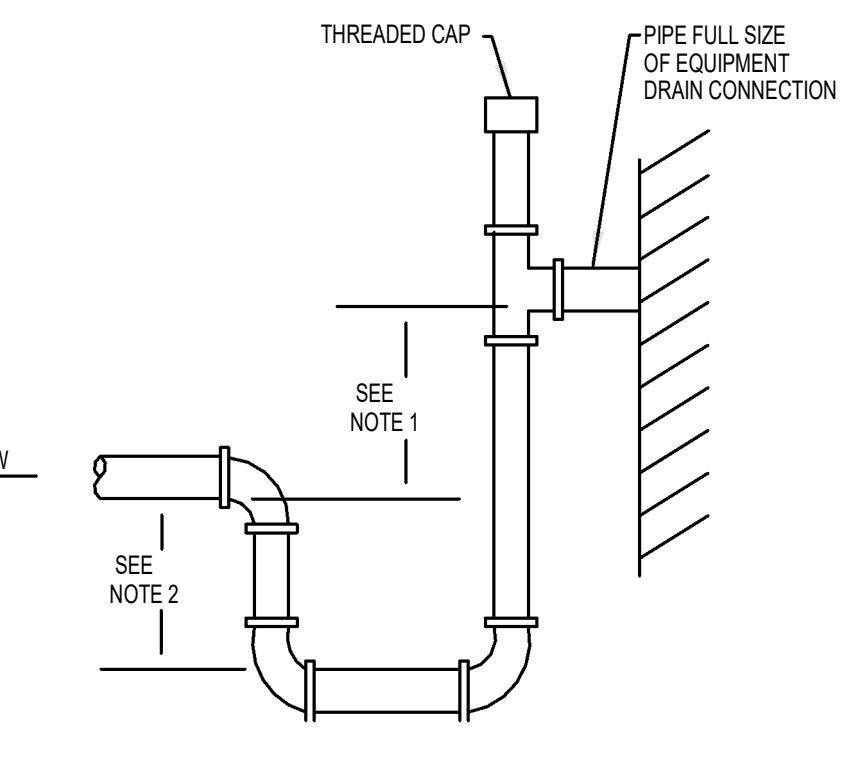
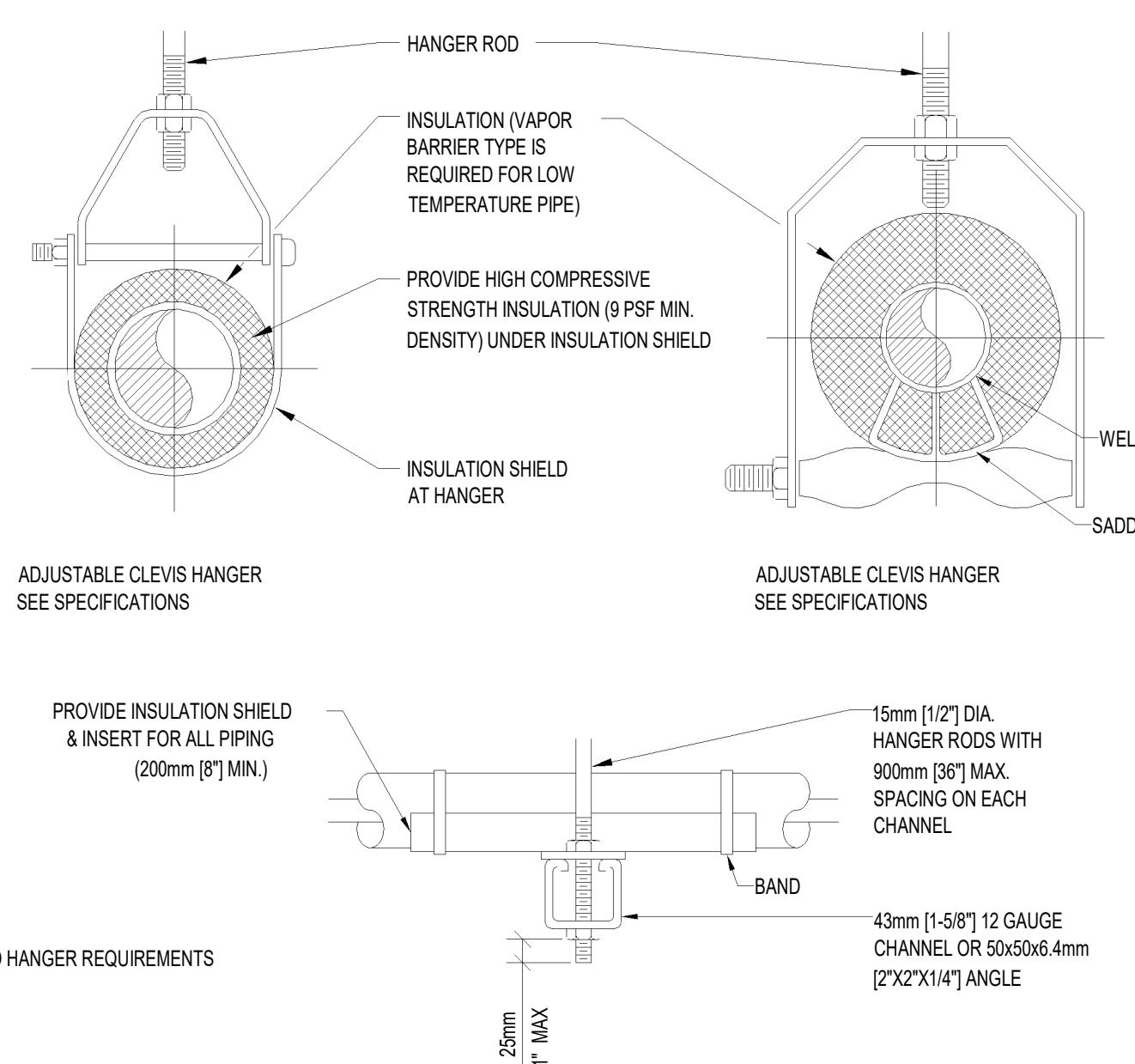
③ THREE WAY CHW/HW COIL PIPING DETAIL
NTS



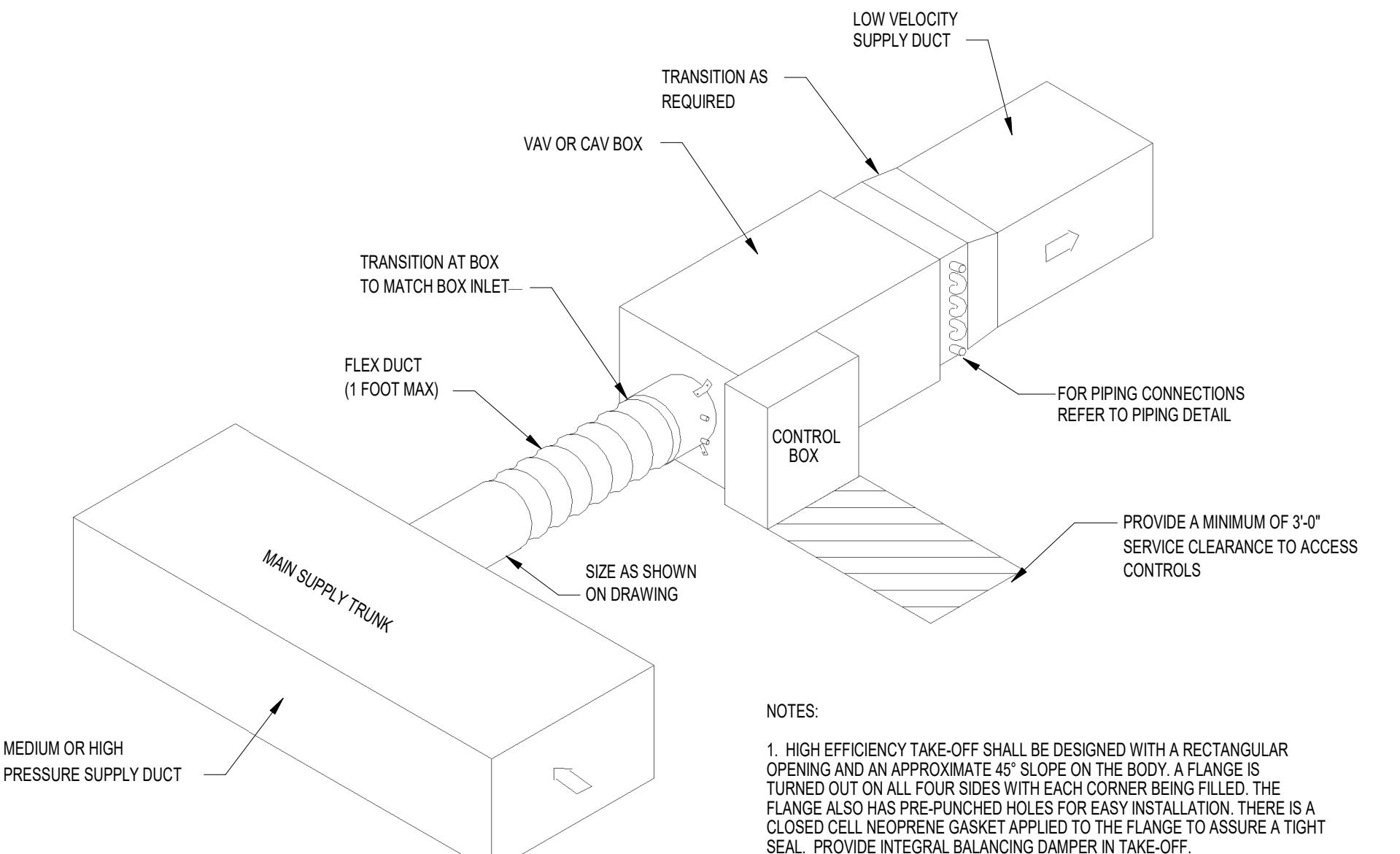
② TWO WAY HOT WATER COIL PIPING DETAIL
NTS



① TWO WAY CHILLED WATER COIL PIPING DETAIL (NTS)



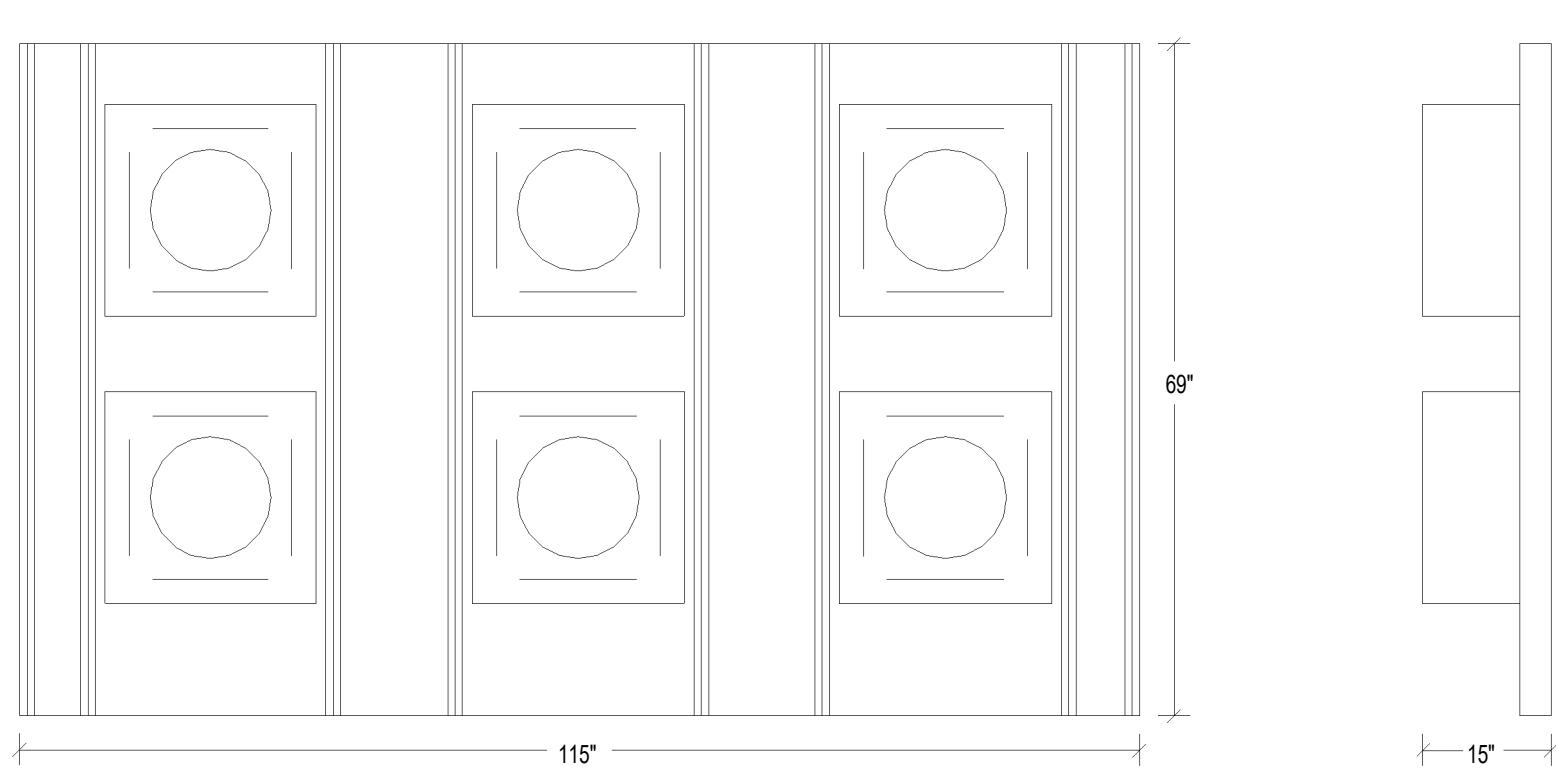
⑤ CONDENSATE DRAIN DETAIL
NTS



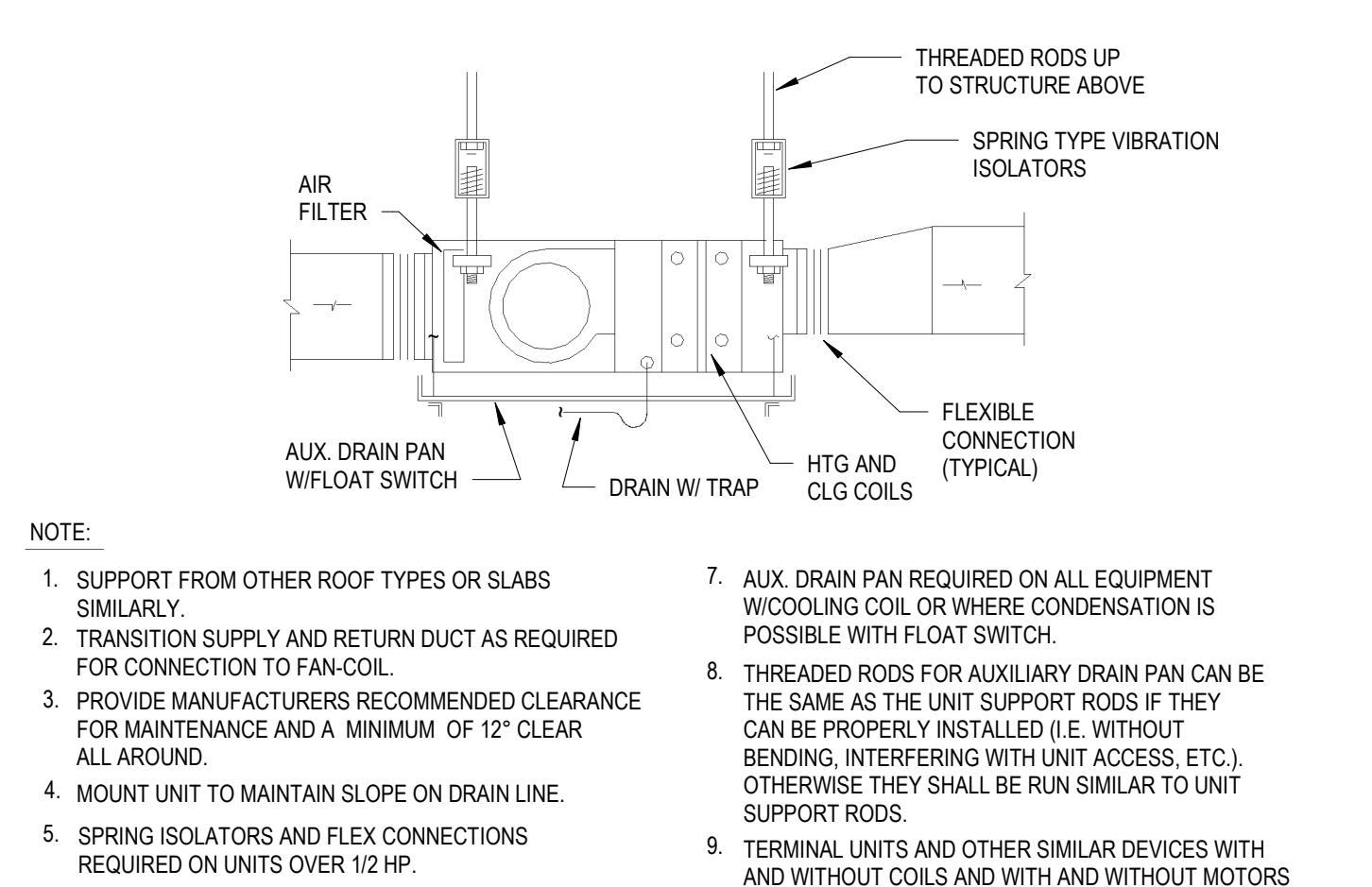
④ VAV BOX WITH HOT WATER REHEAT DETAIL
NTS

MAXIMUM PIPE/TUBING SUPPORT SPACING		mm [in]	THRU 20 [THRU 34]	25	32	40	50	65	75	100	125	150	175	200	225	250	275	300	325	350	400	450	500	600
NOM. SIZE	PIPE	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	
	PIPE	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	
	TUBING	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	mm [in]	
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																								

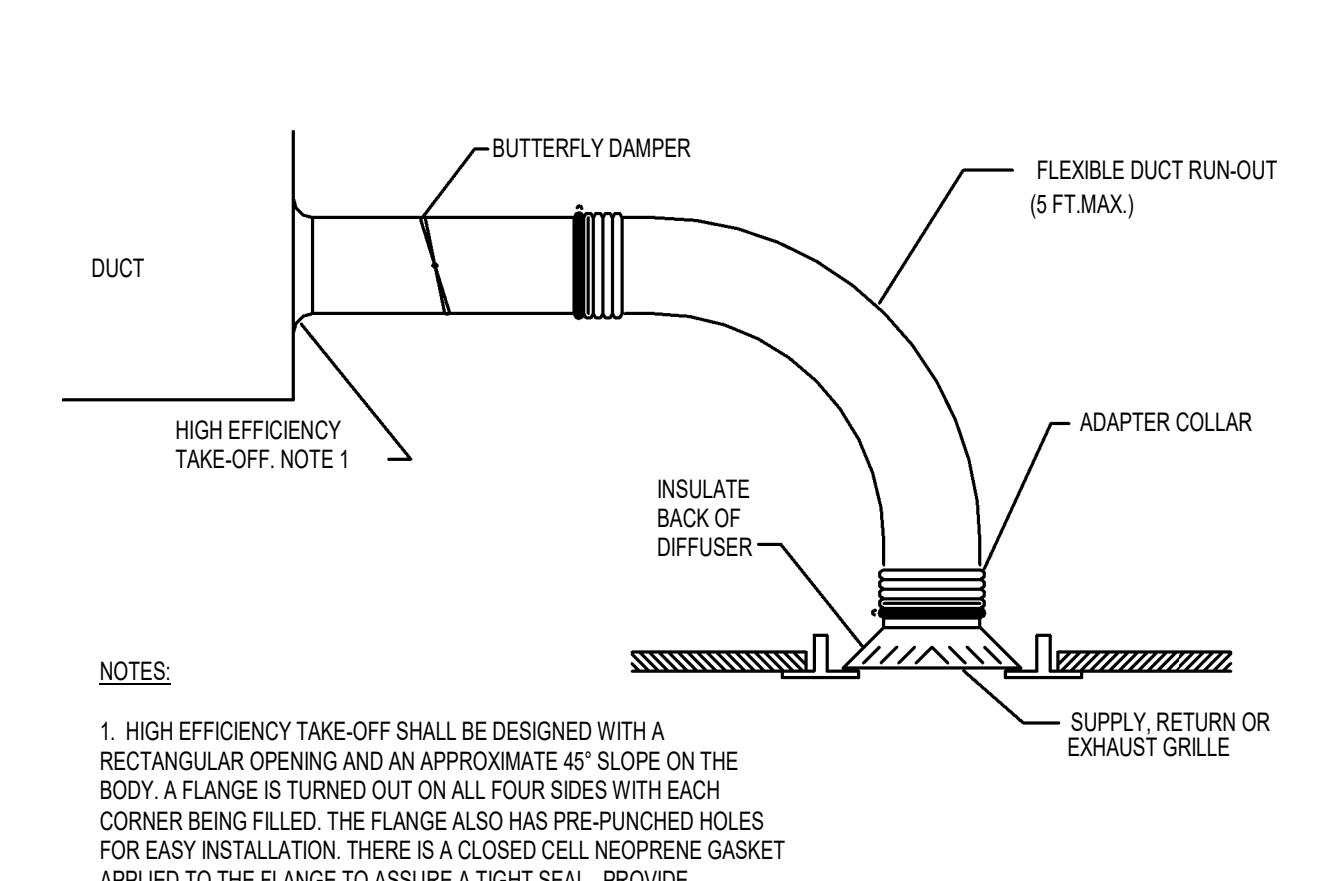
⑥ PIPE HANGER DETAIL
NTS



⑨ SUPPLY FAN ARRAY SFW-1
NTS



⑧ HORIZONTAL FAN COIL UNIT DETAIL
NTS



⑦ FLEX RUNOUT DETAIL
NTS

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature

issued for
CONSTRUCTION

date
12/10/25

number item date

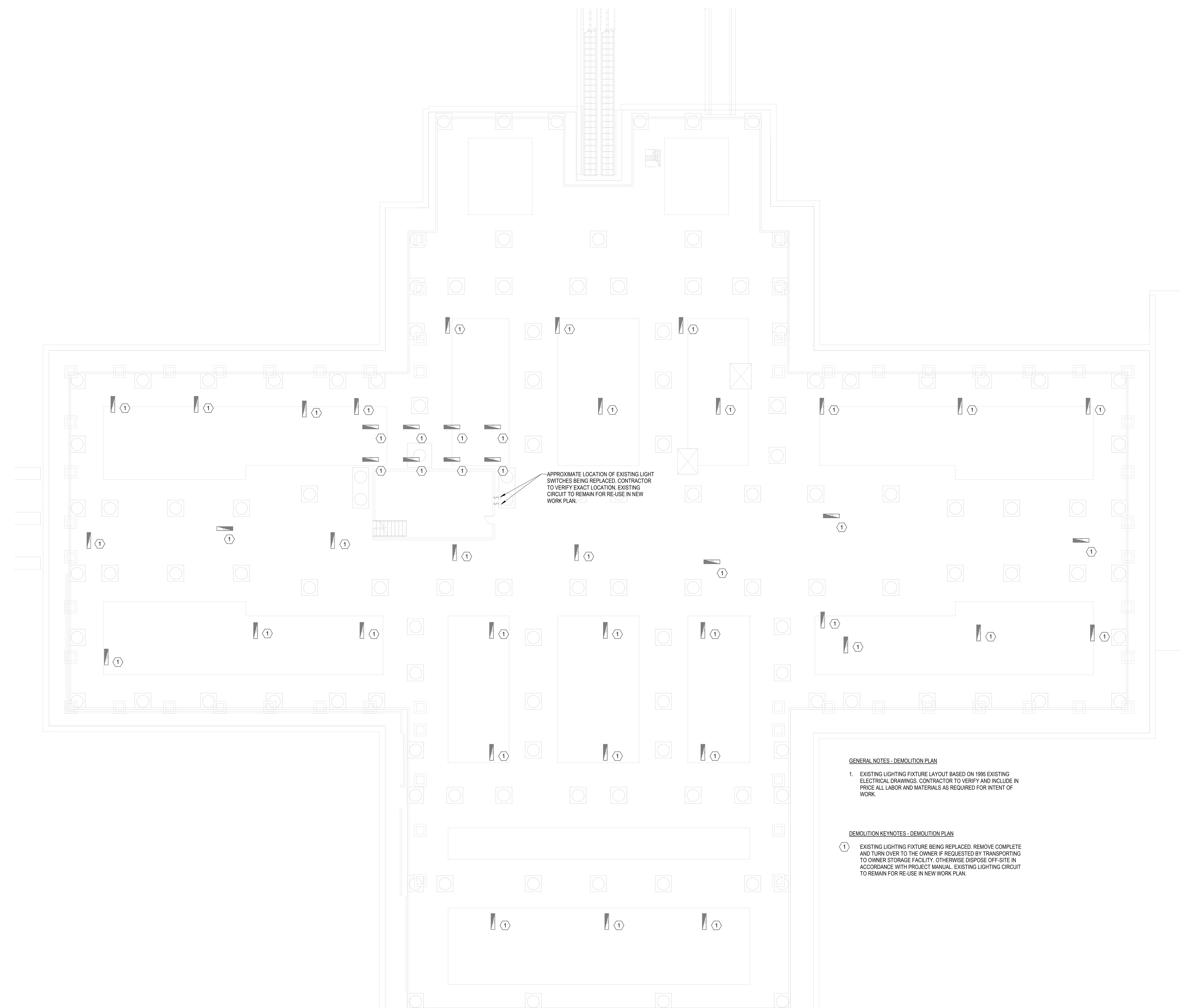
key plan

sheet title
MECHANICAL DETAILS

sheet number

M6.0

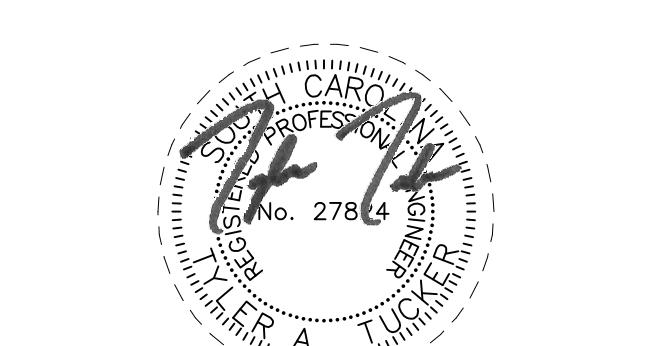
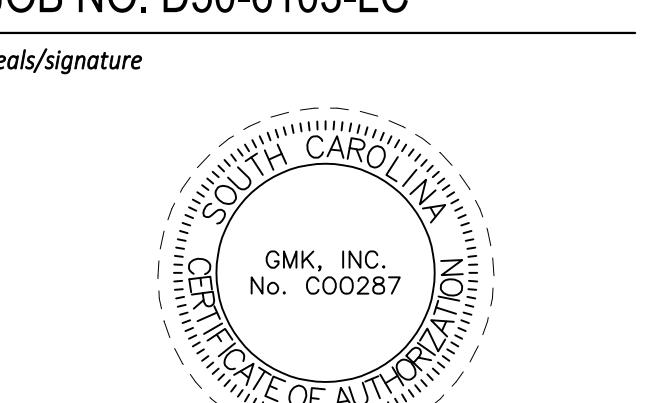
drawn by BLM
checked by Checker



① SUB BASEMENT DEMOLITION PLAN
3/32" = 1'-0"

owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

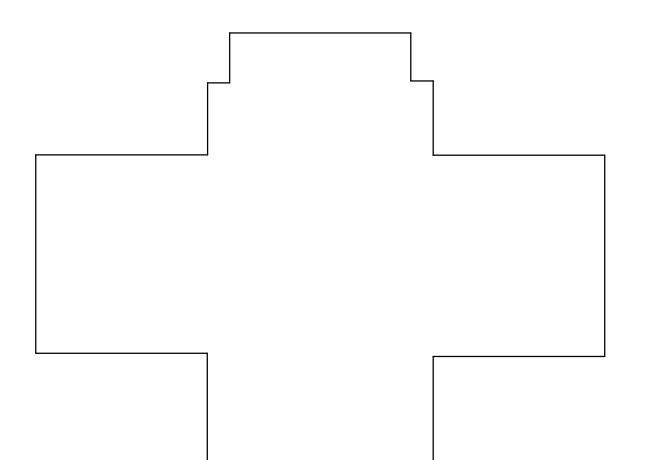


issued for
CONSTRUCTION

date
12/10/25

number | item | date

key plan

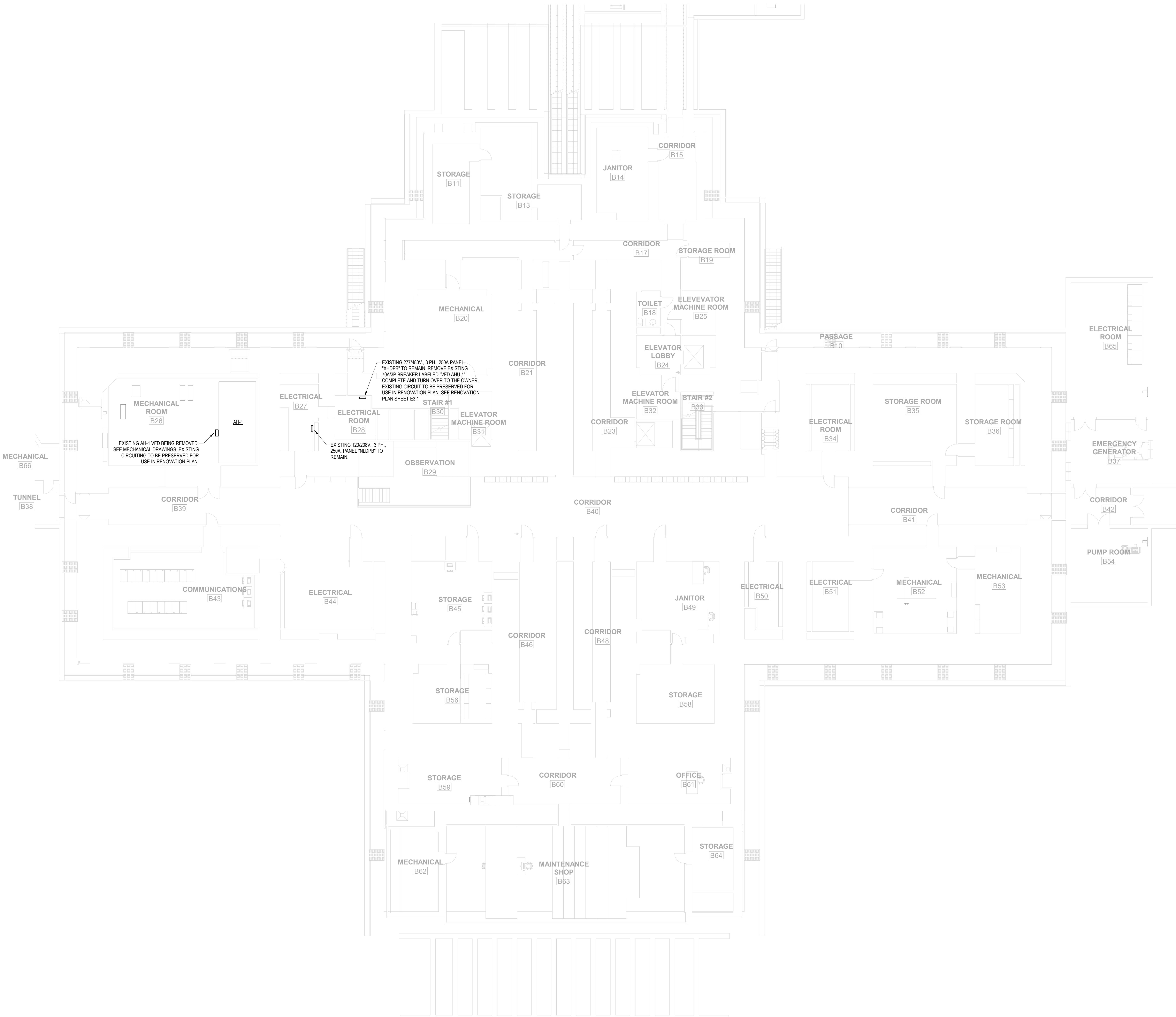
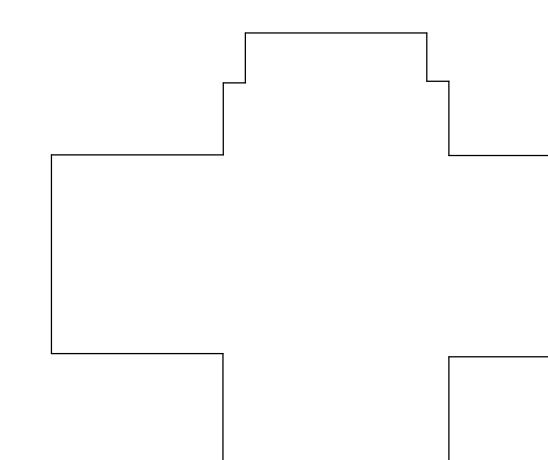
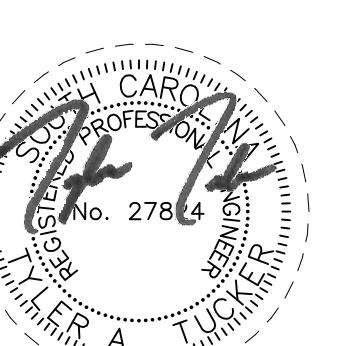


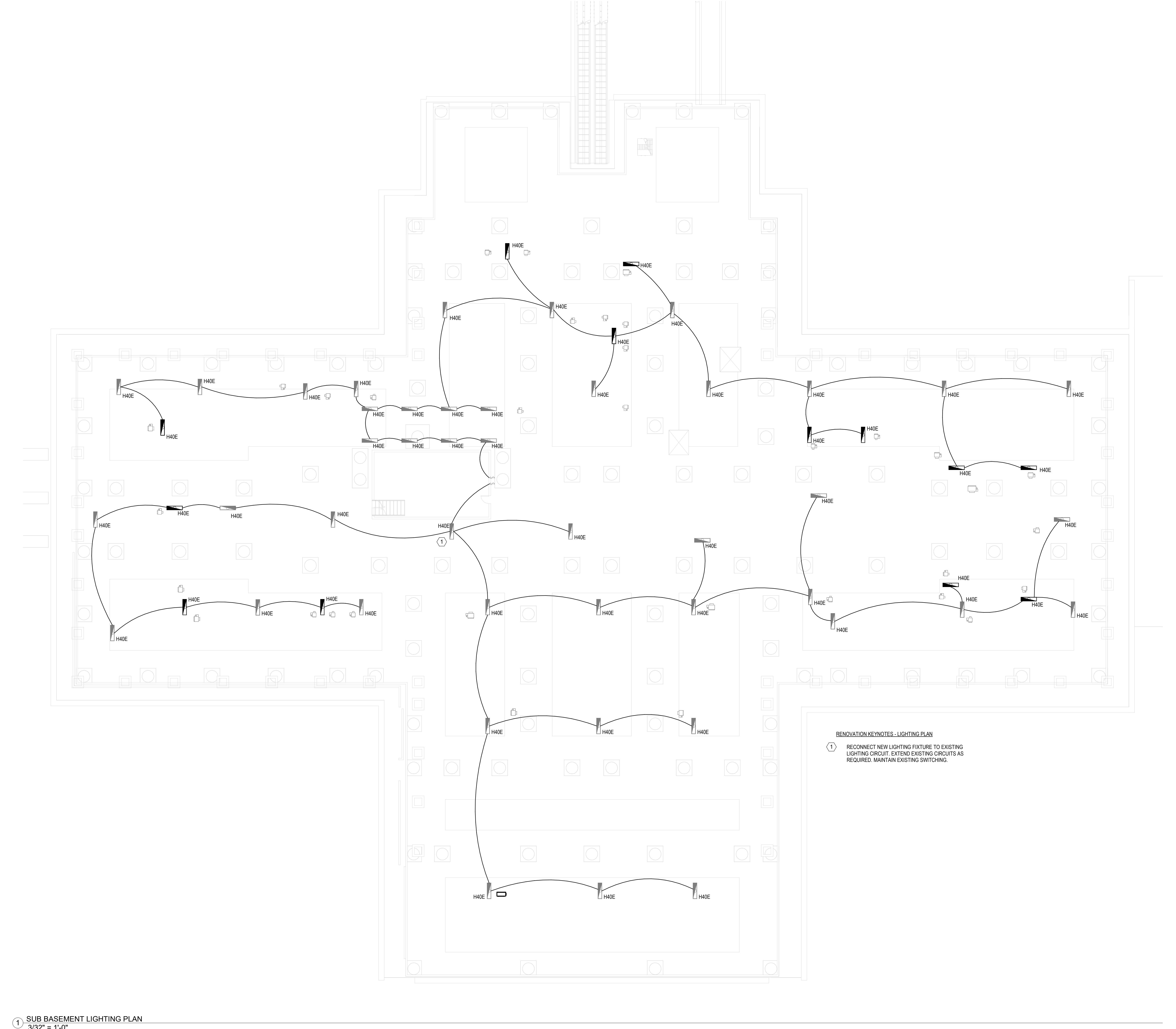
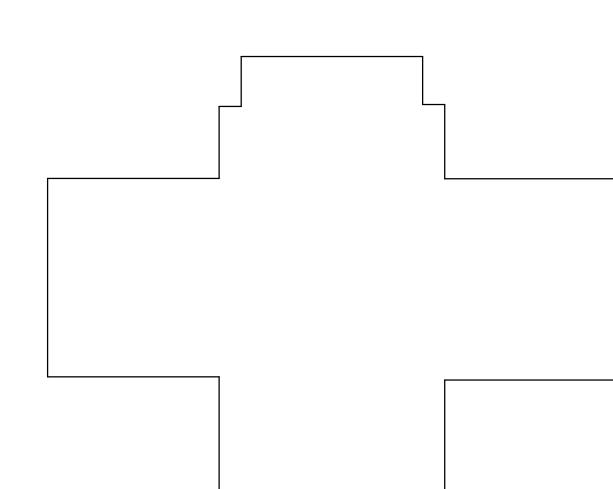
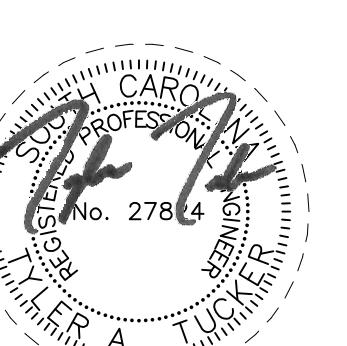
sheet title
SUB BASEMENT LIGHTING
DEMOLITION PLAN

sheet number

E1.1

drawn by AGK
checked by TAT





Lighting Fixture Schedule					
Type	Description	Manufacturer	Model	Input Wattage	Comments
H40E	4-FOOT, VAPOR-TIGHT LED FIXTURE WITH FROSTED POLYCARBONATE LENS, 6000 LUMENS, 4000K, 80 CRI, 0-10V DIMMING CAPABILITY, SURFACE MOUNTED OR PENDANT HUNG.	LITHONIA	CSVT-L48-6000LM-MVOLT-4000K-80CRI-IE7WCP	49W	PROVIDE WITH INTEGRAL BATTERY BACKUP. CONNECTED LINE SIDE OF ANY SWITCHING.

owner
**SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES**

project name
**SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD**
project number

project number

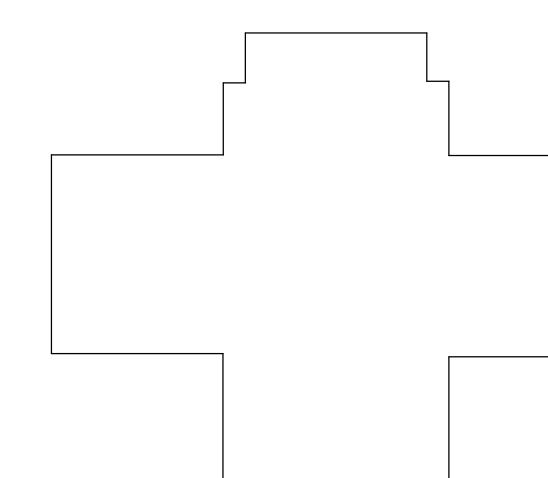
A circular stamp with a dashed outer border. The words "SOUTH CAROLINA" are arched along the top inner edge, and "DEPARTMENT OF MOTOR VEHICLES" are arched along the bottom inner edge. The center of the stamp contains the text "GMK, INC." on top and "No. CO0287" below it.

issued for
CONSTRUCTION

date

<i>number</i>	<i>item</i>	<i>date</i>
---------------	-------------	-------------

key plan



sheet title

BASEMENT LEVEL POWER PLAN

sheet number

E3.1

drawn by AGK
checked by TAT

Branch Panel: XHDPB																																									
Location: ELECTRICAL ROOM B2B				Volts: 277/480 Wye				A.I.C. Rating: 22k																																	
Supply From: XDP				Phases: 3				Mains Type: MCB																																	
Mounting: Surface Mounted				Wires: 4				Mains Rating: 250 A																																	
Enclosure: Type 1				MCB Rating: 250 A																																					
Notes:																																									
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT																															
1	VFD Fan Wall	20 A	3	9.8 kVA	--		3	--	(EX) Elevator 1	2																															
3	--	--			9.8 kVA	--	--	--	--	4																															
5	--	--				9.8 kVA	--	--	--	6																															
7	Spare	--	3	--	--		3	--	(EX) Panel AXHB	8																															
9	--	--			--	--	--	--	--	10																															
11	--	--			--	--	--	--	--	12																															
13	(EX) VFD-HHWP	--	3	--	--		3	--	(EX) Panel 2XHB	14																															
15	--	--			--	--	--	--	--	16																															
17	--	--			--	--	--	--	--	18																															
19	(EX) Panel XLDPB Via TXLD	--	3	--	--		3	--	(EX) Panel 1XHB	20																															
21	--	--			--	--	--	--	--	22																															
23	--	--			--	--	--	--	--	24																															
25	Space	--	3	--	--		3	--	Space	26																															
27	--	--			--	--	--	--	--	28																															
29	--	--			--	--	--	--	--	30																															
31	Space	--	3	--	--		3	--	Space	32																															
33	--	--			--	--	--	--	--	34																															
35	--	--			--	--	--	--	--	36																															
37	Space	--	3	--	--		3	--	(EX) Power Cond. Filter PCF-XLDPB	38																															
39	--	--			--	--	--	--	--	40																															
41	--	--			--	--	--	--	--	42																															
New Total Load:				9.8 kVA	9.8 kVA	9.8 kVA																																			
New Total Amps:				35 A	35 A	35 A																																			
Legend:																																									
<table border="1"> <thead> <tr> <th>Load Classification</th><th>Connected Load</th><th>Demand Factor</th><th>Estimated Demand</th><th>Panel Totals</th></tr> </thead> <tbody> <tr> <td>Other</td><td>29500 VA</td><td>100.00%</td><td>29500 VA</td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Conn. Load: 29500 VA</td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Est. Demand: 29500 VA</td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Conn.: 35 A</td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Est. Demand: 35 A</td></tr> </tbody> </table>												Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	Other	29500 VA	100.00%	29500 VA						New Conn. Load: 29500 VA					New Est. Demand: 29500 VA					New Conn.: 35 A					New Est. Demand: 35 A
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals																																					
Other	29500 VA	100.00%	29500 VA																																						
				New Conn. Load: 29500 VA																																					
				New Est. Demand: 29500 VA																																					
				New Conn.: 35 A																																					
				New Est. Demand: 35 A																																					
Notes:																																									
NOTE 1: "EX." DENOTES EXISTING CIRCUIT BREAKER TO REMAIN.																																									

Branch Panel: NLDPB																																									
Location: ELECTRICAL ROOM B27				Volts: 120/208 Wye				A.I.C. Rating: 10k																																	
Supply From: TNLDPB				Phases: 3				Mains Type: MCB																																	
Mounting: Surface Mounted				Wires: 4				Mains Rating: 250 A																																	
Enclosure: Type 1				MCB Rating: 250 A																																					
Notes:																																									
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT																															
1	(EX) Receptacles	--	1	--	--	--	1	--	(EX) EF-6	2																															
3	(EX) Receptacles	--	1	--	--	--	1	--	(EX) CP-6.	4																															
5	(EX) Receptacles	--	1	--	--	--	1	--	Spare	6																															
7	(EX) Receptacles	--	1	--	0.9 kVA		2	20 A	Fan Coils (Basement)	8																															
9	(EX) Receptacles	--	1	--	--	0.9 kVA	--	--	--	10																															
11	(EX) Receptacles	--	1	--	--	--	1	--	Space	12																															
13	Spare	--	1	--	--	--	1	--	Space	14																															
15	Spare	--	1	--	--	--	1	--	Space	16																															
17	Space	--	1	--	--	--	1	--	Space	18																															
19	Space	--	1	--	--	--	1	--	Space	20																															
21	Space	--	1	--	--	--	1	--	Space	22																															
23	Space	--	1	--	--	--	1	--	Space	24																															
25	Space	--	1	--	--	--	1	--	Space	26																															
27	Space	--	1	--	--	--	1	--	Space	28																															
29	Space	--	1	--	--	--	1	--	Space	30																															
31	(EX) Panel 2NLB	--	3	--	--	--	3	--	(EX) Panel ANLB	32																															
33	--	--			--	--	--	--	--	34																															
35	--	--			--	--	--	--	--	36																															
37	(EX) Panel 1NLB	--	3	--	--	--	3	--	(EX) Power Cond. Filter PCF-NLDPB	38																															
39	--	--			--	--	--	--	--	40																															
41	--	--			--	--	--	--	--	42																															
New Total Load:				0.9 kVA	0.9 kVA	0.0 kVA																																			
New Total Amps:				8 A	8 A	0 A																																			
Legend:																																									
<table border="1"> <thead> <tr> <th>Load Classification</th><th>Connected Load</th><th>Demand Factor</th><th>Estimated Demand</th><th>Panel Totals</th></tr> </thead> <tbody> <tr> <td>Other</td><td>1750 VA</td><td>100.00%</td><td>1750 VA</td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Total Conn. Load: 1750 VA</td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Total Est. Demand: 1750 VA</td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Total Conn.: 5 A</td></tr> <tr> <td></td><td></td><td></td><td></td><td>New Total Est. Demand: 5 A</td></tr> </tbody> </table>												Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	Other	1750 VA	100.00%	1750 VA						New Total Conn. Load: 1750 VA					New Total Est. Demand: 1750 VA					New Total Conn.: 5 A					New Total Est. Demand: 5 A
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals																																					
Other	1750 VA	100.00%	1750 VA																																						
				New Total Conn. Load: 1750 VA																																					
				New Total Est. Demand: 1750 VA																																					
				New Total Conn.: 5 A																																					
				New Total Est. Demand: 5 A																																					
Notes:																																									
NOTE 1: "EX." DENOTES EXISTING CIRCUIT BREAKER TO REMAIN.																																									

