

SPLIT SYSTEM HEAT PUMP SCHEDULE

COMPRESSOR					AIR HANDLING UNIT																			
SYMBOL	COOLING CAPACITY (TONS)	ELECTRIC				MFG.	MODEL	SYMBOL	TYPE	STRIP (KW)	ELECTRIC				MFG.	MODEL	FAN CFM	FRESH AIR INTAKE (CFM)	ESP (IN OF H2O) VERT/H.R.	SEER	DAMPER CONTROL	HUMIDITY CONTROL	STAGES	REMARKS
		VOLT	PHASE	MCA	MOPC						VOLT	PHASE	MCA	MOPC										
HP-1	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-1	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	100	0.7	15	NO	YES	1	-
HP-2	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-2	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	100	0.7	15	NO	YES	1	-
HP-3	3 TONS	208	1	18	30	TRANE	4TWR4036N	AHU-3	HORZ	7.2	208	1	49	50	TRANE	TEM6A0C36H	1,150	180	0.7	15	NO	YES	1	-
HP-4	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-4	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	975	150	0.7	15	NO	YES	1	-
HP-5	5 TONS	208	1	32	50	TRANE	4TWR4060N	AHU-5	HORZ	10.8	208	3	30	45	TRANE	TEM6A0C60H	1,975	250	0.9	15	NO	YES	1	-
HP-6	1½ TONS	208	1	15	25	TRANE	4TWR4018N	AHU-6	HORZ	3.8	208	1	24	25	TRANE	TEM6A0C18H	600	90	0.7	15	NO	YES	1	-
HP-6A	3 TONS	208	1	18	30	TRANE	4TWR4036N	AHU-6A	HORZ	7.2	208	1	49	50	TRANE	TEM6A0C36H	1,225	180	0.7	15	NO	YES	1	-
HP-7	3½ TONS	208	1	24	40	TRANE	4TWR4042N	AHU-7	HORZ	7.2	208	1	49	50	TRANE	TEM6A0C42H	1,400	150	0.7	15	NO	YES	1	-
HP-8	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-8	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,050	100	0.7	15	NO	YES	1	-
HP-9	2 TONS	208	1	15	25	TRANE	4TWR4024N	AHU-9	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B24H	800	75	0.7	15	NO	YES	1	-
HP-10	2 TONS	208	1	15	25	TRANE	4TWR4024N	AHU-10	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B24H	800	75	0.7	15	NO	YES	1	-
HP-11	5 TONS	208	1	32	50	TRANE	4TWR4060N	AHU-11	HORZ	10.8	208	3	30	45	TRANE	TEM6A0C60H	1,960	250	0.9	15	NO	YES	1	-
HP-12	5 TONS	208	1	32	50	TRANE	4TWR4060N	AHU-12	HORZ	10.8	208	3	30	45	TRANE	TEM6A0C60H	1,950	200	0.9	15	NO	YES	1	-
HP-13	2 TONS	208	1	15	25	TRANE	4TWR4024N	AHU-13	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B24H	750	75	0.7	15	NO	YES	1	-
HP-14	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-14	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	120	0.7	15	NO	YES	1	-
HP-15	4 TONS	208	1	26	40	TRANE	4TWR4048N	AHU-15	HORZ	7.2	208	1	52	60	TRANE	TEM6A0C48H	1,550	240	0.7	15	NO	YES	1	-
HP-16	2 TONS	208	1	15	25	TRANE	TEM6A0B24H21SC	AHU-16	HORZ	5.7	208	1	38	40	TRANE	TEM60B024	800	70	0.7	15	YES	NO	2	-
HP-17	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-17	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	100	0.7	15	NO	YES	1	-
HP-18	1½ TONS	208	1	15	25	TRANE	4TWR4018N	AHU-18	HORZ	3.8	208	1	24	25	TRANE	TEM6A0B24H	600	50	0.7	15	NO	YES	1	-
HP-19	3½ TONS	208	1	24	40	TRANE	4TWR4042N	AHU-19	HORZ	7.2	208	1	49	50	TRANE	TEM6A0C42H	1,400	100	0.7	15	NO	YES	1	-
HP-20	2 TONS	208	1	15	25	TRANE	4TWR4024N	AHU-20	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B24H	775	100	0.7	15	NO	YES	1	-
HP-21	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-21	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	50	0.7	15	NO	YES	1	-
HP-22	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-22	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	50	0.7	15	NO	YES	1	-
HP-23	2½ TONS	208	1	15	25	TRANE	4TWR4030N	AHU-23	HORZ	5.7	208	1	38	40	TRANE	TEM6A0B30H	1,000	100	0.7	15	NO	YES	1	-
HP-24	3½ TONS	208	1	24	40	TRANE	4TWR4042N	AHU-24	HORZ	7.2	208	1	49	50	TRANE	TEM6A0C42H	1,300	0	0.7	15	NO	YES	1	-

- NOTES A/C UNITS:**
- PROVIDE EMERGENCY SHUTDOWN SWITCHES AND PROGRAMMABLE THERMOSTATS. THERMOSTATS SHALL HAVE PASSCODE PROTECTION SO SETTINGS CANNOT BE TAMPERED WITHOUT ENTERING A REPROGRAMMABLE CODE. PROVIDE A PERMANENT PLACARD NEAR EACH THERMOSTAT(S) SHOWING THE LOCAL BUILDING FLOOR PLAN, THE AREAS THAT EACH THERMOSTAT CONTROLS AND THE LOCATION OF EACH THERMOSTATS SWITCH IF THE SWITCH IS REMOTELY LOCATED.
 - PROVIDE 4" DP-013EN (MERV-13) FILTERS BY AIRGUARD AND FILTER RACKS AT UNITS. PROVIDE SMOOTH TRANSITION FROM FILTER RACK TO AHU INTAKE AND TO RETURN DUCT SHOWN ON PLANS. THE MINIMUM FILTER SIZES SHALL BE 24"x24" FOR 3 TON AND SMALLER AHU'S, 24"x36" FOR 3½ 4 AND 5 TON AHU'S. MAX INITIAL PRESSURE DROP SHALL BE 0", 1" OR LESS OF WATER COLUMN. SEE DETAIL D/M2. THE FILTER RACKS SHALL HAVE A MANOMETER OR DIFFERENTIAL PRESSURE SENSING DEVICE THAT SHALL MEASURE THE DIFFERENTIAL STATIC PRESSURE ACROSS THE FILTER AND INDICATE WHEN THE FILTER NEEDS REPLACING.
 - ROUTE PRIMARY CONDENSATE TO FRENCH DRAINS. PROVIDE DRIP PANS WITH FLOAT SWITCHES.
 - PROVIDE CONCRETE PAD FOR COMPRESSORS AND ANCHOR COMPRESSORS TO PADS.
 - PROVIDE FRENCH DRAINS FOR CONDENSATE LINES (SEE FRENCH DRAIN DETAIL E/M2).
 - CONSULT WITH MANUFACTURER FOR THE CORRECT SIZING OF REFRIGERANT LINES. OVERSIZE REFRIGERANT LINE AS PER MFG. INSTRUCTIONS WHEN REQUIRED.
 - THE CONTRACTOR SHALL INSTRUCT THE OWNER TO KEEP AHU FANS RUNNING AT ALL TIMES UNLESS NOTED OTHERWISE.
 - ALL COMPRESSORS SHALL HAVE TIME DELAY RELAYS SET AT DIFFERENT STARTING TIMES.
 - FOR UNITS SHOWING A THERMOSTAT AND HUMIDISTAT ON THE PLANS, PROVIDE A THERMOSTAT/HUMIDISTAT AND A SIMPLE ENGINEERED SOLUTIONS HPDM-XX (VERIFY SPECIFIC MODEL FOR APPLICATION) CONTROL MODULE OR EQUAL. HUMIDISTAT SHALL ACTIVATE THE COOLING CYCLE UPON HIGH HUMIDITY CALL. THE THERMOSTAT SHALL BE CAPABLE OF OPERATING THE HEAT STRIPS FOR TEMPERATURE CONTROL WHILE A HIGH HUMIDITY CALL IS BEING MADE. CONSULT WITH EQUIPMENT MANUFACTURER FOR WIRING DIAGRAM.
 - PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL INDOOR AND OUTDOOR UNITS.
 - PROVIDE LOW AMBIENT CONTROLS FOR FREEZE PROTECTION.
 - PROVIDE CONTROLS THAT PREVENT AUXILIARY HEAT STRIPS FROM BEING ACTIVATED WHEN THE HEAT PUMP CAN HANDLE THE HEATING LOAD EXCEPT DURING DEFROST CYCLE AND DEHUMIDIFICATION CYCLE.
 - PROVIDE GRAVITY BACKDRAFT DAMPER OR MOTORIZED DAMPER FOR OUTDOOR AIR.
 - PROVIDE HUMIDISTAT. HUMIDISTAT SHALL ACTIVATE THE COOLING CYCLE UPON HIGH HUMIDITY CALL. THE THERMOSTAT SHALL BE CAPABLE OF OPERATING THE HEAT STRIPS FOR TEMPERATURE CONTROL WHILE A HIGH HUMIDITY CALL IS BEING MADE. CONSULT WITH EQUIPMENT MANUFACTURER FOR WIRING DIAGRAM.
 - FOR AHU-1 & 2 PROVIDE ZONE CONTROL SYSTEM. SEE E/M2.

EQUALS CAN BE SUBMITTED FOR FANS, DUCT HEATERS & LOUVERS

FAN SCHEDULE

SYMBOL	DESCRIPTION	CFM	SP	SET CFM	VOLT	PHASE	HP	AMPS	MOUNTING	MFG.	MODEL	REMARKS
F-1	IN LINE FAN	1,013	1/4	800	120	1			ATTIC	GREENHECK	CSP-A105B	NOTE 1, 3

- FAN NOTES:**
- PROVIDE BACKDRAFT DAMPER.
 - FOR FAN 2, PROVIDE THERMOSTAT CONTROL.
 - PROVIDE VARIABLE SPEED CONTROL.

PACKAGE TERMINAL HEAT PUMP/AC SCHEDULE

SYMBOL	COOLING CAP	VOLT	PHASE	MCA	STRIP	BREAKER	FRESH AIR	MFG.	MODEL	EER	REMARKS
TW-1	9,700 BTU/HR	208	1	17	2.78	20/2	0 CFM	GE	AZ65H090AB	11.6	-
TW-2	14,400 BTU/HR	208	1	18	2.78	20/2	0 CFM	GE	AZ65H140AB	11.6	-

- NOTES:**
- PROVIDE ARCHITECTURAL GRILLE.
 - PROVIDE CORROSION RESISTANT CASE.
 - PROVIDE CORD AND PLUG.
 - SET UNIT TO RUN WHEN HEATING OR COOLING IS CALLED FOR.
 - PROVIDE TW-1 IN STORAGE/SHOP REMOTE BUILDING.

DUCT HEATER SCHEDULE

SYMBOL	DESCRIPTION	CFM	KW	VOLT	PHASE	THERMOSTAT	MFG.	MODEL	DUCT AT HEATER	REMARKS
DH-1	DUCT HEATER	200	4	208	1	YES	MARKEL	SCR	NOTE 6	-
DH-2	DUCT HEATER	100	2	208	1	YES	MARKEL	SCR	NOTE 6	-
DH-3	DUCT HEATER	100	2	208	1	YES	MARKEL	SCR	NOTE 6	-
DH-4	DUCT HEATER	200	4	208	1	YES	MARKEL	SCR	NOTE 6	-

- NOTES:**
- PROVIDE AUTOMATIC RESET THAT LIMITS OUTLET TEMPERATURE TO MANUFACTURER'S REQUIRED SETTING OR LESS.
 - ELECTRIC HEATER ELEMENTS SHALL BE EQUIPPED WITH FUSIBLE LINKS OR MANUAL RESET TEMPERATURE CONTROL TO MAINTAIN OUTLET TEMPERATURE TO MANUFACTURER'S REQUIRED SETTING.
 - HEATER SHALL BE LISTED AND BEAR THE MARK OF AN APPROVED TESTING AGENCY.
 - PROGRAM THERMOSTAT TO ACTIVATE THE AHU.
 - PROVIDE FLOW SWITCH - SWITCH SHALL NOT BE SET ABOVE 30X OF OPERATING CFM.
 - DUCT SIZE AT HEATER SHALL BE SUCH THAT MANUFACTURER RECOMMENDED VELOCITY AT HEATER IS ACHIEVED. CONSULT MANUFACTURER FOR SIZING.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	SUPPLY GRILLE
	RETURN GRILLE
	THERMOSTAT
	HUMIDISTAT
	COMBINATION THERMOSTAT AND HUMIDISTAT
	THERMOSTAT FOR ZONE DAMPER
	AUTOMATIC ZONE DAMPER
	RECTANGULAR DUCT - 20" WIDE INSIDE A/C SYSTEM - 10" HIGH INSIDE
	TURNING VANES
	RIGID ROUND DUCT - 10" I.D.
	FLEX DUCT - 10" I.D.
	REGISTER CFM
	BALANCING DAMPER
	REDUCER
	IN LINE VENT FAN
	DISCHARGE CAP. SET BELOW ROOF RIDGE (SEE ARCH FOR LOCATION)
	INTAKE CAP. SET BELOW ROOF RIDGE (SEE ARCH FOR LOCATION)
	ALUMINUM WEATHER CAP WITH BACKDRAFT DAMPER
	1½ HOUR STATIC FIRE DAMPER
	FIRE SMOKE DAMPER - 1½ HR
	FIRE SMOKE DAMPER - 2 HR
	SMOKE DAMPER
	DUCT DETECTOR - PROVIDE ACCESS
	EMERGENCY SHUTOFF FOR AHU IN WING
	EMERGENCY SHUTOFF FOR INDIVIDUAL THERMOSTAT
	EMERGENCY SHUTOFF FOR DOAS UNITS IN AREA
	EMERGENCY SHUTOFF FOR INDIVIDUAL DOAS UNIT
	PRESSURE SENSOR
	VENTILATION DUCT
	FRESH AIR DUCT
	RANGE HOOD DUCT
	CONDENSATE LINE
	DOAS SUPPLY DUCT
	DRYER DUCT
	DOAS RETURN DUCT

LOUVER SCHEDULE

SYMBOL	DESCRIPTION	SIZE WxH	RAIN	BACKDRAFT DAMPER	SCREEN	MATERIAL	PAINT	MANUFACTURER	MODEL	REMARKS
L-1	4" INTAKE RAIN LOUVER	18x18	YES	YES	BIRD	ALUMINUM	MATCH BLDG	RUSKIN	ELF375DX	-
L-2	4" INTAKE RAIN LOUVER	18x24	YES	NO	BIRD	ALUMINUM	MATCH BLDG	RUSKIN	ELF375DX	SET WITHIN 12" OF THE CEILING
L-3	4" INTAKE RAIN LOUVER	18x24	YES	NO	BIRD	ALUMINUM	MATCH BLDG	RUSKIN	ELF375DX	SET WITHIN 12" OF THE FLOOR

LIBERTY COMMONS COMPLIANCE SCHEDULE - MECHANICAL

METHOD OF COMPLIANCE	PRESCRIPTIVE
ENERGY COST BUDGET	
THERMAL ZONE	4A
EXTERIOR DESIGN CONDITIONS	WINTER DRY BULB 24°F SUMMER DRY BULB 92.3°F
INTERIOR DESIGN CONDITIONS	WINTER DRY BULB 75°F SUMMER DRY BULB 75°F RELATIVE HUMIDITY 50% - 60%
BUILDING HEATING LOAD	BTUH
BUILDING COOLING LOAD	BTUH
MECHANICAL SPACING CONDITIONING SYSTEM	
UNITARY	
DESCRIPTION OF UNIT - HEATING EFFICIENCY - COOLING EFFICIENCY - HEAT OUTPUT OF UNIT - COOLING OUTPUT OF UNIT -	SEE EQUIPMENT SCHEDULE
BOILER	
TOTAL BOILER OUTPUT (IF OVERSIZED STATE REASON)	N/A
CHILLER	
TOTAL CHILLER CAPACITY	N/A
LIST EQUIPMENT EFFICIENCIES	SEE EQUIPMENT SCHEDULE
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEM)	
MOTOR HORSEPOWER	N/A
NUMBER OF PHASES	N/A
MINIMUM EFFICIENCY	N/A
MOTOR TYPE	N/A
# OF POLES	N/A
DESIGNER STATEMENT	
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE.	
SIGNED:	<i>David B. Sims</i>
NAME:	DAVID B. SIMS JR., PE.
TITLE:	ENGINEER

GENERAL NOTES:

- ALL FRESH AIR MAKE-UP ROOF PENETRATIONS SHALL PENETRATE ROOF AT SAME DISTANCE FROM EAVE & SHALL BE 25" Ø MIN. FROM ANY PLUMBING VENTS/ EXHAUST FANS. SHALL BE A MIN. 6" ABOVE GRADE & SHALL BE A MIN. OF 3' ABOVE ROOF DECK. MECHANICAL CONTRACTOR SHALL COORDINATE THE PLUMBING CONTRACTOR TO LOCATE VENT PIPE LOCATIONS.
- ALL VENT DISCHARGE ROOF PENETRATION SHALL PENETRATE ROOF AT SAME DISTANCE FROM EAVE AND SHALL MATCH THE FRESH AIR INTAKE WEATHER CAP HEIGHT FOR APPEARANCE. ALL VENT DISCHARGES OPENINGS SHALL BE A MIN. OF 10' HORIZONTALLY FROM OPERABLE DOORS & WINDOWS.
- MOUNT ALL THERMOSTATS AT 4'0" AFF MAX.
- ROOMS WITH SUPPLY REGISTERS & NO VENT OR RETURN OR VENT REGISTERS & NO SUPPLY SHALL HAVE DOORS UNDERCUT BY 3/4" OR MAX. AMOUNT ALLOWED BY DOOR MFG. WHICH MAINTAINS UL RATING.
- OVERSIZED REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS FOR LONG RUNS OR AS SHOWN ON THE PLANS.
- PROVIDE POWER CONNECTION FOR CONDENSATE PUMPS AS REQUIRED.
- RADIATION FIRE DAMPERS & SMOKE DAMPERS SHALL BE U.L. APPROVED FOR INSTALLATION IN SHEETROCK CEILINGS & WALLS. DAMPERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS FOLLOWING THEIR SCHEMATIC DRAWINGS. INSTALLATION INSTRUCTIONS SHALL BE GIVEN TO THE ENGINEER & STATE INSPECTOR AT THE FINAL INSPECTION.
- PAINT ALL FRESH AIR INTAKE CAPS THE SAME COLOR AS THE ROOF. CONTRACTOR SHALL SUBMIT CUT SHEET OF INTAKES TO THE ENGINEER FOR APPROVAL. PROVIDE LOW PROFILE INTAKE CAPS.
- MAXIMUM FLEX DUCT RUNS SHALL BE 14'0" MAXIMUM.
- CONTRACTOR SHALL RUN ALL DUCTWORK ON OUTSIDE OF THE CATWALK.
- ALL DUCTWORK SHALL BE CLASS I MIN.
- DISCHARGE CONDENSATE TO INDIRECT DISCHARGE.
- AHU SMOKE DETECTOR SYSTEM IS PROVIDED BY A FULL COVERAGE SMOKE DETECTION SYSTEM PER NFPA72E. SEE FIRE ALARM SHEET IN THE ELECTRICAL PACKAGE. ALL SMOKE DETECTORS SHALL BE NO CLOSER THAN 3'-0" TO A SUPPLY OR RETURN GRILLE. ALL AHU'S WILL SHUTDOWN UPON GENERAL ALARM.
- PLACE NURSE STATION & PATIENT AREA EMERGENCY SHUT-OFF SWITCHES AT NURSE'S STATION. VERIFY LOCATION.
- RESIDENT ROOMS HEATING AND AIR CONDITIONING SHALL OPERATE ON EMERGENCY POWER. COORDINATE WITH ELECTRICAL CONTRACTOR FOR STARTUP

FRESH AIR MAKE UP UNIT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	ELECTRIC			S. P.	SUPPLY	RETURN	WINTER OUTSIDE AIR		WINTER COND AIR		SUMMER OUTSIDE AIR		SUMMER COND AIR		LA SUMMER		LA WINTER		COMP	TOTAL COOLING CAP	TOTAL HEATING CAP	SHIPPING WEIGHT	REMARKS	
				VOLT	PHASE	MCA				BREAKER	TEMP	RH	TEMP	RH	TEMP	WB	TEMP	WB	TEMP	WB	TEMP						WB
DOAS-1-34	100% FRESH AIR MAKE UP	ALPHA AIRE	AAH100G1ASTA3	208	1Ø	10.4	15/2	1"	425 CFM	425 CFM	15° F	80%	70° F	42%	93.2° F	80.8° F	77° F	65.3° F	78.2° F	61.9° F	77.6° F	59.6° F	0.75 TON	31,900	40,000	750 LBS.	-

NOTES:

1. PROVIDE MERV-13 FILTER 12"x24" RACK.
2. COORDINATE WITH GC TO ENLARGE ATTIC ACCESS PORT TO ALLOW A 28"x30" UNIT.
3. PROVIDE CONDENSATE PIPING OR CONDENSATE PUMP.
4. AIR BALANCE FOR DOAS UNITS MUST BE ±5% MAXIMUM.
5. PROVIDE MEANS TO BALANCE AIR AT UNIT.

SPLIT SYSTEM VARIABLE REFRIGERANT FLOW UNIT SCHEDULE

COMPRESSOR										AIR HANDLING UNIT										
SYMBOL	COOLING CAPACITY (TONS)	ELECTRIC				MFG.	MODEL	SYMBOL	TYPE	ELECTRIC				MFG.	MODEL	FAN CFM	FRESH AIR INTAKE (CFM)	ESP (1IN OF H2O) VERT/H.R.	SEER	REMARKS
		VOLT	PHASE	MCA	FUSE					VOLT	PHASE	MCA	MOCP							
VHP-1	1½ TONS	208	1Ø	14	25/2	MITSUBISHI	NTXSKS18A112AA	VAHU-1	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT18A112AA	400	50	0.5	18	-
VHP-2	1 TONS	208	1Ø	10	25/2	MITSUBISHI	NTXSKS12A112AA	VAHU-2	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT12A112AA	400	50	0.5	18	-
VHP-3	1½ TONS	208	1Ø	14	25/2	MITSUBISHI	NTXSKS18A112AA	VAHU-3	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT18A112AA	425	50	0.5	18	-
VHP-4	1½ TONS	208	1Ø	14	25/2	MITSUBISHI	NTXSKS18A112AA	VAHU-4	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT18A112AA	500	50	0.5	18	-
VHP-5	1½ TONS	208	1Ø	14	25/2	MITSUBISHI	NTXSKS18A112AA	VAHU-5	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT18A112AA	500	50	0.5	18	-
VHP-6	1½ TONS	208	1Ø	14	25/2	MITSUBISHI	NTXSKS18A112AA	VAHU-6	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT18A112AA	500	50	0.5	18	-
VHP-7	1 TONS	208	1Ø	10	25/2	MITSUBISHI	NTXSKS12A112AA	VAHU-7	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT12A112AA	350	50	0.5	18	-
VHP-8	1 TONS	208	1Ø	10	25/2	MITSUBISHI	NTXSKS12A112AA	VAHU-8	HORIZ.	208	1Ø	3	15/2	MITSUBISHI	NTXAMT12A112AA	350	50	0.5	18	-

NOTES A/C UNITS:

1. PROVIDE CONCRETE PAD FOR OUTDOOR UNITS.
2. COORDINATE WITH MANUFACTURER WITH MAX REFRIGERANT LINE.
3. PROVIDE THERMOSTAT.
4. AIR HANDLING UNIT POWER SHALL BE CONNECTED TO THE OUTDOOR UNIT.
5. PROVIDE 4" DP-G13EEN (MERV-13) FILTERS BY AIRGUARD AND FILTER RACKS AT UNITS. PROVIDE SMOOTH TRANSITION FROM FILTER RACK TO AHU INTAKE AND TO RETURN DUCT SHOWN ON PLANS. THE MINIMUM FILTER SIZES SHALL BE 24"x24" FOR 3 TON AND SMALLER AHU'S, 24"x36" FOR 3½, 4 AND 5 TON AHU'S. MAX INITIAL PRESSURE DROP SHALL BE 0", 1" OR LESS OF WATER COLUMN. SEE DETAIL D/M2. THE FILTER RACKS SHALL HAVE A MANOMETER OR DIFFERENTIAL PRESSURE SENSING DEVICE THAT SHALL MEASURE THE DIFFERENTIAL STATIC PRESSURE ACROSS THE FILTER AND INDICATE WHEN THE FILTER NEEDS REPLACING.

REGISTER SCHEDULE

SYMBOL	DESCRIPTION	NECK	RUN OUT	BALANCING DAMPER AT REGISTER	RADIATION DAMPER AT REGISTER	MATERIAL	COLOR	MFG.	MODEL	REMARKS
A	LOUVER FACED 4-WAY SUPPLY	6"x6"	6"Ø	YES	YES	STEEL	WHITE	PRICE	SMD	100 OR LESS
B	LOUVER FACED 4-WAY SUPPLY	6"x6"	7"Ø	YES	YES	STEEL	WHITE	PRICE	SMD	100 TO 150
C	LOUVER FACED 4-WAY SUPPLY	9"x9"	8"Ø	YES	YES	STEEL	WHITE	PRICE	SMD	150 TO 225
D	LOUVER FACED 4-WAY SUPPLY	9"x9"	9"Ø	YES	YES	STEEL	WHITE	PRICE	SMD	225 TO 300
E	LOUVER FACED 4-WAY SUPPLY	12"x12"	10"Ø	YES	YES	STEEL	WHITE	PRICE	SMD	300 TO 400
F	LOUVER FACED 4-WAY SUPPLY	12"x12"	12"Ø	YES	YES	STEEL	WHITE	PRICE	SMD	400+
G	PERFORATED SUPPLY	18"x18"	10"Ø	YES	YES	STEEL	WHITE	PRICE	PDR	USE RETURN GRILLE AS SUPPLY 300
RA	LOUVERED RETURN	8"x8"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	125 OR LESS
RB	LOUVERED RETURN	12"x12"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	125 TO 300
RC	LOUVERED RETURN	18"x18"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	300 TO 750
RD	LOUVERED RETURN	18"x24"	SEE DWG	YES	YES	STEEL	WHITE	PRICE	530	750+

DUCTLESS SPLIT SYSTEM UNIT SCHEDULE - I.T. ROOM (A/C ONLY)

COOLING CAP TONS	AIR HANDLER		OUTSIDE UNIT		MANUFACTURER	VOLT	PHASE	FUSE	SEER	HSPF	REMARKS
	SYMBOL	MODEL	SYMBOL	MODEL							
1 TON	DAHU-1	PKA-A12HA7	DC-1	PUY-A12NKA7	MITSUBISHI	208	1	15	20.8	10.2	STRAIGHT AIR
1 TON	DAHU-2	PKA-A12HA7	DC-2	PUY-A12NKA7	MITSUBISHI	208	1	15	20.8	10.2	STRAIGHT AIR
1 TON	DAHU-3	PKA-A12HA7	DC-3	PUY-A12NKA7	MITSUBISHI	208	1	15	20.8	10.2	STRAIGHT AIR

FRESH AIR MAKE UP UNIT NOTES:

1. PROVIDE CONDENSATE PUMP WITH PIPING TO OUTSIDE FRENCH DRAIN.
2. PROVIDE THERMOSTAT.
3. PROVIDE CONCRETE PAD FOR OUTDOOR UNIT.

WALL HEATER SCHEDULE

SYMBOL	DESCRIPTION	KW	VOLT	PHASE	THERMOSTAT	MFG.	MODEL	REMARKS
EH-1	MECH EQ ROOM	2	208	1	MOUNT ON HEATER	Q-MARK	AWH4208	-
EH-2	LAUNDRY	2	208	1	MOUNT ON HEATER	Q-MARK	AWH4208	-

HEATER NOTES:

1. MAINTAIN WALL RATINGS AS NECESSARY.
2. VERIFY COLOR WITH OWNER.

AIR SCHEDULE

FUNCTION OF SPACE	PRESSURE RELATIONSHIP TO ADJACENT AREA	MINIMUM OUTDOOR ACH	MINIMUM TOTAL ACH	ALL ROOM AIR EXHAUSTED DIRECTLY TO OUTDOORS	AIR RECIRCULATED BY MEANS OF ROOM UNITS	DESIGN RELATIVE HUMIDITY%	DESIGN TEMPERATURE °F/°C
BATHING ROOM	NEGATIVE	NR	10	YES	NO	NR	70-75/21-24
OCCUPATIONAL THERAPY	NR	2	6	NR	NR	NR	70-75/21-24
PHYSICAL THERAPY	NEGATIVE	2	6	NR	NR	NR	70-75/21-24
RESIDENT/GATHERING /ACTIVITY/DINING	NR	4	4	NR	NR	NR	70-75/21-24
RESIDENT ROOM	NR	2	2	NR	NR	NR	70-75/21-24
RESIDENT UNIT COORIDOR	NR	NR	4	NR	NR	NR	NR

EQUALS CAN BE SUBMITTED FOR WALL MOUNTED HEATERS, ROOF MOUNTED GRAVITY VENTILATORS FOR EXHAUSTS & INTAKES, REGISTERS, RADIATION DAMPERS & FIRE DAMPERS

AIR SCHEDULE

FUNCTION OF SPACE	PRESSURE RELATIONSHIP TO ADJACENT AREA	MINIMUM OUTDOOR ACH	MINIMUM TOTAL ACH	ALL ROOM AIR EXHAUSTED DIRECTLY TO OUTDOORS	AIR RECIRCULATED BY MEANS OF ROOM UNITS	DESIGN RELATIVE HUMIDITY%	DESIGN TEMPERATURE °F/°C
BATHING ROOM	NEGATIVE	NR	10	YES	NO	NR	70-75/21-24
OCCUPATIONAL THERAPY	NR	2	6	NR	NR	NR	70-75/21-24
PHYSICAL THERAPY	NEGATIVE	2	6	NR	NR	NR	70-75/21-24
RESIDENT/GATHERING /ACTIVITY/DINING	NR	4	4	NR	NR	NR	70-75/21-24
RESIDENT ROOM	NR	2	2	NR	NR	NR	70-75/21-24
RESIDENT UNIT COORIDOR	NR	NR	4	NR	NR	NR	NR

ROOF MOUNTED GRAVITY VENTILATOR - INTAKE

SYMBOL	TYPE	CFM	MFG.	SIZE	MODEL	MATERIAL	REMARKS
IC-1	INTAKE	950	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-2	INTAKE	800	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
IC-3	INTAKE	1,000	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-4	INTAKE	1,200	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
IC-5	INTAKE	1,900	GREENHECK	30"Ø	GRS-30	ALUMINUM	-
IC-6	INTAKE	2,200	GREENHECK	30"Ø	GRS-30	ALUMINUM	-
IC-7	INTAKE	820	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
IC-8	INTAKE	950	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-9	INTAKE	600	GREENHECK	16"Ø	GRS-16	ALUMINUM	-
IC-10	INTAKE	950	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-11	INTAKE	1,000	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-12	INTAKE	1,000	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-13	INTAKE	1,000	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-14	INTAKE	950	GREENHECK	20"Ø	GRS-20	ALUMINUM	-
IC-15	INTAKE	1,500	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
IC-16	INTAKE	600	GREENHECK	16"Ø	GRS-16	ALUMINUM	-
IC-17	INTAKE	650	GREENHECK	16"Ø	GRS-16	ALUMINUM	-
IC-18	INTAKE	1,000	GREENHECK	20"Ø	GRS-20	ALUMINUM	-

GRAVITY VENTILATOR NOTES:

1. PROVIDE ROOF CURB.
2. FOLLOW ALL GENERAL NOTES ON SHEET M1.
3. FOR ALL VENTILATORS, DROP INTO ATTIC WITH SIZE AS INDICATED.
4. FOR ALL INTAKE VENTILATORS, MOUNT INTAKE 37" FROM ROOF DECK.

ROOF MOUNTED GRAVITY VENTILATOR - EXHAUST

SYMBOL	TYPE	CFM	MFG.	SIZE	MODEL	MATERIAL	REMARKS
DC-1	EXHAUST	1,430	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
DC-2	EXHAUST	450	GREENHECK	15"Ø	GRS-15	ALUMINUM	-
DC-3	EXHAUST	950	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-4	EXHAUST	950	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-5	EXHAUST	1,350	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
DC-6	EXHAUST	950	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-7	EXHAUST	950	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-8	EXHAUST	960	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-9	EXHAUST	1,250	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
DC-10	EXHAUST	1,350	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
DC-11	EXHAUST	900	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-12	EXHAUST	900	GREENHECK	18"Ø	GRS-18	ALUMINUM	-
DC-13	EXHAUST	1,350	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
DC-14	EXHAUST	1,350	GREENHECK	24"Ø	GRS-24	ALUMINUM	-
DC-15	EXHAUST	950	GREENHECK	18"Ø	GRS-18	ALUMINUM	-

GRAVITY VENTILATOR NOTES:

1. PROVIDE ROOF CURB.
2. FOLLOW ALL GENERAL NOTES ON SHEET M1.
3. FOR ALL VENTILATORS, DROP INTO ATTIC WITH SIZE AS INDICATED.

DAVID SIMS & ASSOCIATES, P.C.
CONSULTING ENGINEERS
ARBORETUM CENTRE
108 GILES AVE., SUITE 100
WILMINGTON, NC 28403
910.791.8016
NC License: C-1150
www.dsaeng.com

1/21/25

LIBERTY COMMONS
OF BRIAR CHAPEL
Chatham County, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite 2-L, Wilmington, NC 28403
Architecture Planning Design

138 BED FACILITY

M2

symbol	date	description	by
REVISIONS			

CEILING RADIATION DAMPER



MODEL:
50EA (Rectangular)

APPLICATION
The CRD-50EA has been UL tested and labeled for protection of ceiling openings in fire rated floor/ceiling assemblies with fire resistance ratings of 3 hours or less. This product can also be applied to steel lay-in style ceiling diffusers up to 24 in. x 24 in. (610mm x 610mm) maximum size. The damper is UL fire rated Ceiling/Floor Assembly L-563 and Ceiling/Roof Assembly P-544.

RATING:
UL CLASSIFIED: UL 555C Fire Resistance Rating
Fire resistance rated 3 Hours
Building materials rated 3 Hours or less

Model CRD 50EA meets the requirements for fire dampers established by:
CSFM California State Fire Marshal
Fire Damper Listing #93225-1417:101

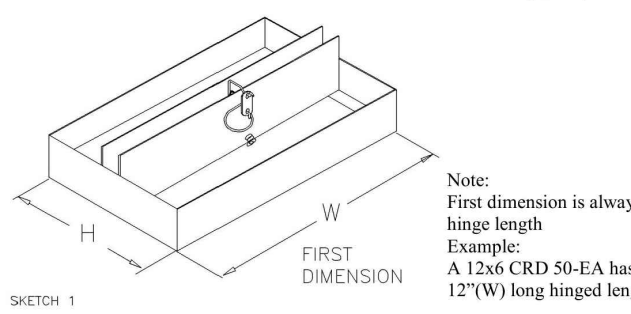
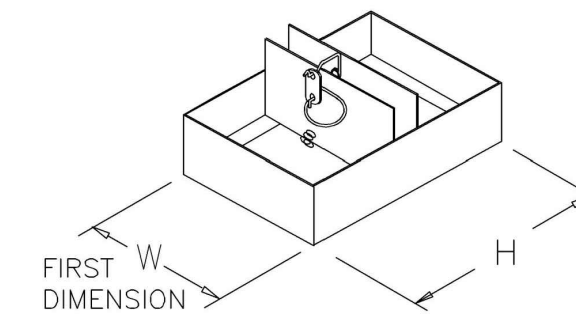
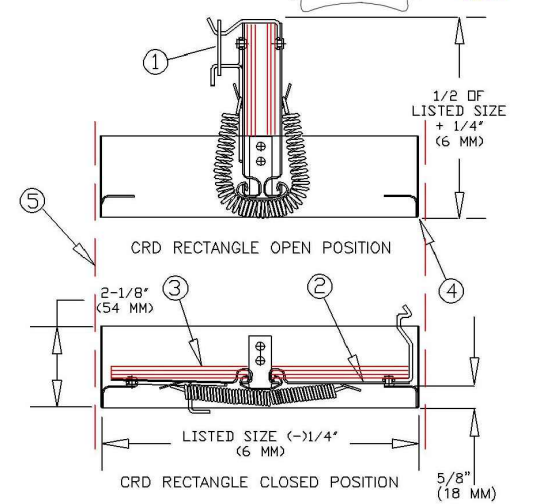


Standard Construction

- UL listed link (165°F Standard)
- Blades 22 (0.853mm) Ga. Galv. Steel
- Roll-formed frame 22 (0.853mm) ga. Galv. Steel
- Steel duct drop (by others).

Note:

- Maximum size 24"x24" (600mm x 600mm)
Minimum size 4"x6" (101mm x 152mm)
- Manufactured with blade opening as per sketch #1: when "W" equal to or greater than 6"
- Manufactured with blade opening as per sketch #2: when "W" is less than 6" and "H" is greater than "W".
- "Ceramic insulation is not UL required on dampers with areas less than 80 square inches and is optional. Dampers above 80 square inches will be provided with blade insulation.



211 Commerce Dr. Montgomeryville, PA 18936
Tel: 215-412-4445 Fax: 215-412-4409
Email: lloydind@firedamper.com

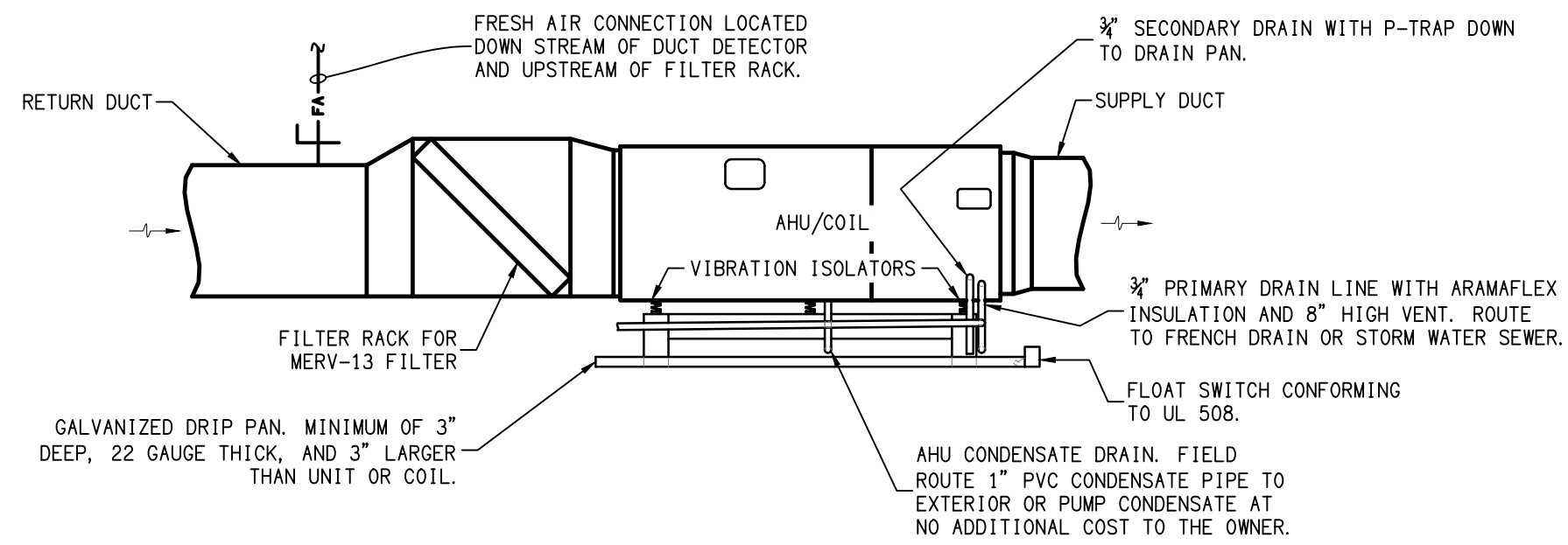
138 Industrial Loop West, Orange Park, FL 32073
Tel: 904-541-1655 Fax: 904-541-1657
Email: lloydind1@bellouth.com

B1, 4/F., Loen Ming Hong Factory Building
36 Mok Chung St.,
To Kwa Wan, Kowloon, H. K.
Tel: 852-2766-4188 Fax: 852-2766-4177
Email: tatanlexsim@lloydasia.com

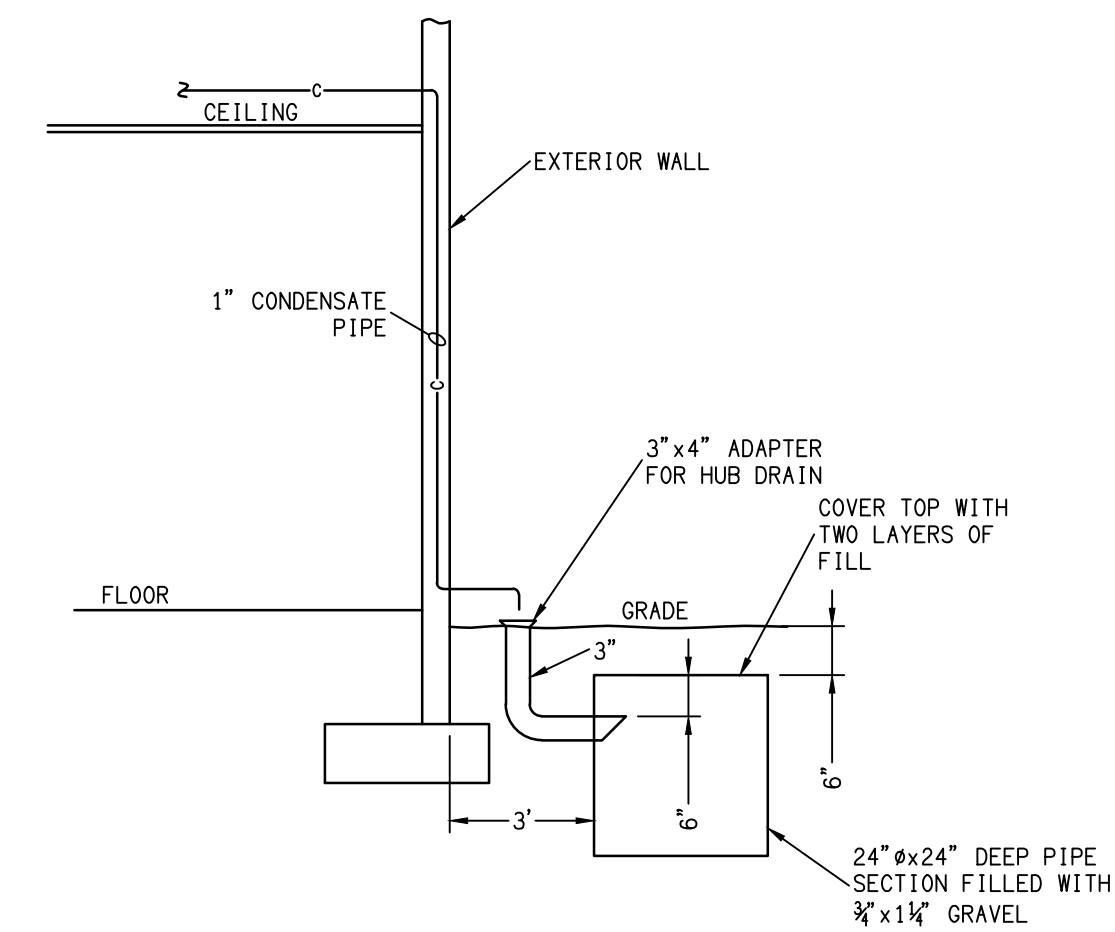
THE OPERATING TEMPERATURE OF THE CEILING RADIATION DAMPER ACTUATION DEVICE SHALL BE 50°F ABOVE THE NORMAL TEMPERATURE WITHIN THE DUCT SYSTEM, BUT NOT LESS THAN 160°F.

VERIFY WITH MANUFACTURER THE ACCEPTABILITY OF THIS PRODUCT WITH THE INSTALLATION AND APPLICATION PRIOR TO ORDERING. VERIFY THE MANUFACTURER HAS DOCUMENTATION AND THAT THE DAMPER CAN BE INSTALLED WITH ALUMINUM GRILLES/DIFFUSERS PRIOR TO ORDERING. INSTALLATION SHALL BE AS PER THE MANUFACTURERS RECOMMENDATIONS.

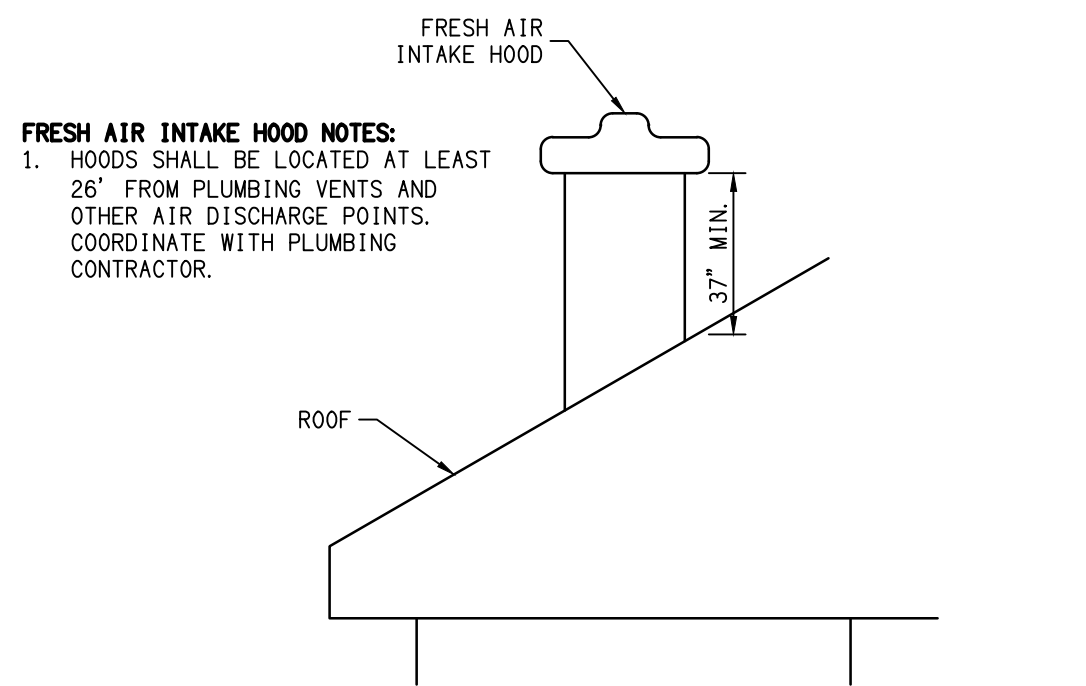
A RADIATION DAMPER DETAIL
SCALE: NTS
1 HR SHEETROCK CEILING



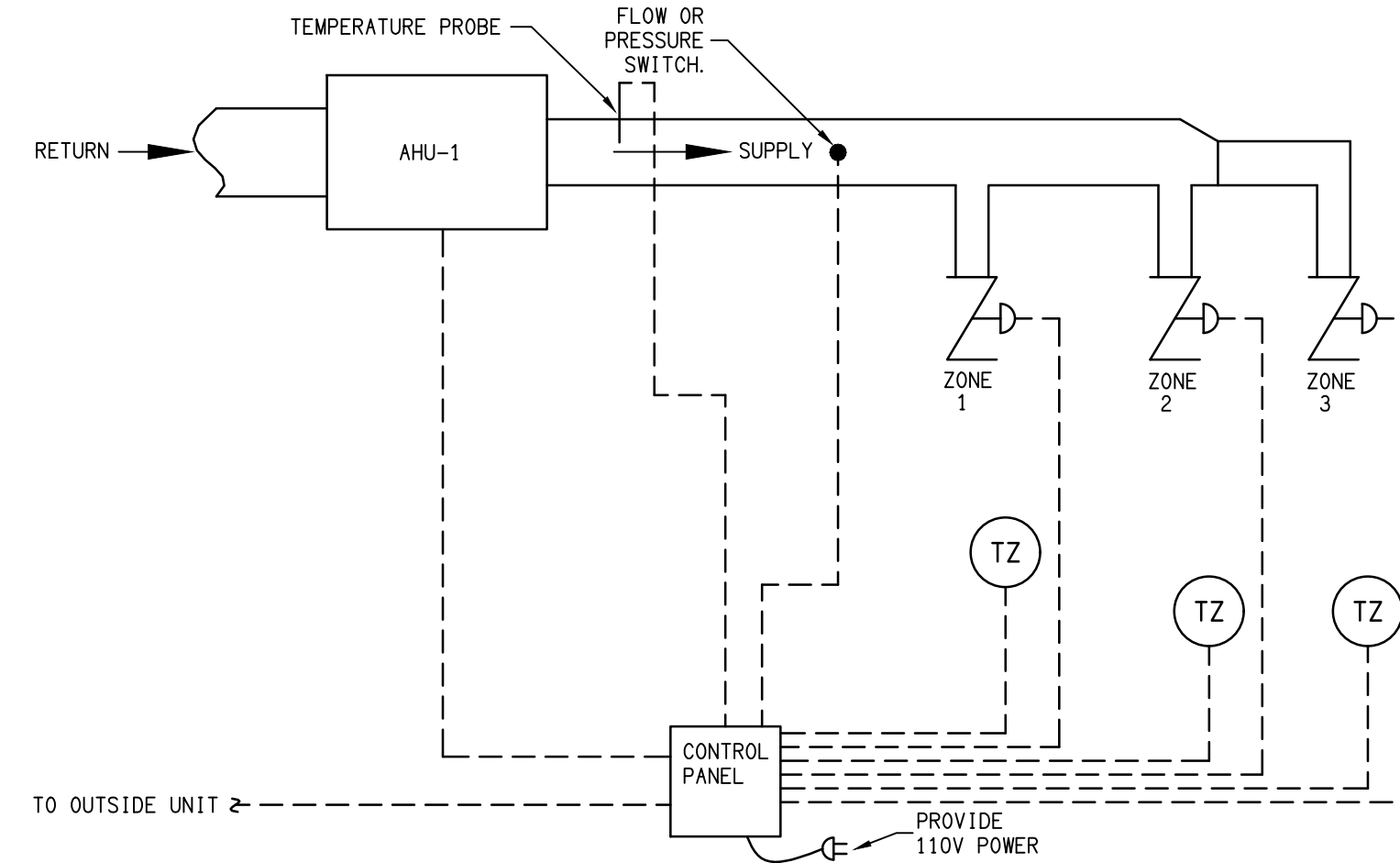
B AHU FILTER DETAIL
SCALE: NTS



C FRENCH DRAIN DETAIL
SCALE: NONE

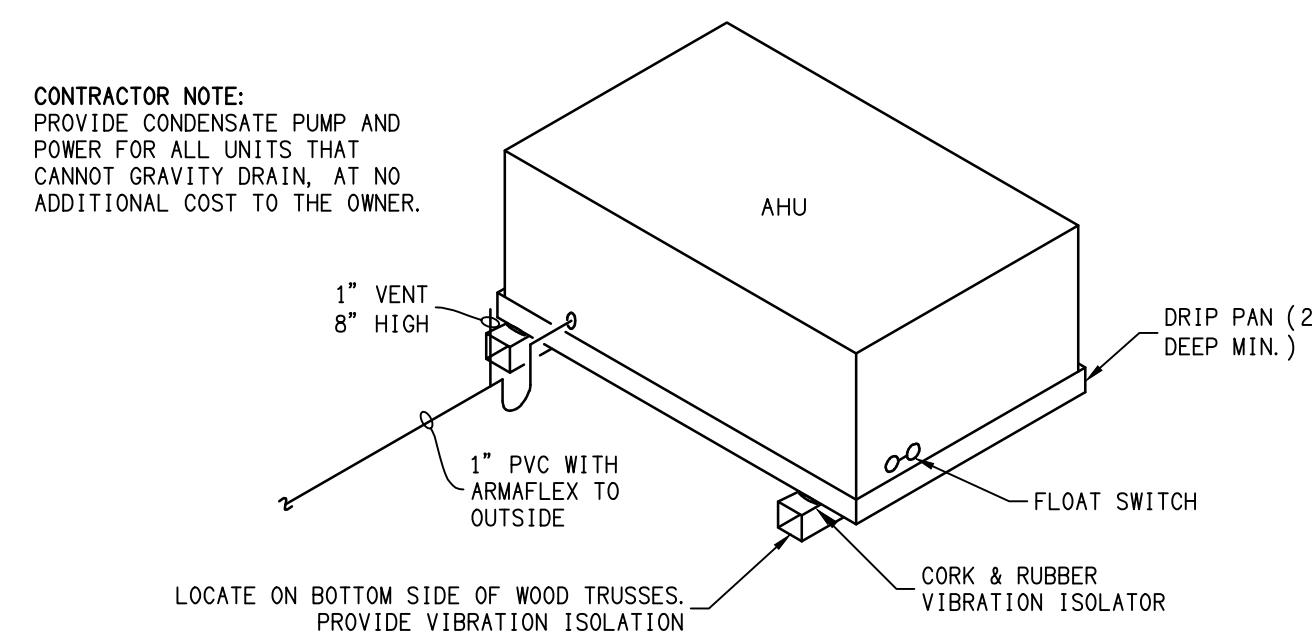


D FRESH AIR MAKEUP HOOD
SCALE: NONE

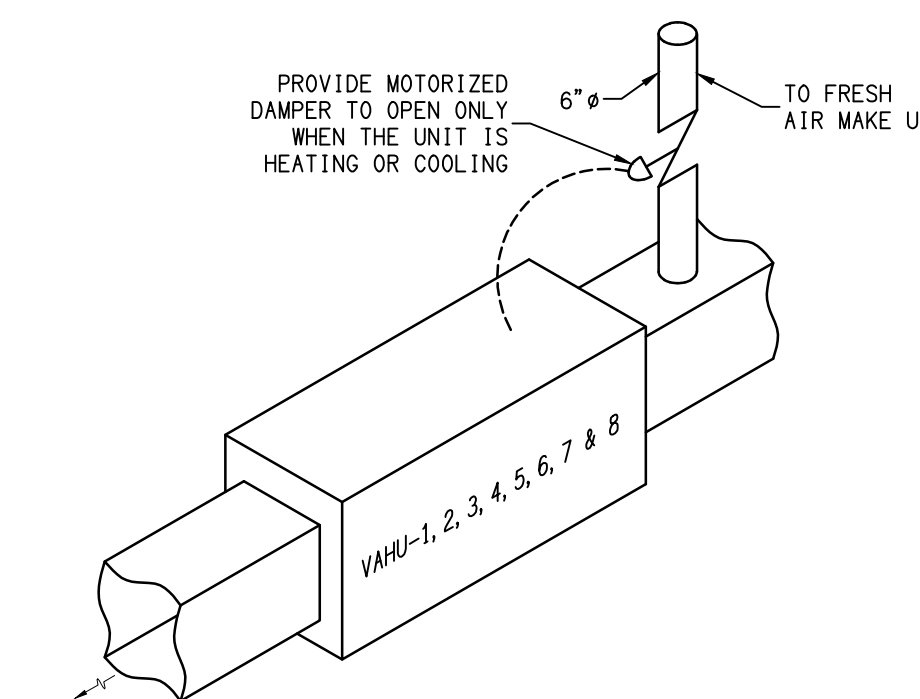


E ZONE CONTROL SYSTEM SCHEMATIC
N. T. S. (AHU-19)

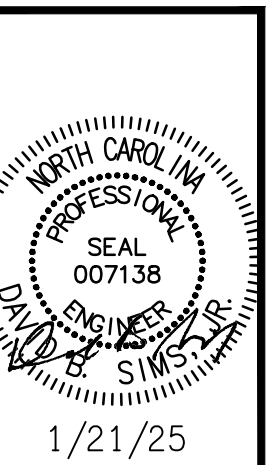
- ZONE CONTROLLER:**
- ZONE CONTROLLER SHALL INCLUDE FLASH BASED MICROPROCESSOR FOR AUTOMATIC CONTROL OF UP TO 4 ZONES MINIMUM ON A SINGLE HVAC SYSTEM.
 - CONTROLLER SHALL INCLUDE LED DISPLAY WITH FULL TEXT STATUS MONITORING AND DIAGNOSIS OF THE ENTIRE SYSTEM AND EQUIPMENT.
 - CONTROLLER SHALL CONTAIN ELECTRONIC LIMIT CONTROL (ELC) SUPPLY AIR SENSOR WHICH ALLOWS CONSTANT MONITORING OF THE LEAVING AIR TEMPERATURE ON THE LED DISPLAY, INCLUDING HIGH AND LOW TEMPERATURE LIMITS WHICH PROTECT HVAC EQUIPMENT AGAINST EXTREME HIGH AND LOW TEMPERATURE OPERATION. FRESH AIR OUTSIDE AIR CAPABILITY WITH ADDITIONAL SENSOR (OPTIONAL).
 - IN THE EVENT OF SUPPLY AIR SENSOR OR SENSOR WIRING FAILURE, THE CONTROLLER SHALL CONTINUE OPERATING THE HVAC SYSTEM AS A SINGLE ZONE SYSTEM WITHOUT INTERRUPTION.
 - PUSH BUTTONS SHALL ALLOW FOR DIGITAL ADJUSTMENT OF HIGH AND LOW LIMIT TEMPERATURES AND FOR HEAT PUMPS, THERMOSTAT TYPE SELECTION.
 - ON HEAT PUMPS SYSTEMS, EMERGENCY HEAT MUST BE INITIATED FROM THERMOSTAT #1 AND NOT A SWITCH ON THE ZONE CONTROL BOARD.
 - EACH ZONE CONTROLLER THERMOSTAT TERMINAL AND EQUIPMENT TERMINAL SHALL HAVE A COLOR-CODED LED ALLOWING FOR EASY MONITORING OF THERMOSTATS AND SYSTEM CALLS.
 - ROUND ZONE DAMPER MOTORS SHALL BE 2-POSITION DESIGN WITH A SOFT-EDGE DAMPER BLADE GASKET AND SHALL BE POWERED BY 24VAC POWER OPEN / POWER CLOSE MOTOR DEVELOPING 18 IN.-LB. OF TORQUE AT 2.5VA (MAX 4.0 VA). HOUSING SHALL BE GALVANIZED SPIRAL PIPE OF NO LESS THAN 24 GAUGE (4" THROUGH 10") AND 22 GAUGE (12" THROUGH 20").
 - RECTANGULAR ZONE DAMPER MOTORS SHALL BE 2-POSITION DESIGN WITH 6063T5 EXTRUDED ALUMINUM FRAME AND OPPOSED BLADES AND SHALL BE POWERED BY 24VAC POWER OPEN / POWER CLOSE MOTOR DEVELOPING 18 IN.-LB. OF TORQUE AT 2.5VA (MAX 4.0VA).
 - ALL ZONE DAMPERS SHALL INCLUDE ACCURATE, NON-ADJUSTABLE, BLADE POSITION INDICATOR AND ADJUSTABLE MINIMUM STOP CAPABILITY.
 - AUTOMATIC, ELECTRONIC BYPASS DAMPER WITH STATIC PRESSURE CONTROL IS REQUIRED UNLESS NOTED OTHERWISE.
 - ZONE CONTROLLER, DAMPER MOTORS AND THERMOSTATS SHALL BE POWERED WITH A SEPARATE 24V 40VA FUSED TRANSFORMER PROVIDED BY HVAC CONTRACTOR.
 - HVAC CONTRACTOR SHALL CONTACT COMFORT SOLUTIONS, INC. AT 910-452-0740 FOR PRE-INSTALLATION TRAINING AND FINAL INSPECTION UPON COMPLETION OF EACH PHASE OF CONSTRUCTION.



F HORIZONTAL AHU CONDENSATE PIPING
NOT TO SCALE (ATTIC UNITS)



G VAHU FRESH AIR MAKE UP
NOT TO SCALE



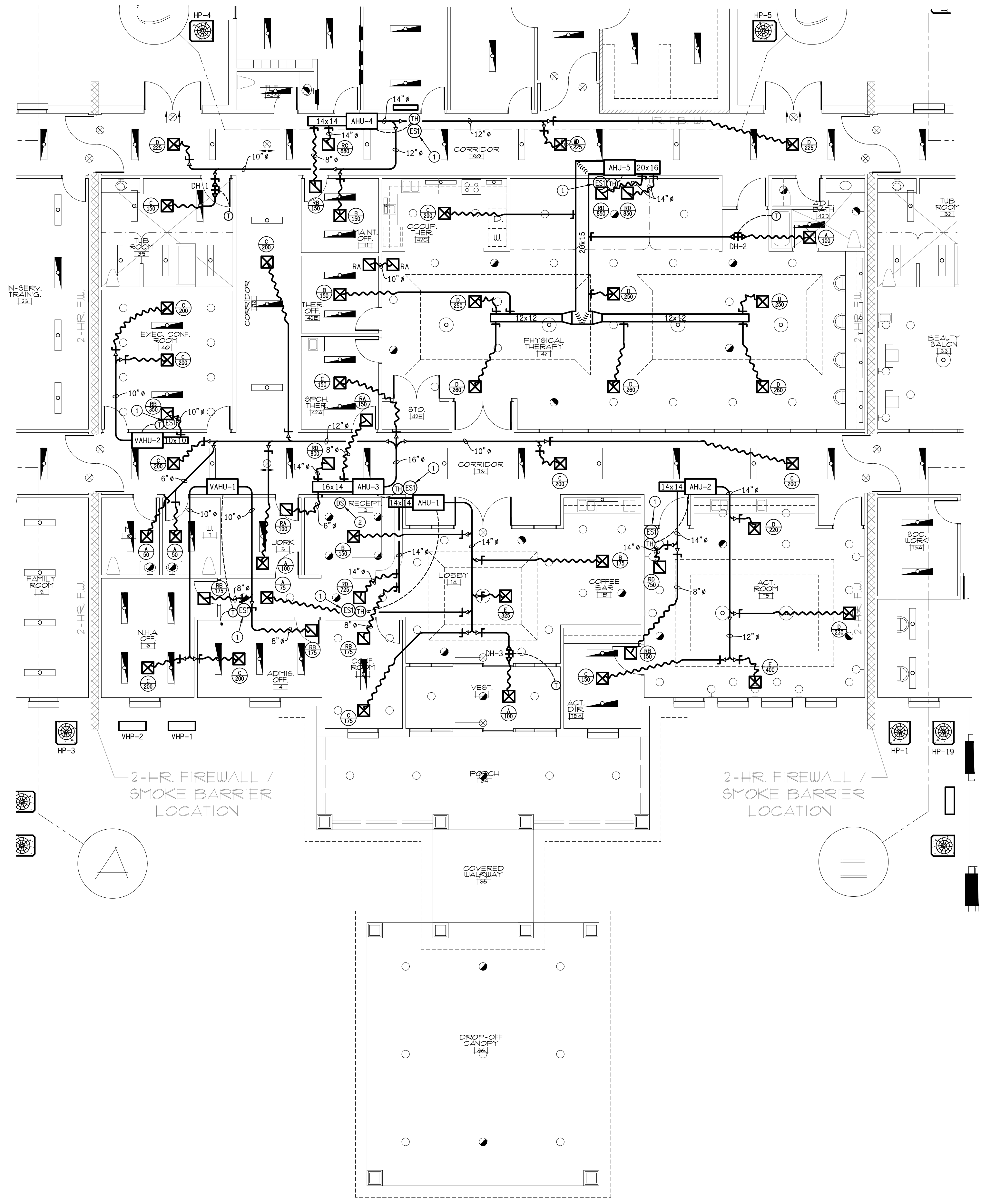
LIBERTY COMMONS
OF BRIAR CHAPEL
Chatham County, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite 2-L, Wilmington, NC 28403
Architecture Planning Design

138 BED FACILITY

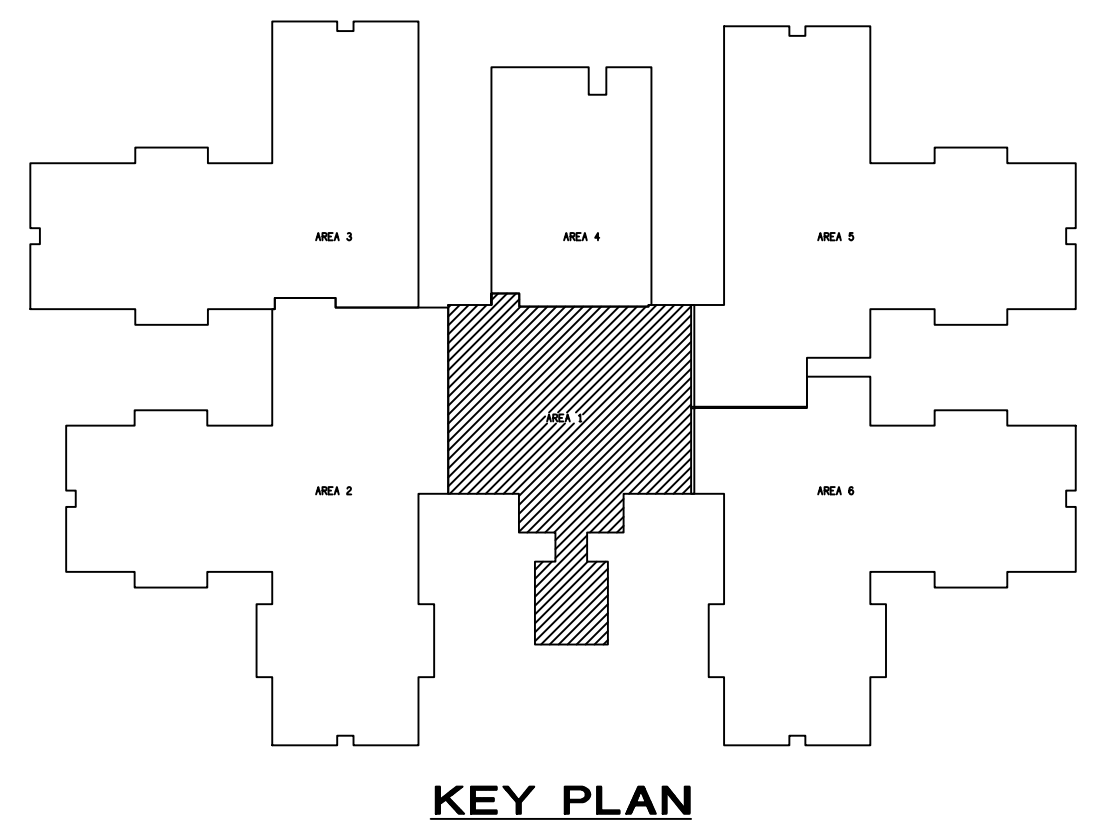
M3

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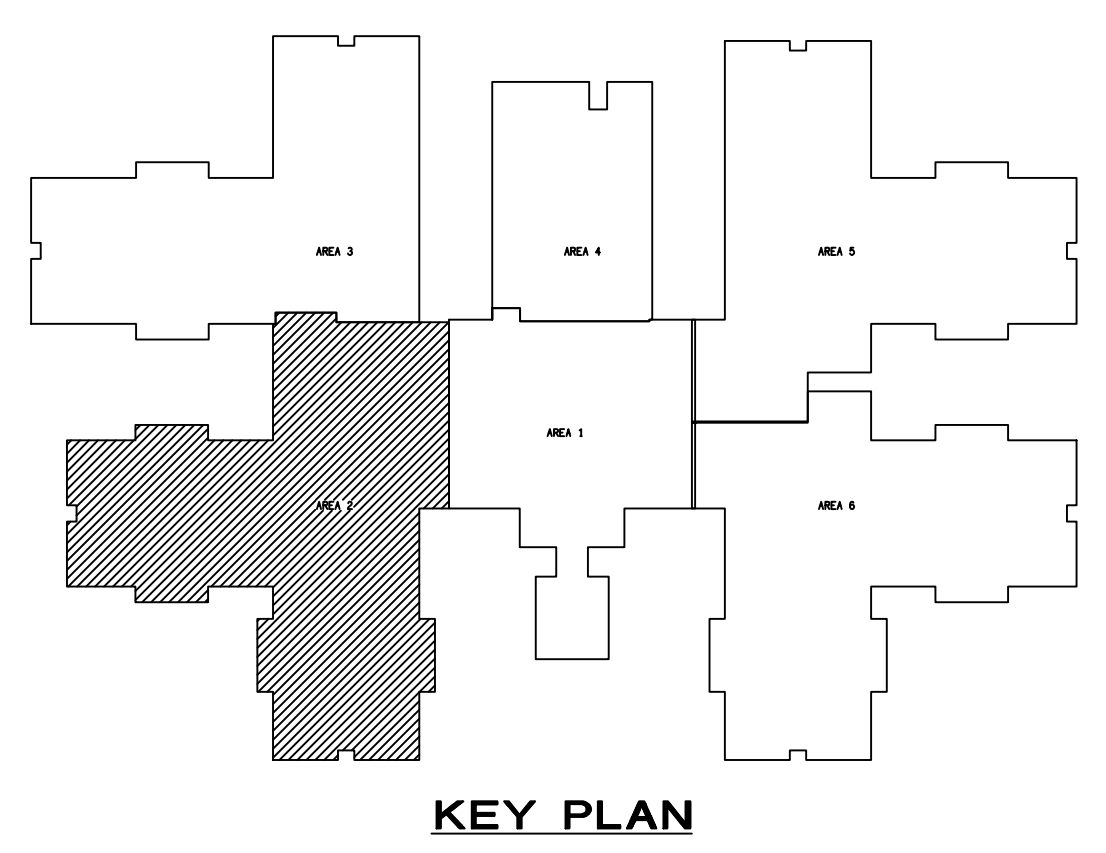
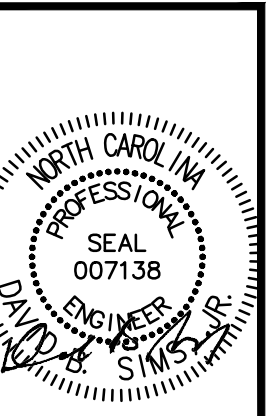
GENERAL NOTES:
1. VERIFY ALL EQUIPMENT LOCATIONS BEFORE UNITS ARE PLACED.

KEY NOTES
① PROVIDE EMERGENCY SHUTDOWN SWITCH FOR EACH AIR HANDLING UNIT.



A PARTIAL MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

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REVISIONS			

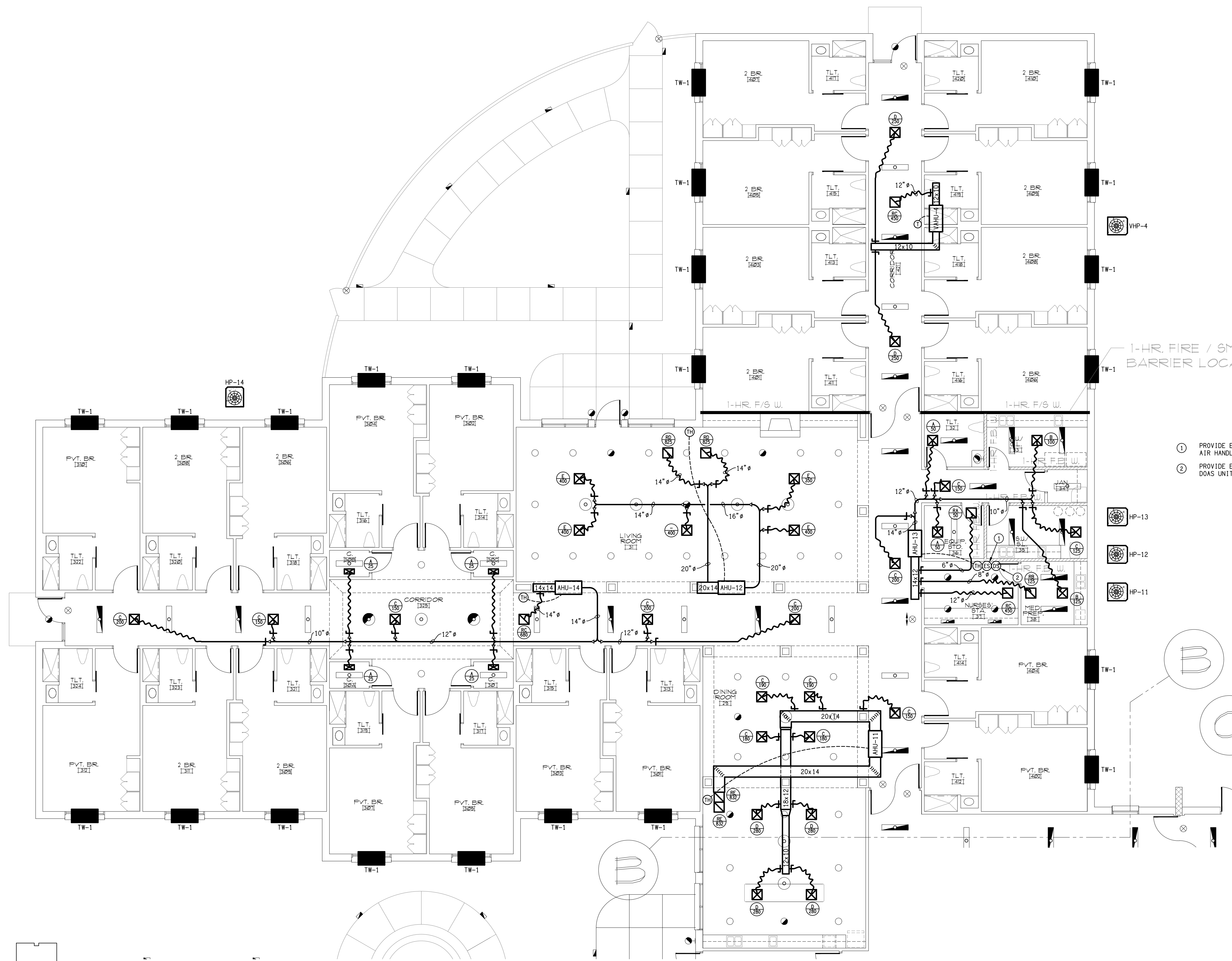


A PARTIAL MECHANICAL PLAN
M5 SCALE: 1/8" = 1'-0"

- KEY NOTES**
- 1 PROVIDE EMERGENCY SHUTDOWN SWITCH AT NURSE'S STATION THAT WILL SHUT DOWN ALL AIR HANDLING UNITS SHOWN ON THIS SHEET.
 - 2 PROVIDE EMERGENCY SHUTDOWN SWITCH AT NURSE'S STATION THAT WILL SHUT DOWN ALL DOAS UNITS SHOWN ON THIS SHEET.

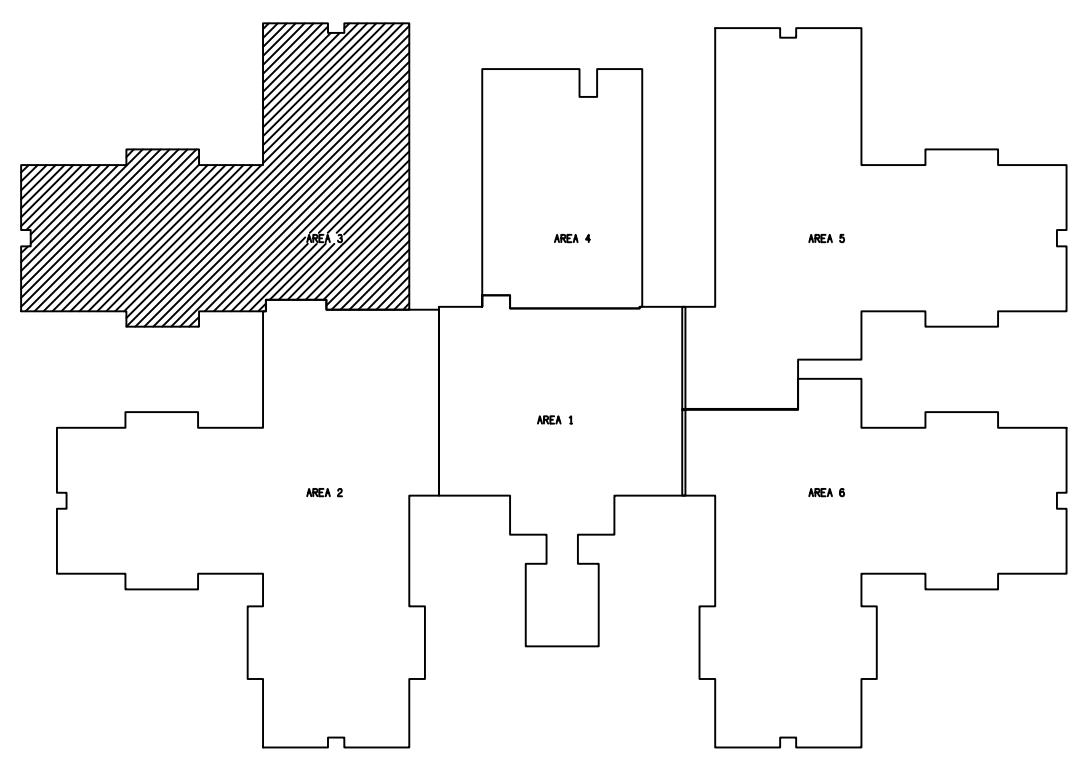
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KEY NOTES

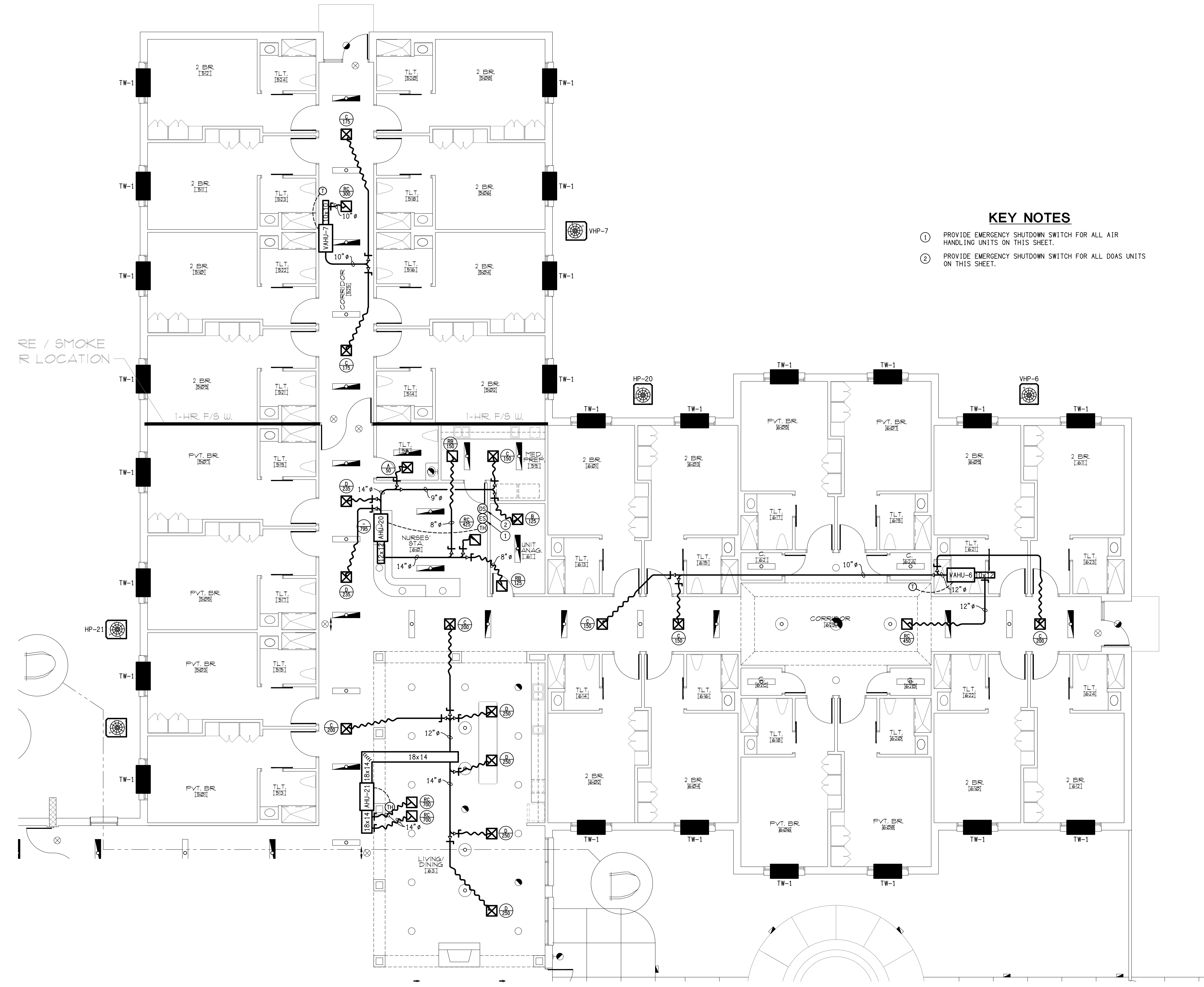
- ① PROVIDE EMERGENCY SHUTDOWN SWITCH THAT SHUTS DOWN ALL AIR HANDLING UNITS SHOWN ON THIS PLAN.
- ② PROVIDE EMERGENCY SHUTDOWN SWITCH THAT SHUTS DOWN ALL DOAS UNITS SHOWN ON THIS PLAN.



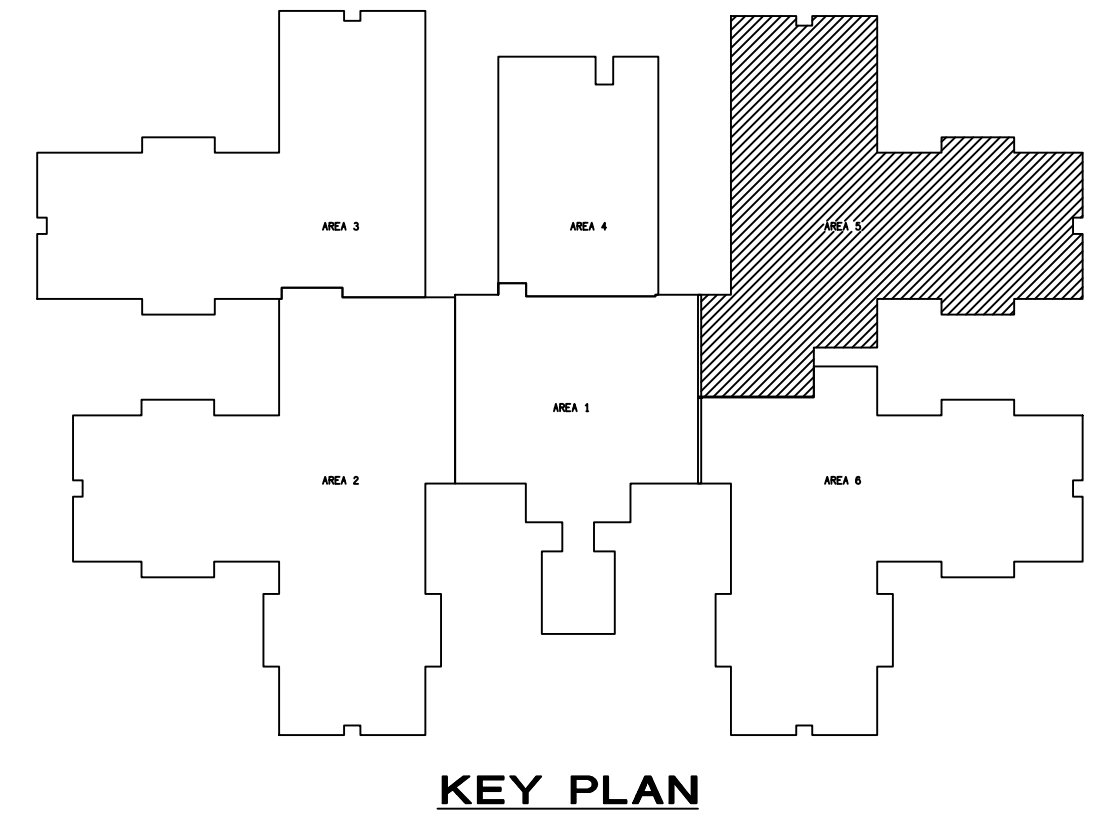
KEY PLAN

**A
M6** PARTIAL MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

symbol	date	description	by
REVISIONS			



- KEY NOTES**
- 1 PROVIDE EMERGENCY SHUTDOWN SWITCH FOR ALL AIR HANDLING UNITS ON THIS SHEET.
 - 2 PROVIDE EMERGENCY SHUTDOWN SWITCH FOR ALL DOAS UNITS ON THIS SHEET.

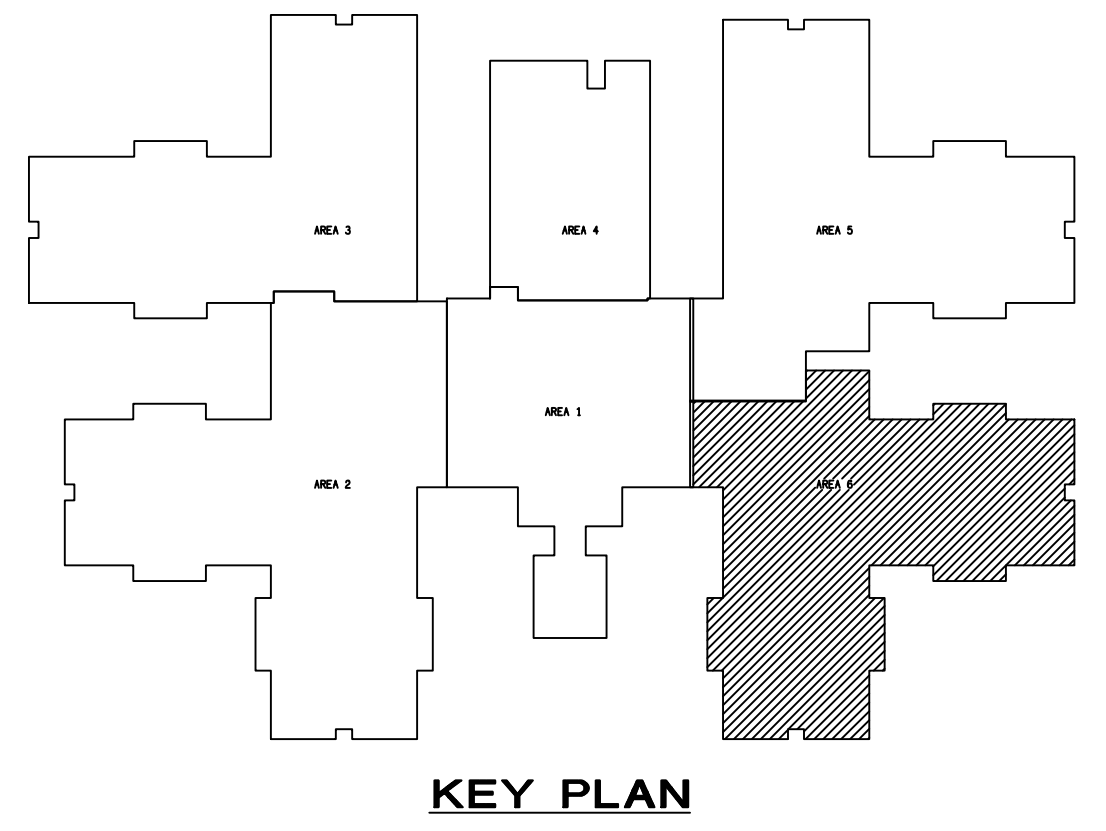
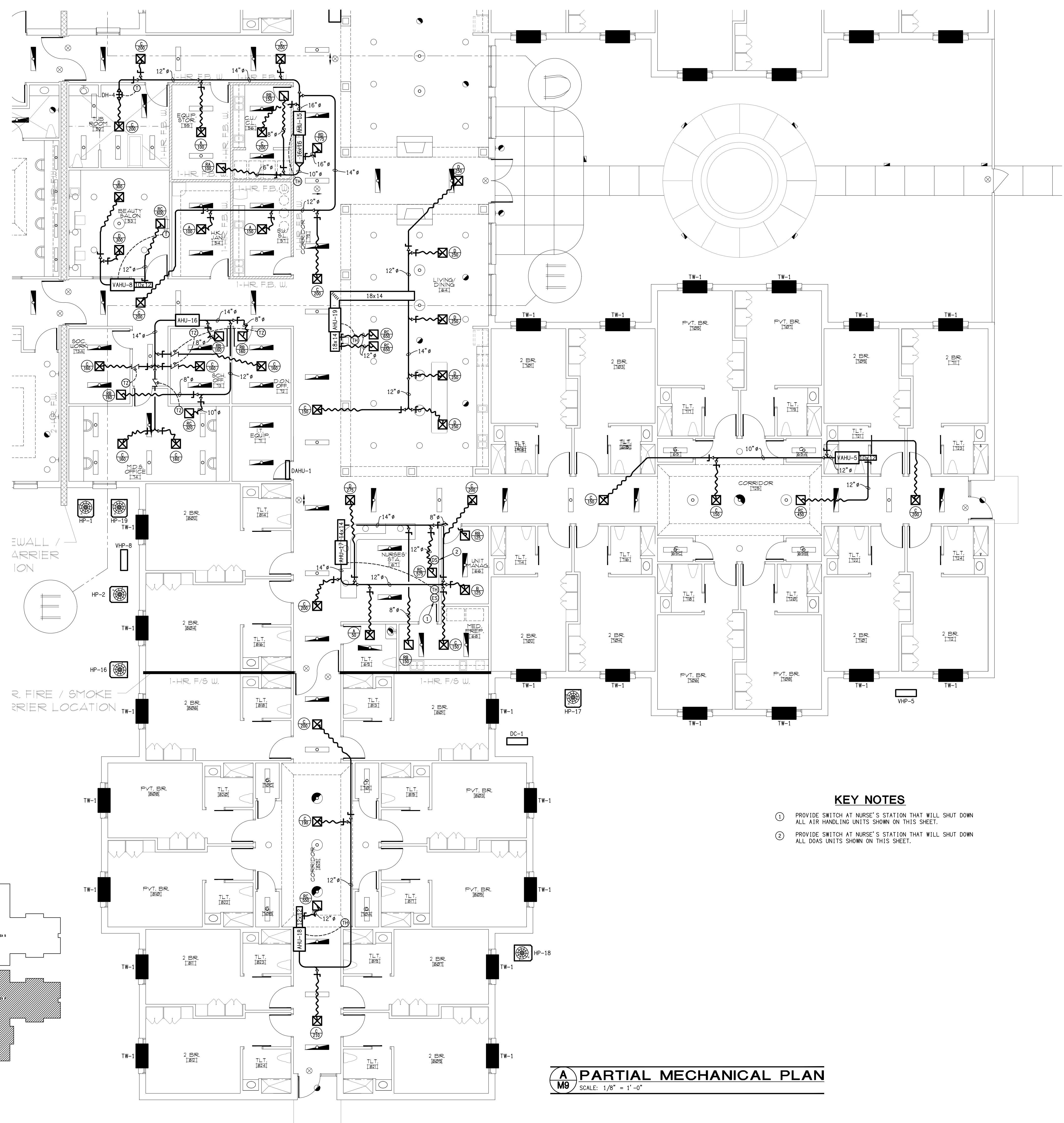


KEY PLAN

A PARTIAL MECHANICAL PLAN
MB SCALE: 1/8" = 1' - 0"

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REVISIONS			

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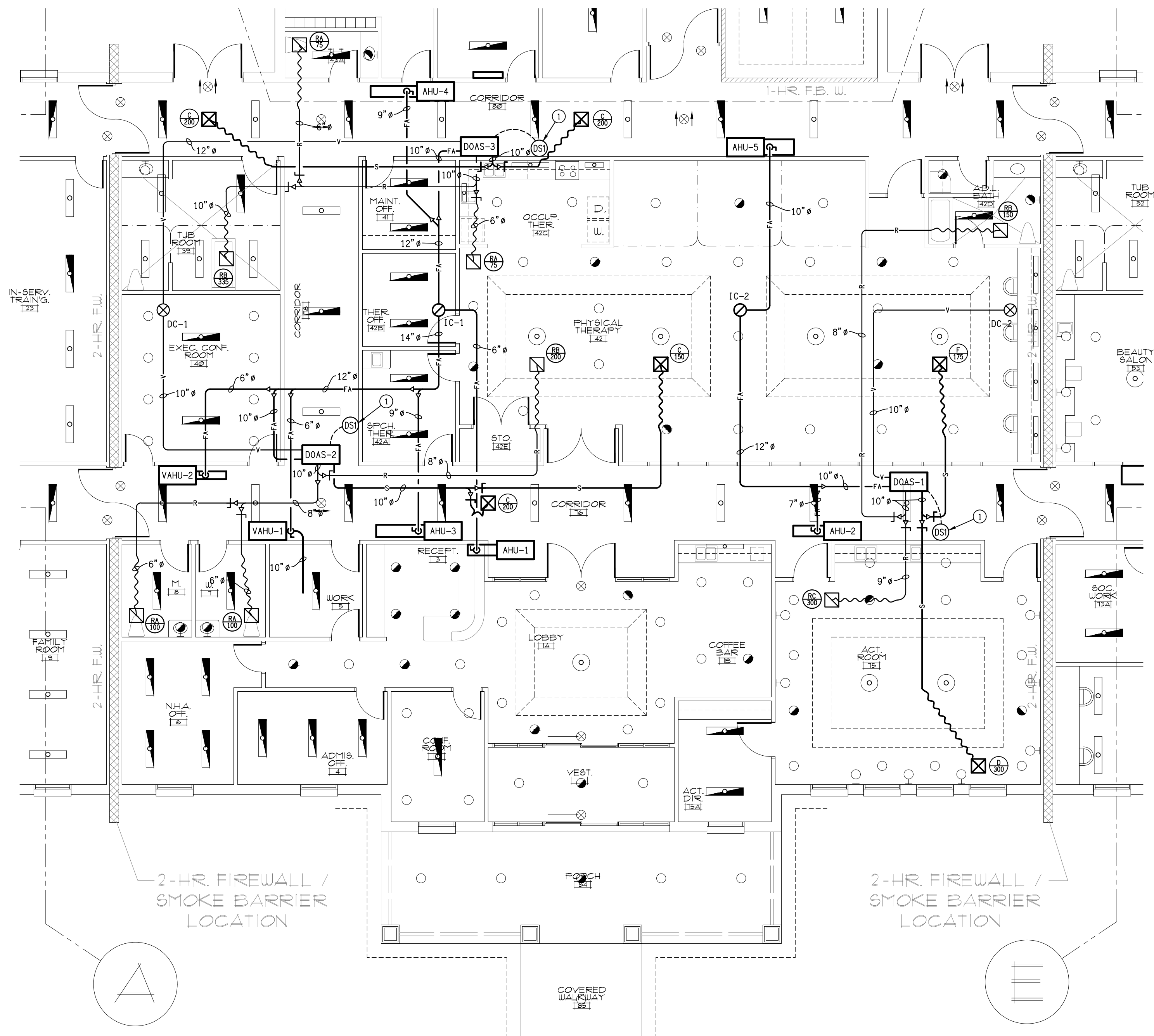
KEY NOTES

- ① PROVIDE SWITCH AT NURSE'S STATION THAT WILL SHUT DOWN ALL AIR HANDLING UNITS SHOWN ON THIS SHEET.
- ② PROVIDE SWITCH AT NURSE'S STATION THAT WILL SHUT DOWN ALL DOAS UNITS SHOWN ON THIS SHEET.

A PARTIAL MECHANICAL PLAN
M9 SCALE: 1/8" = 1'-0"

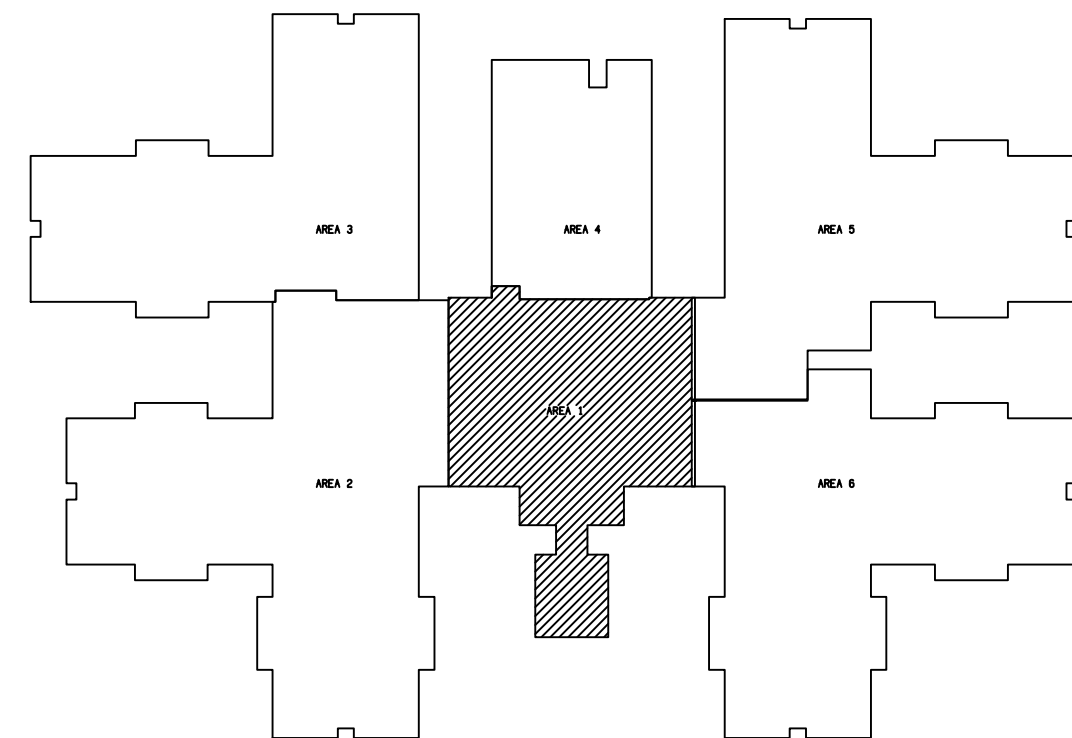
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KEY NOTES

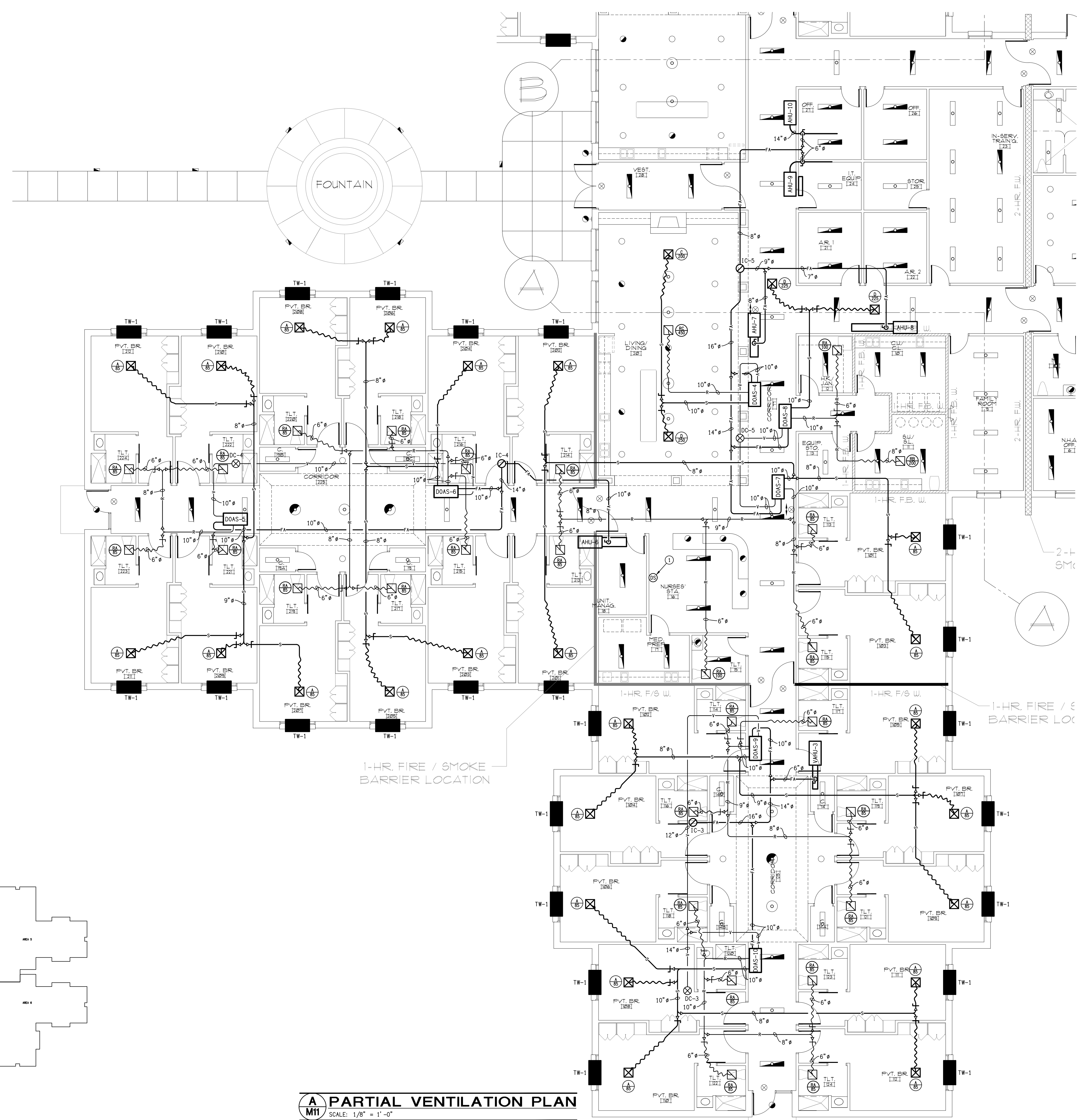
① PROVIDE A SINGLE SHUTDOWN SWITCH FOR EACH DOAS UNIT.



KEY PLAN

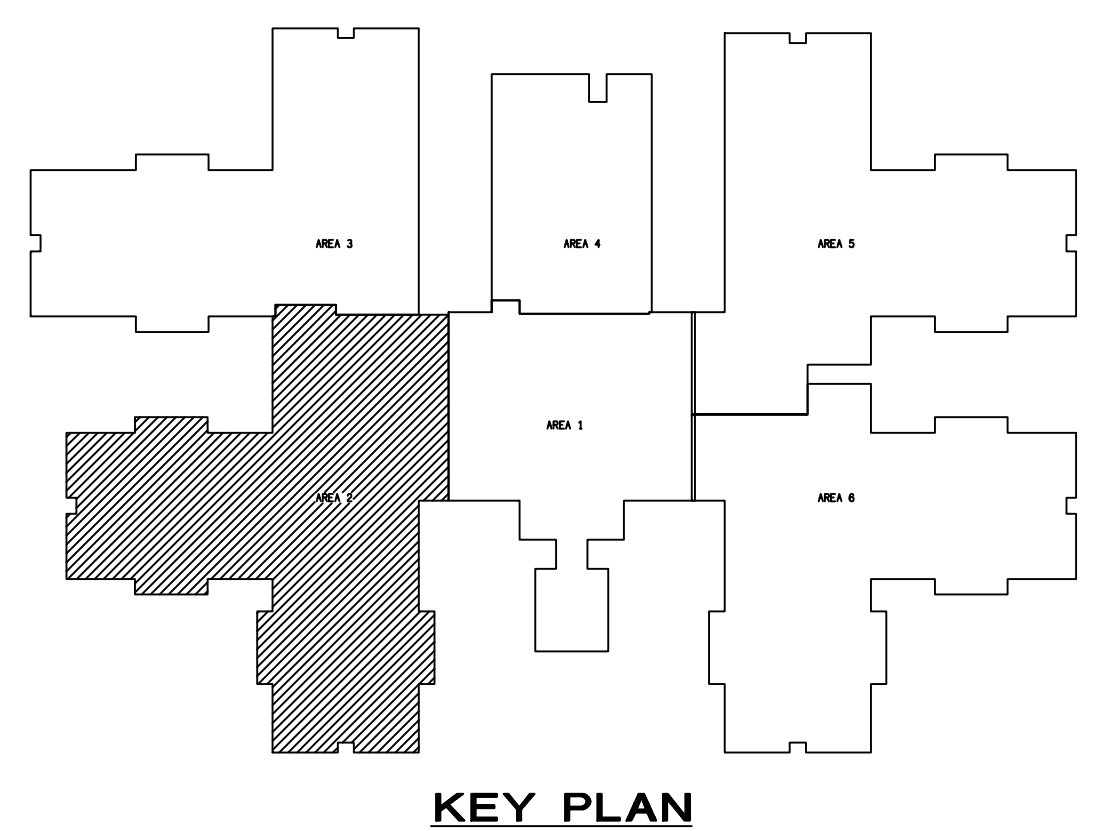
A PARTIAL VENTILATION PLAN
M10 SCALE: 1/8" = 1'-0"

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REVISIONS			



KEY NOTES

① PROVIDE EMERGENCY SHUTDOWN SWITCH AT THE NURSE'S STATION THAT SHUTS DOWN ALL DOAS UNITS IN THIS AREA.

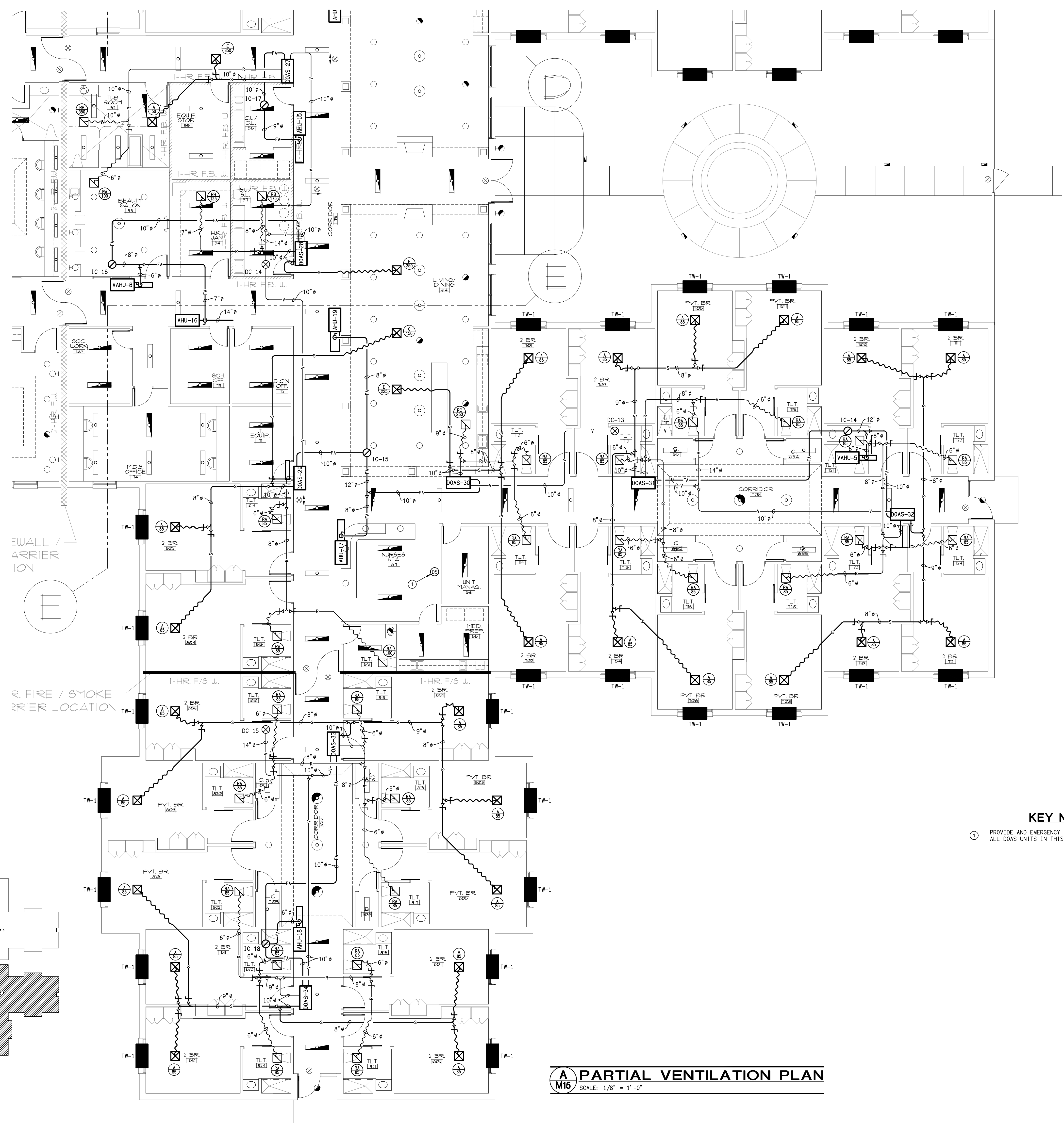


KEY PLAN

A PARTIAL VENTILATION PLAN
SCALE: 1/8" = 1'-0"

symbol	date	description	by
REVISIONS			

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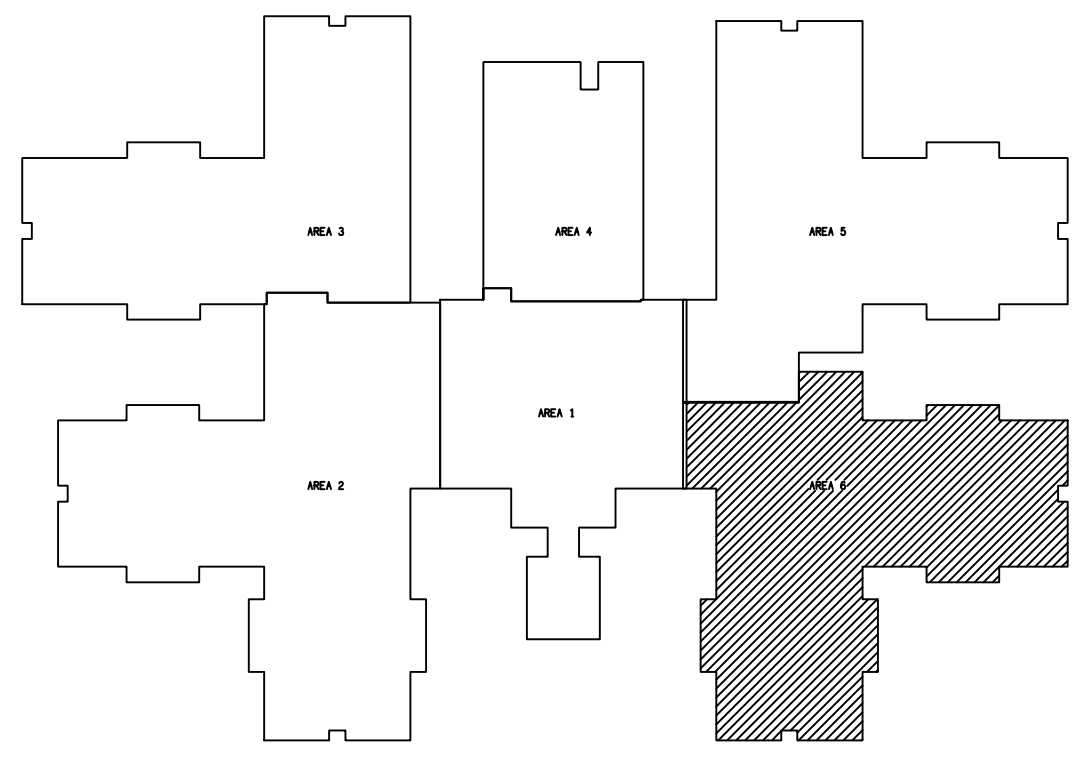


KEY NOTES

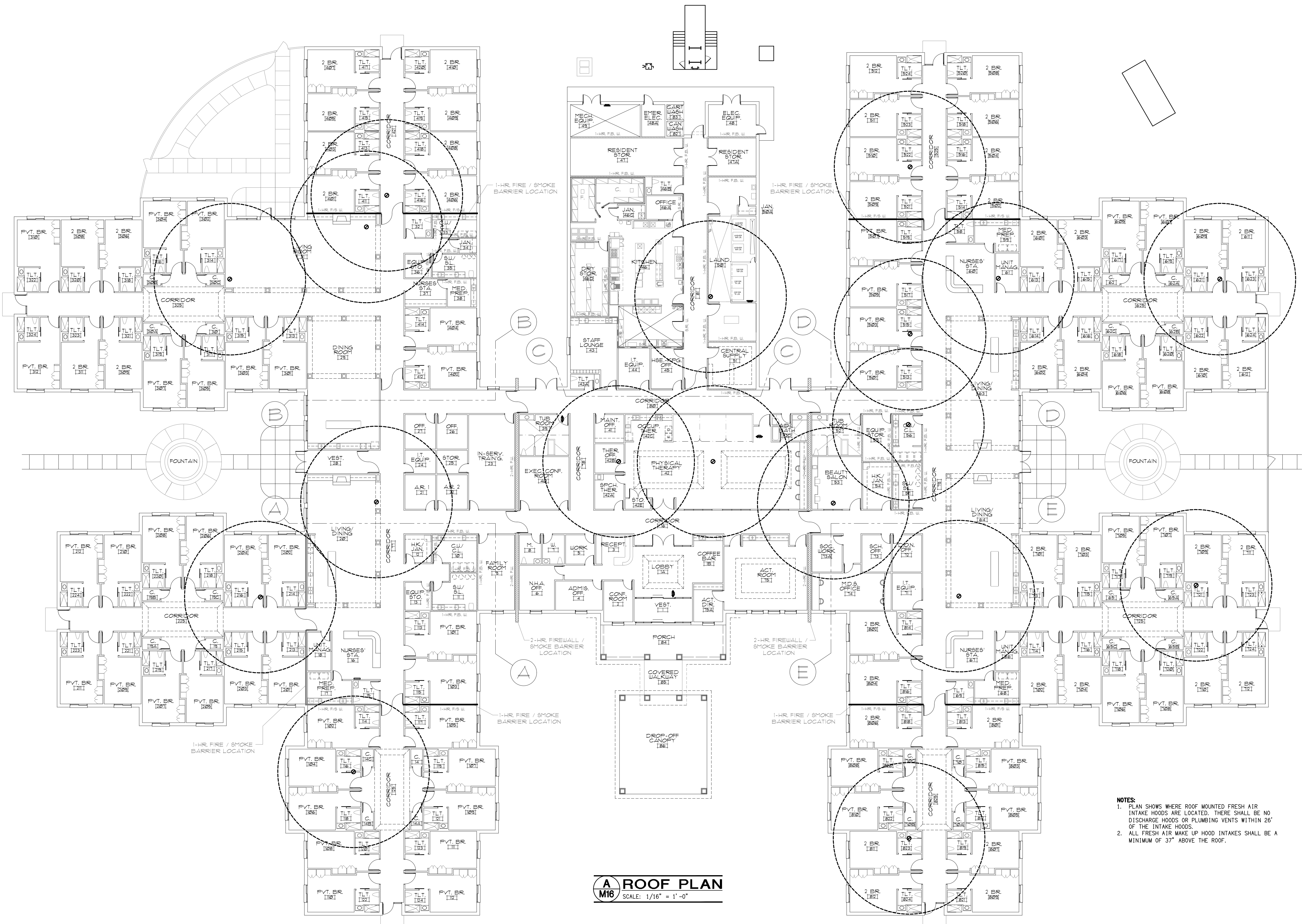
- ① PROVIDE AND EMERGENCY SHUTDOWN SWITCH TO SHUT DOWN ALL DOAS UNITS IN THIS AREA.

A PARTIAL VENTILATION PLAN
M15 SCALE: 1/8" = 1'-0"

symbol	date	description	by
REVISIONS			



KEY PLAN



A ROOF PLAN
M16 SCALE: 1/16" = 1'-0"

- NOTES:**
1. PLAN SHOWS WHERE ROOF MOUNTED FRESH AIR INTAKE HOODS ARE LOCATED. THERE SHALL BE NO DISCHARGE HOODS OR PLUMBING VENTS WITHIN 26' OF THE INTAKE HOODS.
 2. ALL FRESH AIR MAKE UP HOOD INTAKES SHALL BE A MINIMUM OF 37' ABOVE THE ROOF.

symbol	date	description	by
REVISIONS			

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