VARIABLE REFRIGERANT (VRF) SPLIT SYSTEM UNIT SCHEDULE

	OUTDOOR UNIT								AIR HANDLER												
	SYMBOL	COOLING CAP (TONS)	ELECTRICAL				MFG	MODEL	TYPE	SYMBOL	MOUNTING	COOLING CAP (TONS)	ELECTRICAL				MFG	MODEL	OUTSIDE AIR	CONDITIONED OUTSIDE AIR	DUCTED SYSTEM	SERVICE	REMARKS
			VOLT	PHASE	MCA	FUSE							VOLT	PHASE	MCA	FUSE							
	CHP-1	1¼	208	1	9	15/ 2	MITSUBISHI	NTXSKS15A112AA	HP	CDAHU-1	CEILING LAY-IN	1½	208	1	–	15/ 2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
	CHP-2	1½	208	1	11	15/ 2	MITSUBISHI	NTXSKS18A112AA	HP	CDAHU-2	CEILING LAY-IN	1½	208	1	–	15/ 2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
	CHP-3	1½	208	1	25	30/2	MITSUBISHI	NTXSKS18A112AA	HP	CDAHU-3	CEILING LAY-IN	1½	208	1	–	15/2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
	CHP-3A	1½	208	1	11	15/2	MITSUBISHI	NTXSKS18A112AA	HP	CDAHU-3A	CEILING LAY-IN	1½	208	1	–	15/ 2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
NOT USED	DC-4																						
NOT USED	DDHP-5																						
	CHP-6	1¼	208	1	9	15/2	MITSUBISHI	NTXSKS15A112AA	HP	CDAHU-6	CEILING LAY-IN	1¼	208	1	–	15/2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
	CHP-7	1	208	1	9	15/2	MITSUBISHI	NTXSKS12A112AA	HP	CDAHU-7	CEILING LAY-IN	1	208	1	–	15/2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
	CHP-8	1½	208	1	11	15/ 2	MITSUBISHI	NTXSKS18A112AA	HP	CDAHU-8	CEILING LAY-IN	1½	208	1	–	15/ 2	MITSUBISHI	PKFY-NCMU	0	0	NO	–	–
	CHP-9	1	208	1	10	15/2	MITSUBISHI	NTXSKS12A112AA	HP	CDAHU-9	CEILING LAY-IN	1¼	208	1	–	15/2	MISTUBISHI	PKFY-NCMU	0	0	NO	–	–
	DDHP-10	1½	208	1	10	15/2	MITSUBISHI	NTXSKS18A112AA	HP	DDAHU-10	CEILING CAVITY	1¼	208	1	–	15/2	MISTUBISHI	PEFY-NMAU	0	50	YES	–	–

VRF NOTES:
1. PROVIDE SUPPORT FOR OUTDOOR UNIT.
2. PROVIDE THERMOSTAT.
3. VERIFY WITH MANUFACTURER THE ALLOWABLE REFRIGERANT R.M.S.
4. PROVIDE INTEGRAL CONDENSATE PUMP.
5. FOR DC-1 & DC-4, VERIFY COOLING CAPACITY WITH IT CONTRACTOR.
6. FOR DDAHU-5 & DDAHU-10, PROVIDE MERV 13 FILTER.
7. PROVIDE CORROSION RESISTANT COATING FOR COILS IN THE OUTDOOR UNITS.
8. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/ 67°F (DB/WB), OUTDOOR OF 95°F (DB).
9. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
10. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
11. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.
12. ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
13. THE OUTDOOR UNITS SHALL BE SECURED TO COMPLY WITH THE LOCAL WIND LOAD REQUIREMENTS

CEILING HEATER SCHEDULE

	SYMBOL	DESCRIPTION	KW	VOLT	PHASE	THERMOSTAT	MFG	MODEL	PATTERN	COLOR	RECESSED	REMARKS
	CH-1	CEILING MOUNTED DOWN FLOW	2	208	1	YES	QMARK	EFF4008	WIDE	WHITE	YES	–
	CH-2	CEILING MOUNTED DOWN FLOW	2	208	1	YES	QMARK	EFF4008	WIDE	WGITE	YES	–
NOT USED	CH-3											

NOTES:
1. PROVIDE & INSTALL WALL MOUNTED THERMOSTAT.
2. PROVIDE ADAPTER FOR T-BAR CEILING.

ROOFTOP HEAT PUMP SCHEDULE

	SYMBOL	COOLING CAPACITY (TONS)	COOLING STAGES	ELECTRIC VOLT	PHASE	MCA (A)	MOCP (A)	AUXILIARY HEAT	STAGES	DIRECTION	MFG.	MODEL	SERR	CFM	FRESH AIR INTAKE (CFM)	ESP (IN OF H20)	DUCT DETECTOR	REMARKS
	RHP-1	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	775	90	0.7	NO	–
	RHP-2	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	780	90	0.7	NO	–
	RHP-3	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	800	75	0.7	NO	–
NOT USED	RHP-4																	
	RHP-5	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	800	100	0.7	NO	–
	RHP-6	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	820	50	0.7	NO	–
	RHP-7	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	800	80	0.7	NO	–
	RHP-8	2	2	208	1	61	70	6.0	2	DOWN	TRANE	4WCZ6024A100A	16	800	80	0.7	NO	–

NOTES A/C UNITS:
1. INCLUDE AUTOMATIC CROSSOVER THERMOSTAT SET AT 5'-0" AFF. PROVIDE PROGRAMMABLE THERMOSTATS WITH SETBACK TO 55° (HEAT AND 85° (COOL), 7 DAY CLOCK, 2 HOUR OCCUPANT OVERRIDE, 10 HOUR BACKUP. PROVIDE 5° DEAD BAND FOR AUTO CHANGEOVER.
2. CONTRACTOR SHALL BALANCE SYSTEM. CONTRACTOR SHALL PRESENT BALANCING REPORT TO ARCHITECT AT FINAL INSPECTION.
3. PROVIDE MERV 13 FILTERS WITH A MAX PRESSURE DROP OF 0.1".
4. ROUTE CONDENSATE TO THE ROOF DRAIN.
5. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL OUTDOOR UNITS.
6. PROVIDE ROOF CURB.
7. PROVIDE LOW AMBIENT CONTROLS FOR FREEZE PROTECTION.
8. PROVIDE CONTROLS THAT PREVENT AUXILLIARY HEAT STRIPS FROM BEING ACTIVATED WHEN THE HEAT PUMP CAN HANDLE THE HEATING LOAD EXCEPT DURING DEFROST CYCLE.
13. PROVIDE CONTROLS THAT PREVENT AUXILLIARY HEAT STRIPS FROM BEING ACTIVATED WHEN THE HEAT PUMP CAN HANDLE THE HEATING LOAD EXCEPT DURING DEFROST CYCLE AND DEHUMIDIFICATION CYCLE.
14. PROVIDE GRAVITY BACKDRAFT DAMPER OR MOTORIZED DAMPER FOR OUTDOOR AIR.
15. PROVIDE CORROSION RESISTANT COATING FOR COILS IN THE OUTDOOR UNITS.
16. THE OUTDOOR UNITS SHALL BE SECURED TO COMPLY WITH THE LOCAL WIND LOAD REQUIREMENTS.

PACKAGE TERMINAL HEAT PUMP/AC SCHEDULE

SYMBOL	COOLING CAP	VOLT	PHASE	MCA	STRIP	BREAKER	FRESH AIR	MANUFACTURER	MODEL	EER	FRESH AIR APPLICATION	REMARKS
TW-1	14,000 BTUH	208	1	19.0	2.82kW @ 208V	20/2	60 CFM	AMANA	–	11.6	BREAK ROOM	–
TW-2	9,000 BTUH	208	1	19.0	2.82kW @ 208V	20/2	0 CFM	AMANA	–	11.6	PATIENT ROOM OPEN DAMPER	–

NOTES
1. PROVIDE ARCHITECTURAL GRILLE.
2. PROVIDE CORROSION RESISTANT CASE.
3. PROVIDE CORD AND PLUG.
4. PROVIDE TIME DELAY RELAY.
5. SET UNIT TO RUN WHEN HEATING OR COOLING IS CALLED FOR.
6. PROVIDE REMOTE THERMOSTATS. VERIFY LOCATION.

GAS PACKAGE UNIT

	SYMBOL	COOLING CAPACITY (TONS)	COOLING STAGES	ELECTRIC VOLT	PHASE	MCA	BRKR	HEATING FUEL	INPUT	OUTPUT	STAGES	DIRECTION	MFG.	MODEL	SEER	ESP (IN OF H20)	CFM	FRESH AIR INTAKE (CFM)	DUCT DETECTOR	HUMIDITY CONTROL	ECONOMIZER	WEIGHT (LBS)	REMARKS
	GP-1	6 TONS	1	208	3Ø	31	45	NATURAL GAS	120M	96M	2	DOWN	TRANE	YHC072F	15	1.39	2400	375	YES	YES	YES	1200	–
	GP-2	3 TONS	1	208	3Ø	18	25	NATURAL GAS	60M	48M	1	DOWN	TRANE	YHC036E	15	.79	1150	150	NO	YES	NO	800	–
NOT USED	GP-3																						
NOT USED	GP-4																						
NOT USED	GP-5																						
	GP-5A	3 TONS	1	208	3Ø	18	25	NATURAL GAS	80M	64M	1	DOWN	TRANE	YHC036E	15	.79	1150	125	NO	YES	NO	800	–
	GP-6	3 TONS	1	208	3Ø	18	25	NATURAL GAS	60M	48M	1	DOWN	TRANE	YHC036E	15	.79	1150	200	NO	YES	NO	800	–
	GP-7	3 TONS	1	208	3Ø	18	25	NATURAL GAS	60M	48M	1	DOWN	TRANE	YHC036E	15	.79	1200	180	NO	YES	NO	800	–
	GP-8	10 TONS	2	208	3Ø	48	60	NATURAL GAS	140M	112M	1	DOWN	TRANE	YHC0120F	15	.75	3725	600	YES	YES	YES	1600	–
	GP-9	3 TONS	1	208	3Ø	18	25	NATURAL GAS	60M	48M	1	DOWN	TRANE	YHC036E	15	1.2	1200	150	NO	YES	NO	800	–
	GP-10	3 TONS	1	208	3Ø	18	25	NATURAL GAS	60M	48M	1	DOWN	TRANE	YHC060E	15	1.2	1200	120	NO	YES	NO	800	–
	GP-11	6 TONS	1	208	3Ø	31	45	NATURAL GAS	120M	96M	1	DOWN	TRANE	YHC0672F	15	1.39	2400	360	YES	YES	YES	1200	–
	GP-12	5 TONS	1	208	3Ø	26	40	NATURAL GAS	80M	64M	1	DOWN	TRANE	YHC060E	15	1.06	2000	300	NO	YES	NO	1000	–
NOT USED	GP-13																						
NOT USED	GP-14																						
	GP-15	4 TONS	1	208	3Ø	24	35	NATURAL GAS	80M	64M	1	DOWN	TRANE	YHC048E	15	.79	1600	200	NO	YES	NO	800	–

NOTES A/C UNITS:
1. PROVIDE HOT GAS BYPASS FOR HUMIDITY CONTROL.
2. INCLUDE AUTOMATIC CROSSOVER THERMOSTAT SET AT 5'-0" AFF. PROVIDE PROGRAMMABLE THERMOSTATS WITH SETBACK TO 55° (HEAT AND 85° (COOL), 7 DAY CLOCK, 2 HOUR OCCUPANT OVERRIDE, 10 HOUR BACKUP. PROVIDE 5° DEAD BAND FOR AUTO CHANGEOVER.
3. ALL CODE REQUIRED DUCT DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO INSURE THAT THE DUCT DETECTOR WILL BE COMPATIBLE WITH AND WILL CONNECT TO THE FIRE ALARM SYSTEM. PROVIDE ALL DOORS FOR THE DUCT DETECTORS.
4. PROVIDE FACTORY RECOMMENDED CLEARANCES AROUND UNITS.
5. CONTRACTOR SHALL BALANCE SYSTEM. CONTRACTOR SHALL PRESENT BALANCING REPORT TO ARCHITECT AT FINAL INSPECTION.
6. PROVIDE MERV 13 FILTER WITH A MAX PRESSURE DROP OF 0.1". FILTER SHALL BE 2" MIN.
7. ROUTE CONDENSATE TO THE CLOSEST ROOF DRAIN.
8. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL OUTDOOR UNITS.
9. PROVIDE GRAVITY BACKDRAFT DAMPER OR MOTORIZED DAMPER FOR OUTDOOR AIR.
10. PROVIDE CORROSION RESISTANT COATING FOR COILS IN THE OUTDOOR UNITS.
11. FOR THE 6 TON UNITS, PROVIDE 1 HP MOTORS WITH STATIC DRIVE.
12. FOR GP-8, INTERLOCK WITH RANGE HOOD TO ACTIVATE THE GP-8 FAN WHEN HOOD IS OPERATING.
13. THE OUTDOOR UNITS SHALL BE SECURED TO COMPLY WITH THE LOCAL WIND LOAD REQUIREMENTS.

FRESH AIR MAKE UP UNIT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DISCHARGE	RETURN	HEATING CAPACITY FUEL	HEATING CAPACITY CONTROL	HEATING CAPACITY BTUH IN	HEATING CAPACITY BTUH OUT	ELECTRIC VOLT	PHASE	FLA	MCA	BREAKER	AIR SUPPLY	RETURN AIR	WEIGHT (LBS)	COOLING CAPACITY GROSS CAPACITY	COOLING CAPACITY GROSS SENSIBLE CAPACITY	FILTER MERV	REMARKS
DOAS-1	FA PATIENT AREA	HORIZON	OAGD144A3-D1C400BC--A1E02AF6BC2C33C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	68.4	73.5	90	2,195	2,195	4,223	139 MBH	74 MBH	13	–
DOAS-2	FA PATIENT AREA	HORIZON	OAGD144A3-D1C400BC--A1E02AF6BC2C33C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	68.4	73.5	90	2,905	2,870	4,223	141 MBH	75.5 MBH	13	–
DOAS-3	FA PATIENT AREA	HORIZON	OAGD120A3-D1C400BC--A1E02AF6BC2C33C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	61.4	65.7	80	2,420	2,375	4,223	122 MBH	65.3 MBH	13	–
DOAS-4	FA PATIENT AREA	HORIZON	OAGD144A3-D1C400BC--A1E02AF6BC2C33C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	68.4	73.5	90	2,640	2,535	4,223	139 MBH	74 MBH	13	–
DOAS-5	FA PATIENT AREA	HORIZON	OAGD108A3-D1C400BC--A1C02AF6AC2C13C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	50.8	57.7	80	1,380	1,140	4,223	97.3 MBH	48.1 MBH	13	–
DOAS-6	FA PATIENT AREA	HORIZON	OAGD108A3-D1C400BC--A1C02AF6AC2C13C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	50.8	57.7	80	1,340	1,340	4,223	97.3 MBH	48.1 MBH	13	–
DOAS-7	FA PATIENT AREA	HORIZON	OAGD144A3-D1C400BC--A1E02AF6BC2C33C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	68.4	73.5	90	2,510	2,320	4,493	136.4 MBH	72 MBH	13	–
DOAS-8	FA PATIENT AREA	HORIZON	OAGD144A3-D1C400BC--A1E02AF6BC2C33C004A0	VERTICAL	VERTICAL	NATURAL GAS	MODULATING	150 MBH	120 MBH	208	3	68.4	73.5	90	2,150	1,750	4,493	136.4 MBH	72 MBH	13	–

FRESH AIR MAKE UP UNIT NOTES:
1. UNITS SHALL BE CAPABLE OF DELIVERING 48°F DX COIL TEMPERATURES AND THEN REHEATED SUPPLY AIR TEMPERATURE BACK TO 75°F AT ALL LOAD CONDITIONS
2. PROVIDE 2" R13 DOUBLE WALL CONSTRICTION.
3. PROVIDE 304 STAINLESS STEEL INTERIOR CABINET INCLUDING WALLS, FRAMES, DOORS AND COIL CASINGS.
4. PROVIDE 2" MERV 13 PLEATED MEDIA FILTERS WITH DIFFERENTIAL PRESSURE GAUGE ACROSS THE FILTERS..
5. PROVIDE ECM SUPPLY AND EXHAUST FAN MOTORS;
6. PROVIDE INTEGRAL ENERGY RECOVERY WHEEL WITH ALL ALUMINUM CONSTRUCTION. PAPER OR FIBROUS WHEELS ARE NOT ACCEPTABLE
7. PROVIDE NEEDLEPOINT BIPOLAR IONIZATION BY PHENOMENALAIRE.
8. PROVIDE LOW LEAK CLASS 1A MOTORIZED OUTSIDE AIR DAMPER.
9. PROVIDE DIGITAL COMPRESSOR ON BOTH CIRCUITS.
10. PROVIDE VARIABLE SPEED CONDENSER FAN WITH HEAD PRESSURE CONTROL.
11. PROVIDE SUPPLY AND EXHAUST FAN AIRFLOW MEASURING SENSOR.
12. PROVIDE UNIT MOUNTED TOUCH SCREEN DISPLAY PANEL.
13. PROVIDE VIBRATION ISOLATION ROOF CURB WITH 2" SPRING RAILS.
14. PROVIDE CORROSION COATED EVAPORATOR, CONDENSER AND HOT GAS REHEAT COILS TO MEET ASTM B117 5,000 HOUR SALT SPRAY RATING.
15. PROVIDE STAINLESS STEEL DRAIN PAN.
16. PROVIDE STAINLESS STEEL GAS HEAT EXCHANGER.
17. PROVIDE FACTORY STARTUP AND 1 YEAR PARTS AND LABOR WARRANTY. PROVIDE 5 YEAR COMPRESSOR PARTS WARRANTY AND 25 YEAR HEAT EXCHANGER PARTS WARRANTY.
18. THE OUTDOOR UNITS SHALL BE SECURED TO COMPLY WITH THE LOCAL WIND LOAD REQUIREMENTS.

LEGEND

- SUPPLY REGISTER HVA/C SYSTEM
- RETURN REGISTER HVA/C SYSTEM
- SUPPLY GRILLE WHERE BALANCING WILL BE DONE AT THE GRILL
- SUPPLY AND RETURN GRILLES THAT WILL HAVE RADIATION DAMPERS AT THE GRILLES
- THERMOSTAT
- THERMOSTAT WITH REMOTE SENSOR
- HUMIDISTAT
- RECTANGULAR DUCT – 20" WIDE INSIDE A/C SYSTEM – 10" HIGH INSIDE
- RIGID ROUND DUCT – 10" I.D.
- FLEX DUCT – 10" I.D.
- BALANCING DAMPER
- CONDENSATE PIPE
- REDUCER
- VENT FAN IN CEILING
- INLINE VENT FAN
- DISCHARGE CAP SET BELOW ROOF RIDGE (SEE ARCH FOR LOCATION)
- INTAKE CAP SET BELOW ROOF RIDGE (SEE ARCH FOR LOCATION)
- REGISTER: CFM
- RETURN REGISTER – VENT SYSTEM
- TURNING VANES
- ALUMINUM WEATHER CAP WITH BACKDRAFT DAMPER
- VENTILATION DUCT
- FRESH AIR DUCT
- DOAS SUPPLY DUCT
- DOAS RETURN DUCT
- DRYER DUCT
- 1½ HR STATIC FIRE DAMPER
- FIRE/SMOKE DAMPER
- FIRE/SMOKE DAMPER – 1 HOUR FIRE WALL
- FIRE/SMOKE DAMPER – 2 HOUR FIRE WALL
- SMOKE DAMPER
- DUCT DETECTOR
- EMERGENCY SHUTOFF

GENERAL NOTES:

1. FOR THE SKILLED NURSING FACILITY ALL FRESH AIR MAKE-UP ROOF PENETRATIONS SHALL PENETRATE ROOF AT SAME DISTANCE FROM EAVE & SHALL BE 25'0" 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. FOR ASSISTED LIVING AND MEMORY CARE ALL FRESH AIR MAKE UP SHALL BE A MINIMUM OF 10-0" FROM ALL PLUMBING VENTS AND AIR DISCHARGE POINTS.
2. 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.
3. MOUNT ALL THERMOSTATS AT 4'0" AFF MAX.
4. 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.
5. OVERSIZED REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS FOR LONG RUNS OR AS SHOWN ON THE PLANS.
6. PROVIDE POWER CONNECTION FOR CONDENSATE PUMPS AS REQUIRED.
7. 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.
8. 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.
9. MAXIMUM FLEX DUCT RUNS SHALL BE 14'0" MAXIMUM.
10. CONTRACTOR SHALL RUN ALL DUCTWORK ON OUTSIDE OF THE CATWALK.
11. ALL DUCTWORK SHALL BE CLASS 1 MIN.
12. DISCHARGE CONDENSATE TO INDIRECT DISCHARGE.
13. AHU SMOKE DETECTOR SYSYTEM IS PROVIDED BY A FULL COVERAGE SMOKE DETECTION SYSTEM PER NFPA72E. SEE FIRE ALARM SHEET IN THE ELECTRICAL PACKAGE. ANY SYSTEM THAT SERVICES THE HALL AND OTHER ROOM HAS A SMOKE DETECTOR AT 3'-0" OF THE RETURN. ALL AHU'S WILL SHUTDOWN UPON GENERAL ALARM.
14. PLACE NURSE STATION & PATIENT AREA EMERGENCY SHUT-OFF SWITCHES AT NURSE'S STATION. VERIFY LOCATION.
15. RESIDENT ROOMS HEATING AND AIR CONDITIONING SHALL OPERATE ON EMERGENCY POWER. COORDINATE WITH ELECTRICAL CONTRACTOR FOR STARTUP AND OPERATION ON EMERGENCY POWER.
16. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ROUTE THE CONDENSATE PIPE TO STORM WATER DOWNSPOUTS.
17. ALL ROOF PENETRATIONS FOR VENT FANS, INTAKE CAPS & DISCHARGE CAPS SHALL BE SAME DISTANCE FROM EAVE.
18. AT THE END OF THE PROJECT THE CONTRACTOR SHALL PROVIDE A 3RD PARTY, CERTIFIED TEST AND BALANCE COMPANY TO PROVIDE TESTING, BALANCING AND A REPORT TO BE PRESENTED TO THE ARCHITECT. AT THE END OF THE PROJECT FOR THE BALANCING REPORT, THE CFM'S SHOWN FOR ALL VENTILATION GRILLES SHALL BE A MINIMUM FIGURE.
19. PROVIDE ¼" ARMAFLEX INSULATION ON ALL INTERIOR CONDENSATE TRAPS AND 3' BEYOND TRAPS. INSULATION NOT NEEDED FOR EXTERIOR CONDENSATE PIPE.
20. PROVIDE CONDENSATE PUMP AND POWER FOR THE CONDENSATE PUMP, WHEN GRAVITY DRAINAGE IS NOT POSSIBLE WITHOUT ADDITIONAL COST TO THE OWNER.
21. FOR CONDENSATE PUMP DISCHARGE, PROVIDE 5/8" PLASTIC TUBING WITH ½" ARMAFLEX INSULATION FOR THE 1ST 5' OF THE DISCHARGE. ALSO, INSULATE TRAPS & PVC PIPE FEEDING PUMP.
22. FOR EXTERIOR CONDENSATE PIPE, ROUTE TO STORM DRAIN.

PRE-CONSTRUCTION NOTES:
1. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT ALL WINDOWS NEED FOR DUCT ROUTING THROUGH TRUSS ARE IN PLACE.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE TRUSS CONTRACTOR BEFORE TRUSSES ARE FABRICATED TO INSURE DUCT CLEARANCE.
3. MECHANICAL CONTRACTOR SHALL ISSUE SHOP DRAWINGS FOR THE DUCT INSTALLATION.
4. COORDINATE WITH THE G.C. TO VERIFY WHERE COFFERED CEILING WILL BE USED. ADJUST THE GRILLE ARRANGEMENT AS NEEDED.
4. LOCATION OF ALL OUTDOOR UNITS SHALL BE APPROVED BY THE OWNER.

PRUITT HEALTH
COMPLIANCE SCHEDULE – MECHANICAL

METHOD OF COMPLIANCE	PRESCRIPTIVE
ENERGY COST BUDGET	
THERMAL ZONE	3A
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	1,860,000 BTUH
BUILDING COOLING LOAD	1,720,000 BTUH
MECHANICAL SPACING CONDITIONING SYSTEM	
DESCRIPTION OF UNIT – HEATING EFFICIENCY – COOLING EFFICIENCY – HEAT OUTPUT OF UNIT – COOLING OUTPUT OF UNIT –	SEE EQUIPMENT SCHEDULE
TOTAL BOILER OUTPUT (IF OVERSIZED STATE REASON)	N/A
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: _____

NAME: DAVID B. SIMS JR., PE

TITLE: ENGINEER

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NORTH CAROLINA PROFESSIONAL SEAL 007138 ENGINEER DAVID B. SIMS JR.
03/25/2022

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ARBORETUM CENTRE
108 GILES AVE, SUITE 100
WILMINGTON, NC 28403
910.791.8016
NC License: C-1150
www.dsaeng.com

PROPOSED:

LEO BROWN GROUP

THE EMBASSY AT MOREHEAD CITY

A NEW SKILLED NURSING, MEMORY CARE, & ASSISTED LIVING FACILITY

3822 GALANTIS DRIVE
MOREHEAD CITY, NC 28557

PUBLICATION	DATE
CONCEPT:	
SCHEMATIC DESIGN:	07-16-21
PRELIMINARY DESIGN:	07-01-21
DESIGN DEVELOPMENT:	09-01-21
PERMIT SET:	03-25-22
BID SET:	10-15-21
FOR CONSTRUCTION:	
REVISIONS:	

PLOT DATE: 3/25/2022 3:53:25 PM

FILE LOCATION: F:\PROJECTS\2021\21122\DRAWINGS\21122m1.0.dwg

SHEET DESCRIPTION:

MECHANICAL SCHEDULES

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

M1.0

LOUVER SCHEDULE

SYMBOL	DESCRIPTION	SIZE WXH	RAIN	BACKDRAFT DAMPER	SCREEN	MATERIAL	PAINT	MANUFACTURER	MODEL	REMARKS
L-1	STATIONARY INTAKE	24x18	YES	MOTORIZED	BIRD	ALUMINUM	MATCH BUILDING	RUSKIN	ELF375DX	-

NOTES:
1. INTAKE LOUVER L-1 WITH F-1 TO OPEN WHEN FAN IS OPERATIONAL USE 24V.

REGISTER SCHEDULE

SYMBOL	DESCRIPTION	NECK	RUN OUT	RADIATION DAMPER	BALANCING DAMPER	MATERIAL	COLOR	MFG.	MODEL	REMARKS
A	2x2 LAY-IN SUPPLY 4-WAY SUPPLY	6x6	6"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
B	2x2 LAY-IN SUPPLY 4-WAY SUPPLY	6x6	7"ø	NO	YES	STEEL	WHITE	PRICE	SMD	--
C	2x2 LAY-IN SUPPLY 4-WAY SUPPLY	9x9	8"ø	NO	YES	STEEL	WHITE	PRICE	SMD	--
D	2x2 LAY-IN SUPPLY 4-WAY SUPPLY	9x9	9"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
E	2x2 LAY-IN SUPPLY 4-WAY SUPPLY	12x12	10"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
F	2x2 LAY-IN SUPPLY 4-WAY SUPPLY	12x12	12"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
G	SURFACE 4-WAY SUPPLY	6x6	6"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
H	SURFACE 4-WAY SUPPLY	6x6	7"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
I	SURFACE 4-WAY SUPPLY	9x9	8"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
J	SURFACE 4-WAY SUPPLY	9x9	9"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
K	SURFACE 4-WAY SUPPLY	12x12	10"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
L	SURFACE 4-WAY SUPPLY	12x12	12"ø	NO	YES	STEEL	WHITE	PRICE	SMD	-
M	PERFORATED SUPPLY LAY-IN	24x24	10"ø	NO	NO	STEEL	WHITE	PRICE	10 SERIES	USE RETURN GRILLE
N	PERFORATED SUPPLY LAY-IN	24x24	12"ø	NO	NO	STEEL	WHITE	PRICE	10 SERIES	USE RETURN GRILLE
P	SIDEWALL SUPPLY	4x8	6"ø	NO	YES	STEEL	WHITE	PRICE	540	-
Q	SIDEWALL SUPPLY	12x5	7"ø	NO	YES	STEEL	WHITE	PRICE	540	-
R	2X2 LAY-IN 3-WAY SUPPLY	9x9	8"ø	NO	YES	STEEL	WHITE	PRICE	SMD	3-WAY
S	SURFACE PERFORATED SUPPLY	16x16	9"ø	NO	YES	STEEL	WHITE	PRICE	PDR	USE RETURN AIR GRILLE
T	SURFACE PERFORATED SUPPLY	18x18	12"ø	NO	YES	STEEL	WHITE	PRICE	PDR	
RA	2'x2' LAY-IN RETURN	22x22		NO	YES	STEEL	WHITE	PRICE	530	-
RB	SURFACE RETURN	10x8		NO	YES	STEEL	WHITE	PRICE	530	150
RC	SURFACE RETURN	12x12		NO	YES	STEEL	WHITE	PRICE	530	150-400
RD	SURFACE RETURN	18x18		NO	YES	STEEL	WHITE	PRICE	530	400-750
RE	SURFACE RETURN	24x18		NO	YES	STEEL	WHITE	PRICE	530	750-1000
RF	SURFACE RETURN	30x18		NO	YES	STEEL	WHITE	PRICE	530	1200

FAN SCHEDULE

SYMBOL	DESCRIPTION	CFM	S.P.	SET CFM	VOLT	PHASE	HP	AMPS	MOUNTING	MANUFACTURER	MODEL	REMARKS
F-1	VENT FAN ROOF MOUNT	1179	¼"	900	120	1	-	4	ROOF	GREENHECK	GB-091	NOTES 1,2,3,4
F-2	VENT FAN ROOF MOUNT	120	¼"	100	120	1	-	-	ROOF	GREENHECK	G-065	NOTES 1,2,3
F-3	VENT FAN	228	¼"	170	120	1	-	-	CEILING	GREENHECK	SP-A250	NOTES 1,2
F-4	VENT FAN	154	¼"	80	120	1	-	-	CEILING	GREENHECK	SPD-150	NOTES 1,2

NOTES:
1. PROVIDE BACK DRAFT DAMPER.
2. PROVIDE SPEED CONTROL.
3. PROVIDE ROOF CURB.
4. INTERLOCK WITH INTAKE LOUVER.

DUCT HEATER SCHEDULE

SYMBOL	DESCRIPTION	CFM	kW	VOLT	PHASE	THERMOSTAT	MFG.	MODEL	DUCT AT HEATER	REMARKS
DH-1	DUCT HEATER	125	3	208	1	YES	MARKEL	SCR	1,2,3,4,5,6	SEE NOTES
DH-2	DUCT HEATER	125	3	208	1	YES	MARKEL	SCR	1,2,3,4,5,6	SEE NOTES
DH-3	DUCT HEATER	100	2	208	1	YES	MARKEL	SCR	1,2,3,4,5,6	SEE NOTES
DH-4	DUCT HEATER	125	3	208	1	YES	MARKEL	SCR	1,2,3,4,5,6	SEE NOTES
DH-5	DUCT HEATER	200	4.5	208	1	YES	MARKEL	SCR	1,2,3,4,5,6	SEE NOTES

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

ROOF MOUNTED GRAVITY DISCHARGE & INTAKE

SYMBOL	TYPE	DESIGN CFM	MANUFACTURER	SIZE	MODEL	MATERIAL	MOUNTING	SERVICE	REMARKS
DC-1	DISCHARGE	2195	GREENHECK	24"ø	GRS-24	ALUMINUM	ROOF	DOAS-1	-
DC-2	DISCHARGE	2870	GREENHECK	30"ø	GRS-30	ALUMINUM	ROOF	DOAS-2	-
DC-3	DISCHARGE	2375	GREENHECK	30"ø	GRS-30	ALUMINUM	ROOF	DOAS-3	-
DC-4	DISCHARGE	2535	GREENHECK	30"ø	GRS-30	ALUMINUM	ROOF	DOAS-4	-
DC-5	DISCHARGE	1140	GREENHECK	20"ø	GRS-20	ALUMINUM	ROOF	DOAS-5	-
DC-6	DISCHARGE	1340	GREENHECK	20"ø	GRS-20	ALUMINUM	ROOF	DOAS-6	-
DC-7	DISCHARGE	2320	GREENHECK	30"ø	GRS-30	ALUMINUM	ROOF	DOAS-7	-
DC-8	DISCHARGE	250	GREENHECK	10"ø	GRS-10	ALUMINUM	ROOF	FANS 3,4	-
DC-9	DISCHARGE	1750	GREENHECK	24"ø	GRS-24	ALUMINUM	ROOF	DOAS-8	-
IC-1	INTAKE	460	GREENHECK	12"ø	GRSI-12	ALUMINUM	ROOF	AHU-1,2,3	INTAKE SHALL BE 3'-0" ABOVE THE ROOF.

NOTES:
1. PROVIDE ROOF CURB.
2. PROVIDE BACKDRAFT DAMPERS.
3. THE OUTDOOR UNITS SHALL BE SECURED TO COMPLY WITH THE LOCAL WIND LOAD REQUIREMENTS.

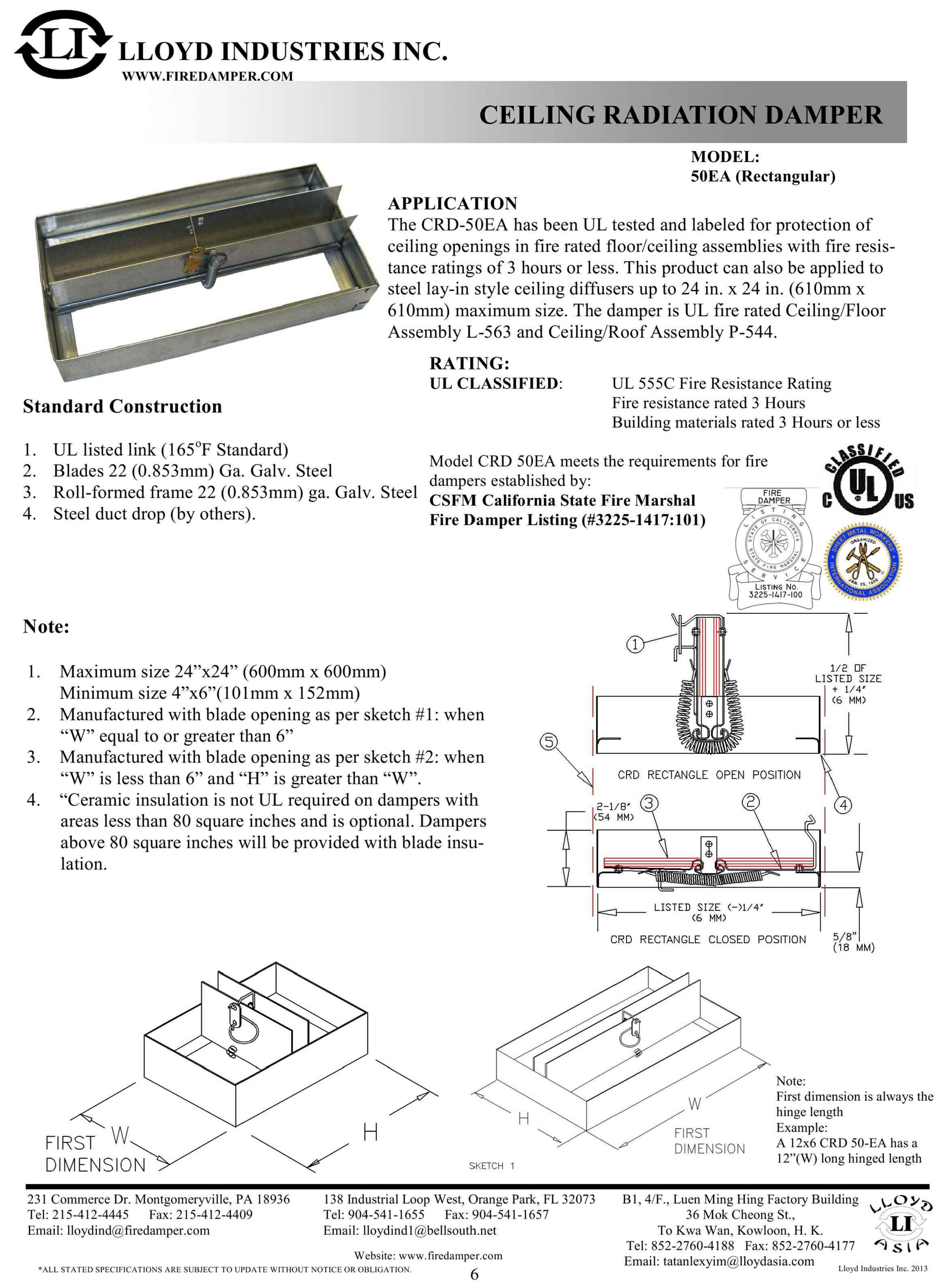
WALL HEATER SCHEDULE

SYMBOL	DESCRIPTION	kW	VOLT	PHASE	THERMOSTAT	MFG.	MODEL	REMARKS
WH-1	WALL	2	120	1	ON UNIT	Q-MARK	AWH4208	-

SPLIT SYSTEM UNIT SCHEDULE

OUTDOOR UNIT	COOLING CAP (TONS)	ELECTRICAL				MFG	MODEL	AIR HANDLER																
								SYMBOL	TYPE	ELECTRIC					MFG	MODEL	FAN CFM	FRESH AIR INTAKE (CFM)	ESP (IN OF H_2O) VERT/H.R)	SEER	DUCT DETECTOR	HUMIDITY CONTROL	HP WEIGHT (LBS)	REMARKS
		VOLT	PHASE	MCA	FUSE					STRIP (KW)	VOLT	PHASE	MCA	FUSE										
HP-1	2½	208	1		25	TRANE	4TWR5030	AHU-1	HORZ	7.2	208	1	38	50	TRANE	TEM9A0C30	975	125	0.9	15	NO	YES		-
HP-2	2½	208	1		25	TRANE	4TWR5030	AHU-2	HORZ	7.2	208	1	38	50	TRANE	TEM9A0C30	960	125	0.7	15	NO	YES		-
HP-3	3	208	1		30	TRANE	4TWR5036	AHU-3	HORZ	7.2	208	1	38	50	TRANE	TEM9A0C42	1175	125	0.9	15	NO	YES		-

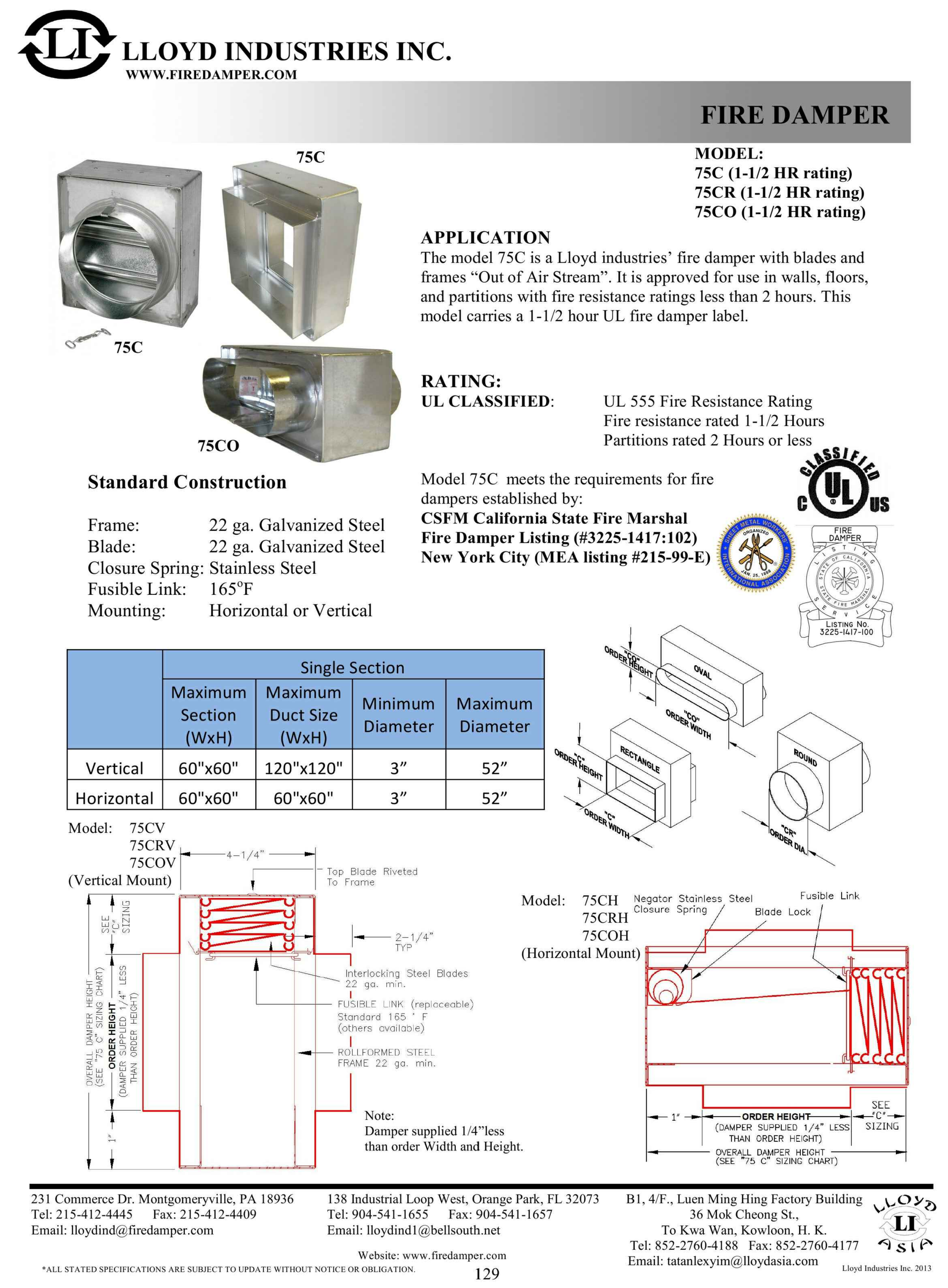
NOTES A/C UNITS:
1. PROVIDE GALVANIZED DRIP PANS AT EACH UNIT WITH PAN DRAINS TO OUTSIDE BUILDING.
2. PROVIDE SOLID STATE PROGRAMMABLE THERMOSTAT WITH SET BACK CONTROLS FOR TIME OF DAY AND DAY OF WEEK, AND CAPABLE OF TEMPORARY MANUAL OVERRIDE
3. PROVIDE SUPPORT FOR COMPRESSOR.
4. CONTRACTOR SHALL PROVIDE AS A MINIMUM, PROVIDE TWO 24'x24"2" MERV 13 FILTERS. MAX ΔP=0.125 IN
5. PROVIDE FRENCH DRAINS PER N.C. STATE CODE FOR CONDENSATE DISCHARGE.
6. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AROUND ALL INDOOR AND OUTDOOR UNITS.
7. CONSULT WITH COMPRESSOR MANUFACTURER FOR THE CORRECT SIZING OF REFRIGERANT LINES. PROVIDE MANUFACTURER RECOMMENDED EQUIPMENT FOR ANY LONG REFRIGERANT LINE LENGTHS.
8. PROVIDE LOW AMBIENT CONTROLS FOR FREEZE PROTECTION.
9. PROVIDE CONTROLS THAT PREVENT AUXILIARY HEAT STRIPS FROM BEING ACTIVATED WHEN THE HEAT PUMP CAN HANDLE THE HEATING LOAD EXCEPT DURING DEFROST CYCLE.
10. 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.
11. FOR UNITS SHOWING A COMBINATION THERMOSTAT/HUMIDISTAT ON THE PLANS, PROVIDE A UNIT MEETING THE REQUIREMENTS CONTROL ABOVE AND COMPATIBLE WITH SIMPLE ENGINEERED SOLUTIONS HPDM-XX (VERIFY SPECIFIC MODEL FOR APPLICATION) MODULE OR EQUAL. HUMIDITY SHALL ACTIVATE THE COOLING STATE 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.
12. THE ENTIRE OUTDOOR UNIT (COIL, CABINET, ETC) SHALL BE BE CORROSION PROTECTED TO MEET ASTM B117 5,000 HOUR SALT SPRAY STANDARD.
13. AHU COIL SHALL COME WITH MANUFACTURER FACTORY APPLIED BLACK EPOXY COATING.
14. THE OUTDOOR UNITS SHALL BE SECURED TO COMPLY WITH THE LOCAL WIND LOAD REQUIREMENTS.



LLOYD INDUSTRIES INC.
WWW.FIREDAMPER.COM
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
Standard Construction
1. UL listed link (165°F Standard)
2. Blades 22 (0.853mm) Ga. Galv. Steel
3. Roll-formed frame 22 (0.853mm) ga. Galv. Steel
4. Steel duct drop (by others).
Model CRD 50EA meets the requirements for fire dampers established by:
CSFM California State Fire Marshal
Fire Damper Listing (#3225-1417:101)
Note:
1. Maximum size 24"x24" (600mm x 600mm) Minimum size 4"x6"(101mm x 152mm)
2. Manufactured with blade opening as per sketch #1: when "W" equal to or greater than 6"
3. Manufactured with blade opening as per sketch #2: when "W" is less than 6" and "H" is greater than "W".
4. "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.
CRD RECTANGLE OPEN POSITION
CRD RECTANGLE CLOSED POSITION
FIRST DIMENSION
231 Commerce Dr. Montgomeryville, PA 18936
138 Industrial Loop West, Orange Park, FL 32073
Website: www.firedamper.com
6

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.

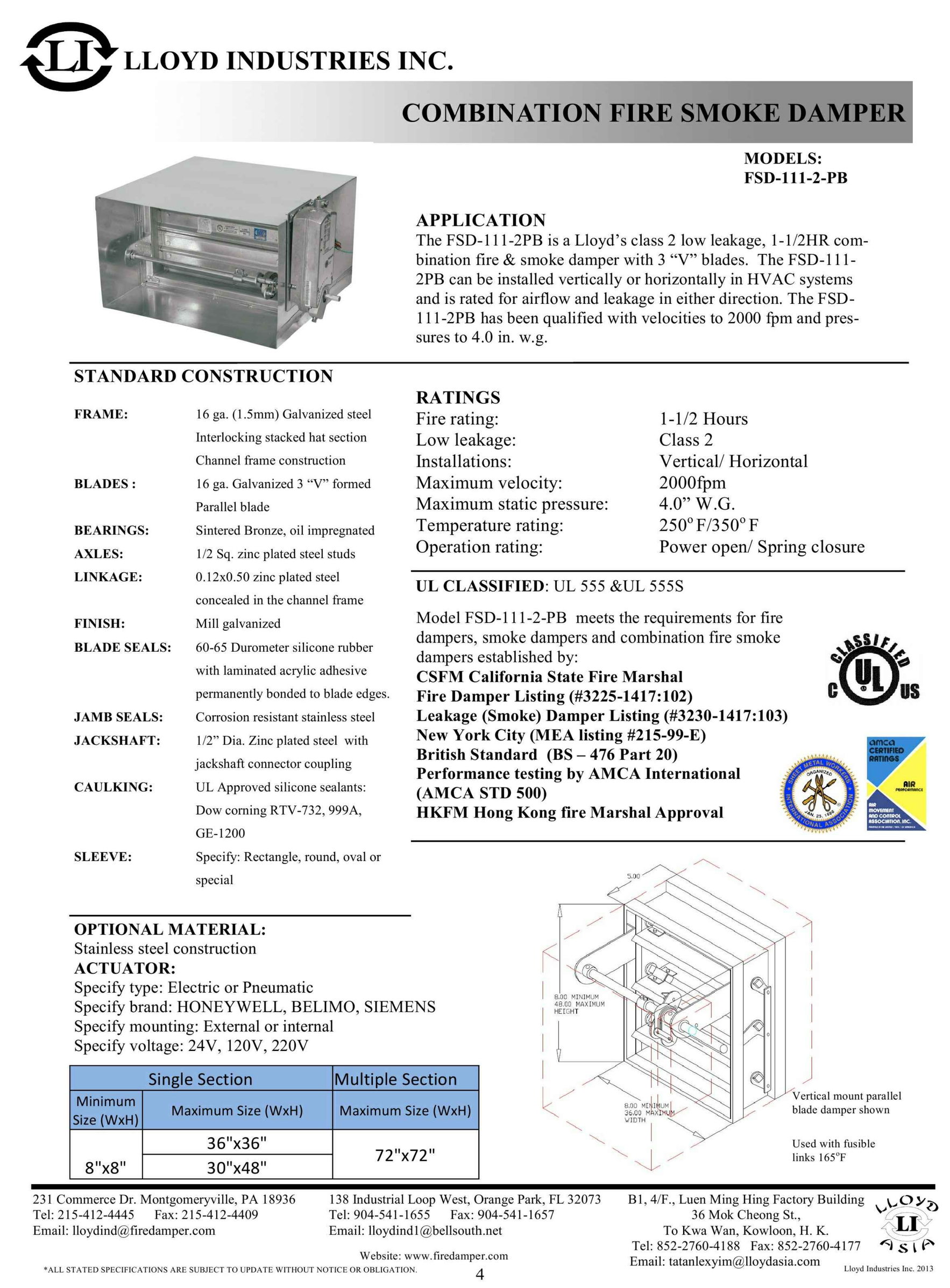
A / M1.1 RADIATION DAMPER DETAIL
SCALE: NTS — 1 HR SHEETROCK CEILING



LLOYD INDUSTRIES INC.
WWW.FIREDAMPER.COM
FIRE DAMPER
MODEL: 75C (1-1/2 HR rating) 75CR (1-1/2 HR rating) 75CO (1-1/2 HR rating)
APPLICATION
The model 75C is a Lloyd industries' fire damper with blades and frames "Out of Air Stream". It is approved for use in walls, floors, and partitions with fire resistance ratings less than 2 hours. This model carries a 1-1/2 hour UL fire damper label.
RATING:
UL CLASSIFIED: UL 555 Fire Resistance Rating
Fire resistance rated 1-1/2 Hours
Partitions rated 2 Hours or less
Standard Construction
Frame: 22 ga. Galvanized Steel
Blade: 22 ga. Galvanized Steel
Closure Spring: Stainless Steel
Fusible Link: 165°F
Mounting: Horizontal or Vertical
Model 75C meets the requirements for fire dampers established by:
CSFM California State Fire Marshal
Fire Damper Listing (#3225-1417:102)
New York City (MEA listing #215-99-E)
Single Section
Maximum Section (WxH)
Maximum Duct Size (WxH)
Minimum Diameter
Maximum Diameter
Vertical 60"x60" 120"x120" 3" 52"
Horizontal 60"x60" 60"x60" 3" 52"
Note: Damper supplied 1/4"less than order Width and Height.
231 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@bellsouth.net
B1, 4/F., Luen Ming Hing Factory Building 36 Mok Cheong St., To Kwa Wan, Kowloon, H. K.
Tel: 852-2760-4188 Fax: 852-2760-4177
Email: tatanlexyim@lloydasia.com
Website: www.firedamper.com
*ALL STATED SPECIFICATIONS ARE SUBJECT TO UPDATE WITHOUT NOTICE OR OBLIGATION.
129
Lloyd Industries Inc. 2013

VERIFY WITH MANUFACTURER THE ACCEPTABILITY OF THIS PRODUCT WITH THE INSTALLATION AND APPLICATION PRIOR TO ORDERING. INSTALLATION SHALL BE AS PER THE MANUFACTURERS RECOMMENDATIONS.

B / M1.1 STATIC FIRE DAMPER DETAIL
SCALE: NTS — 1 HR SHEETROCK CEILING



LLOYD INDUSTRIES INC.
COMBINATION FIRE SMOKE DAMPER
MODELS: FSD-111-2-PB
APPLICATION
The FSD-111-2PB is a Lloyd's class 2 low leakage, 1-1/2HR combination fire & smoke damper with 3 "V" blades. The FSD-111-2PB can be installed vertically or horizontally in HVAC systems and is rated for airflow and leakage in either direction. The FSD-111-2PB has been qualified with velocities to 2000 fpm and pressures to 4.0 in. w.g.
STANDARD CONSTRUCTION
RATINGS
Fire rating: 1-1/2 Hours
Low leakage: Class 2
Installations: Vertical/ Horizontal
Maximum velocity: 2000fpm
Maximum static pressure: 4.0" W.G.
Temperature rating: 250°F/350°F
Operation rating: Power open/ Spring closure
UL CLASSIFIED: UL 555 &UL 555S
Model FSD-111-2-PB meets the requirements for fire dampers, smoke dampers and combination fire smoke dampers established by:
CSFM California State Fire Marshal
Fire Damper Listing (#3225-1417:102)
Leakage (Smoke) Damper Listing (#3230-1417:103)
New York City (MEA listing #215-99-E)
British Standard (BS – 476 Part 20)
Performance testing by AMCA International (AMCA STD 500)
HKFM Hong Kong fire Marshal Approval
OPTIONAL MATERIAL:
Stainless steel construction
ACTUATOR:
Specify type: Electric or Pneumatic
Specify brand: HONEYWELL, BELIMO, SIEMENS
Specify mounting: External or internal
Specify voltage: 24V, 120V, 220V
Single Section
Multiple Section
Minimum Size (WxH)
Maximum Size (WxH)
Maximum Size (WxH)
8"x8" 36"x36" 30"x48" 72"x72"
Vertical mount parallel blade damper shown
Used with fusible links 165°F
231 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
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4
Lloyd Industries Inc. 2013

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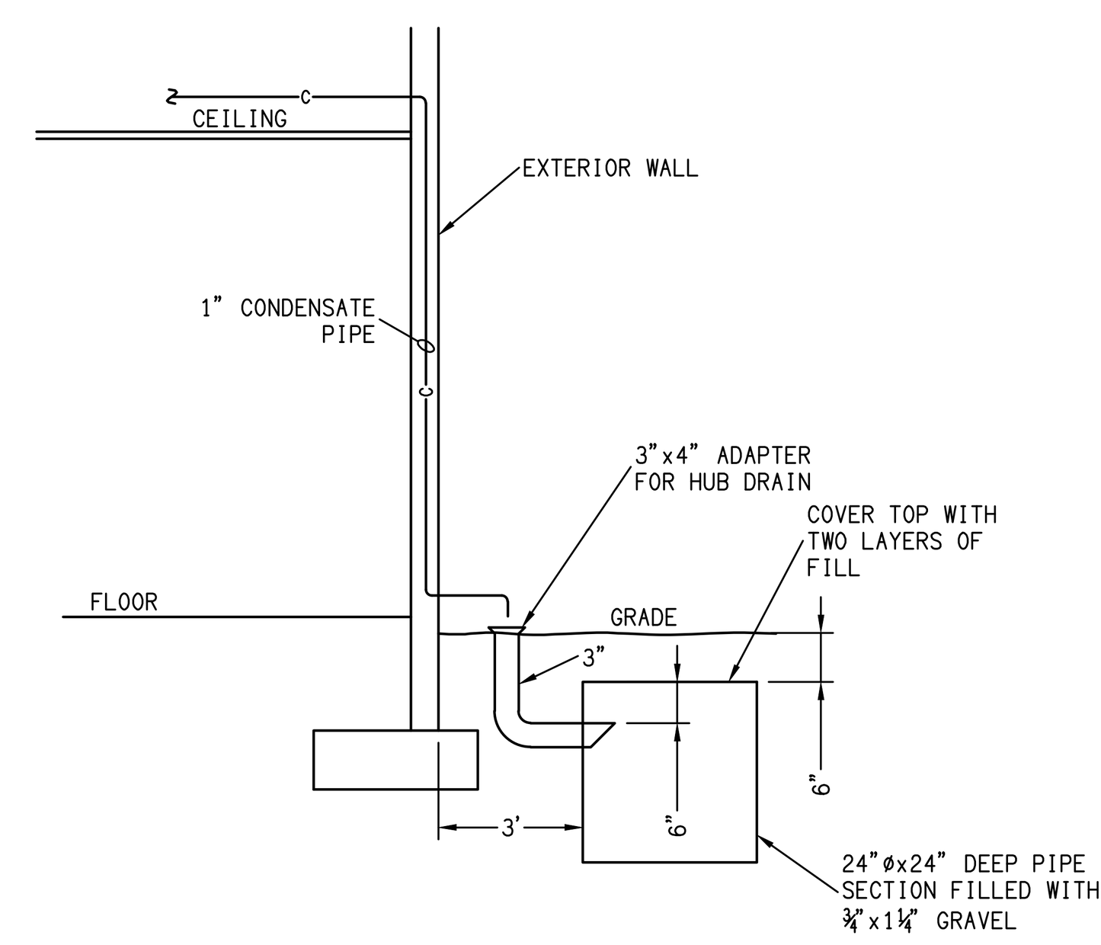
C / M1.1 1-1/2 HR FIRE-SMOKE DAMPER DETAIL
SCALE: NTS — 2 HR FIREWALL/SMOKE BARRIER

DUCTLESS SPLIT SYSTEM UNIT SCHEDULE - IT ROOM (A/C ONLY)

COOLING CAP (TONS)	AIR HANDLER		OUTSIDE UNIT		MFG	VOLT	PHASE	FUSE	SEER	HSPF	REMARKS
	SYMBOL	MODEL	SYMBOL	MODEL							
1 TON	DAHU-1	PKA-A12HA7	DAC-1	PUY-A12KA7	MITSUBISHI	208	1	15/2	20.8	10.2	-
1 TON	DAHU-2	PKA-A12HA7	DAC-2	PUY-A12KA7	MITSUBISHI	208	1	15/2	20.8	10.2	-

NOTES:
1. PROVIDE CONCRETE PAD.
2. VERIFY WITH THE IT CONTRACTOR THAT THE 1 TON UNIT HAS SUFFICIENT CAPACITY TO COOL THE IT SYSTEMS BEFORE ORDERING EQUIPMENT.



D / M1.1 FRENCH DRAIN DETAIL
SCALE: NONE

ARCHITECTURAL CONCEPTS INC
2401 WEST BAY DRIVE, SUITE 503, LARGO, FL 33770
Phone 727.524.7170 Fax 727.524.4319 Qualifier FL License: AR0012623

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 007138 DAVID B. SIMS
03/25/2022

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SHEET DESCRIPTION:
MECHANICAL SCHEDULES

PROJECT NO. DSA-21122
SCALE: AS NOTED
DRAWING NO. M1.1

KEY NOTES

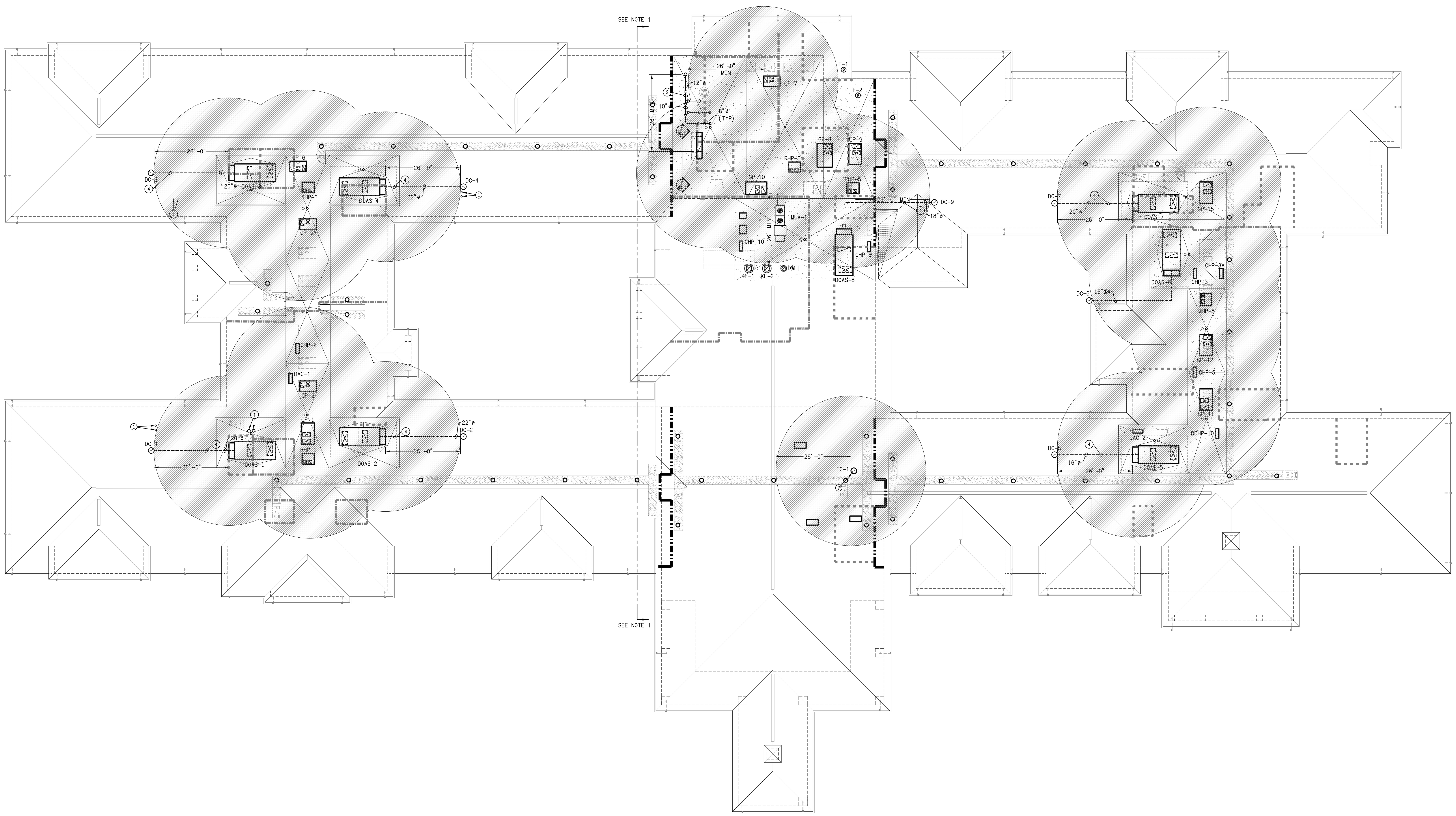
1. 4" DRYER DISCHARGE ROOF METAL CAPS WITH BACKDRAFT DAMPER.
2. ROUTE DRYER VENTS ACROSS ROOF. VERIFY WITH DRYER MANUFACTURER FOR ENLARGING THE SINGLE DUCT CHANGES TO 10"ø AND 12"ø DUCT AS NEEDED TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS.
3. FOR DRYER FRESH AIR INTAKE, SEE C/M2.5.
4. ROUTE DISCHARGE DUCT THROUGH ATTIC
5. FRESH AIR INTAKE DUCT FOR DOAS-K ROUTED ACROSS ROOF.
6. INTAKE TO IC-1 SHALL BE 3'-0" ABOVE THE ROOF.
7. ROUTE 10"ø DUCT TO AHU-1.
8. ROUTE DISCHARGE DUCT ACROSS ROOF.

NOTES:

1. ON THE SKILLED NURSING AND COMMONS AREAS, FRESH AIR MAKE UP LOCATIONS SHALL BE A MINIMUM OF 26' FROM DISCHARGE AIR POINTS AND PLUMBING VENTS. FOR MEMORY CARE AND ASSISTED LIVING THE DISTANCE SHALL BE 11'.

LEGEND

CLEARANCE REQUIRED FOR FRESH AIR INTAKE. NO PLUMBING VENTS OR AIR DISCHARGE ALLOWED IN THESE AREAS.



A/M2.0 MECHANICAL ROOF PLAN
SCALE: 1/16" = 1'-0"

ARCHITECTURAL CONCEPTS INC
2401 WEST BAY DRIVE, SUITE 503, LARGO, FL 33770
Phone 727.584.7178 Fax 727.584.4319 Qualifier FL License: AR0012633

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 007138 DAVID B. SIMS, JR.
03/25/2022

DS ENGINEERING
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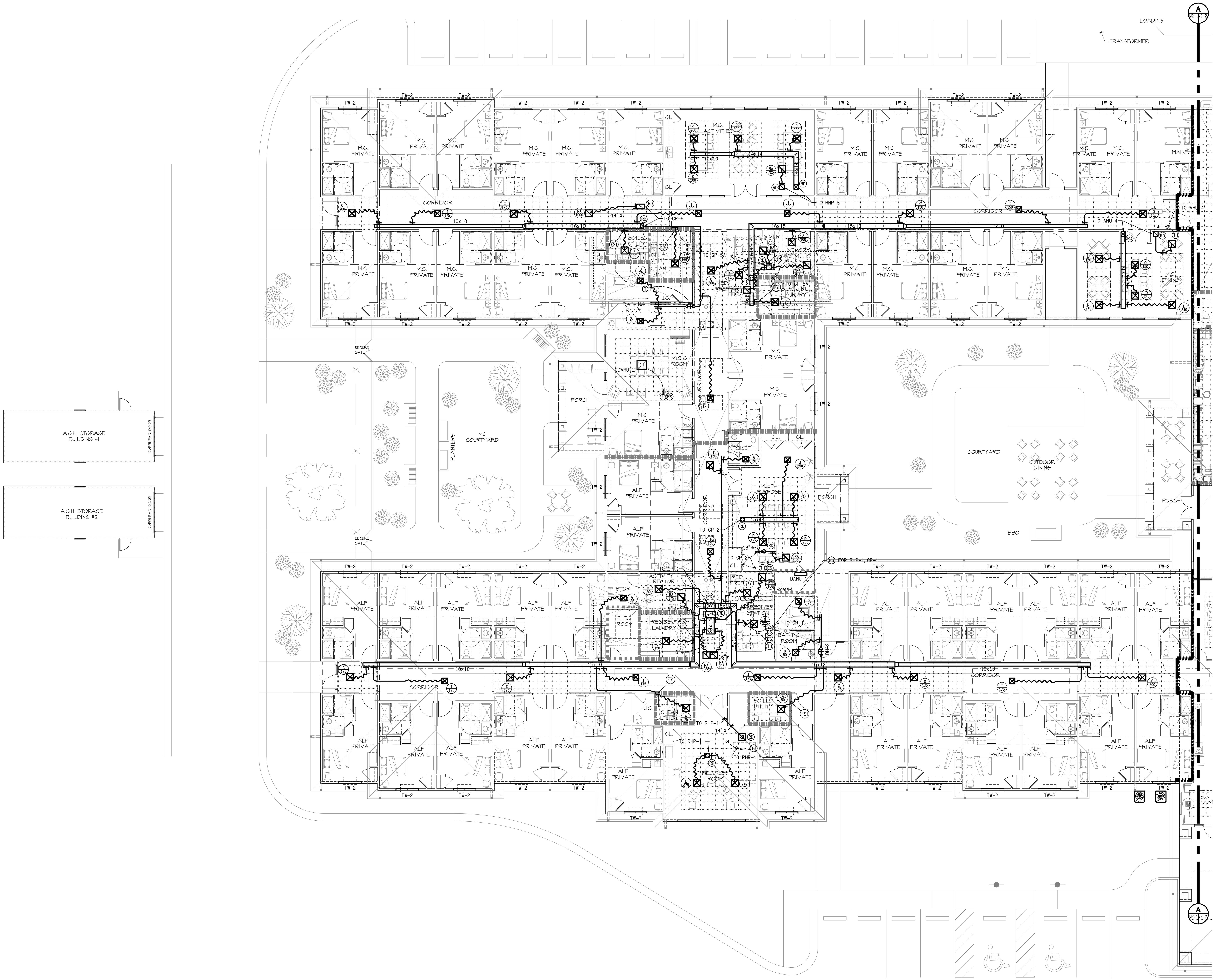
SHEET DESCRIPTION:

MECHANICAL ROOF PLAN

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

M2.0



A M2.1 MECHANICAL PLAN
SCALE: 3/32" = 1'-0"

NOTES:
1. PROVIDE RADIATION DAMPER WHERE DUCT PENETRATES THE RATED CEILING.

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2401 WEST BAY DRIVE, SUITE 503, LARGO, FL 33770
Phone 727.584.7178 Fax 727.584.4319 Qualifier FL License: AR0012633

NORTH CAROLINA PROFESSIONAL SEAL 007138 ENGINEER DAVID B. SIMS, JR.
03/25/2022

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CONSULTING ENGINEERS
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910.791.8016
NC License: C-1150
www.dsaeng.com

PROPOSED:

LEO BROWN GROUP

THE EMBASSY AT MOREHEAD CITY

A NEW SKILLED NURSING, MEMORY CARE, & ASSISTED LIVING FACILITY

3822 GALANTIS DRIVE
MOREHEAD CITY, NC 28557

PUBLICATION	DATE
CONCEPT:	
SCHEMATIC DESIGN:	07-16-21
PRELIMINARY DESIGN:	07-01-21
DESIGN DEVELOPMENT:	09-01-21
PERMIT SET:	03-25-22
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FOR CONSTRUCTION:	
REVISIONS:	

PLOT DATE: 3/25/2022 4:08:08 PM

FILE LOCATION: F:\PROJECTS\2021\21122\DRAWINGS\21122m2.1.dwg

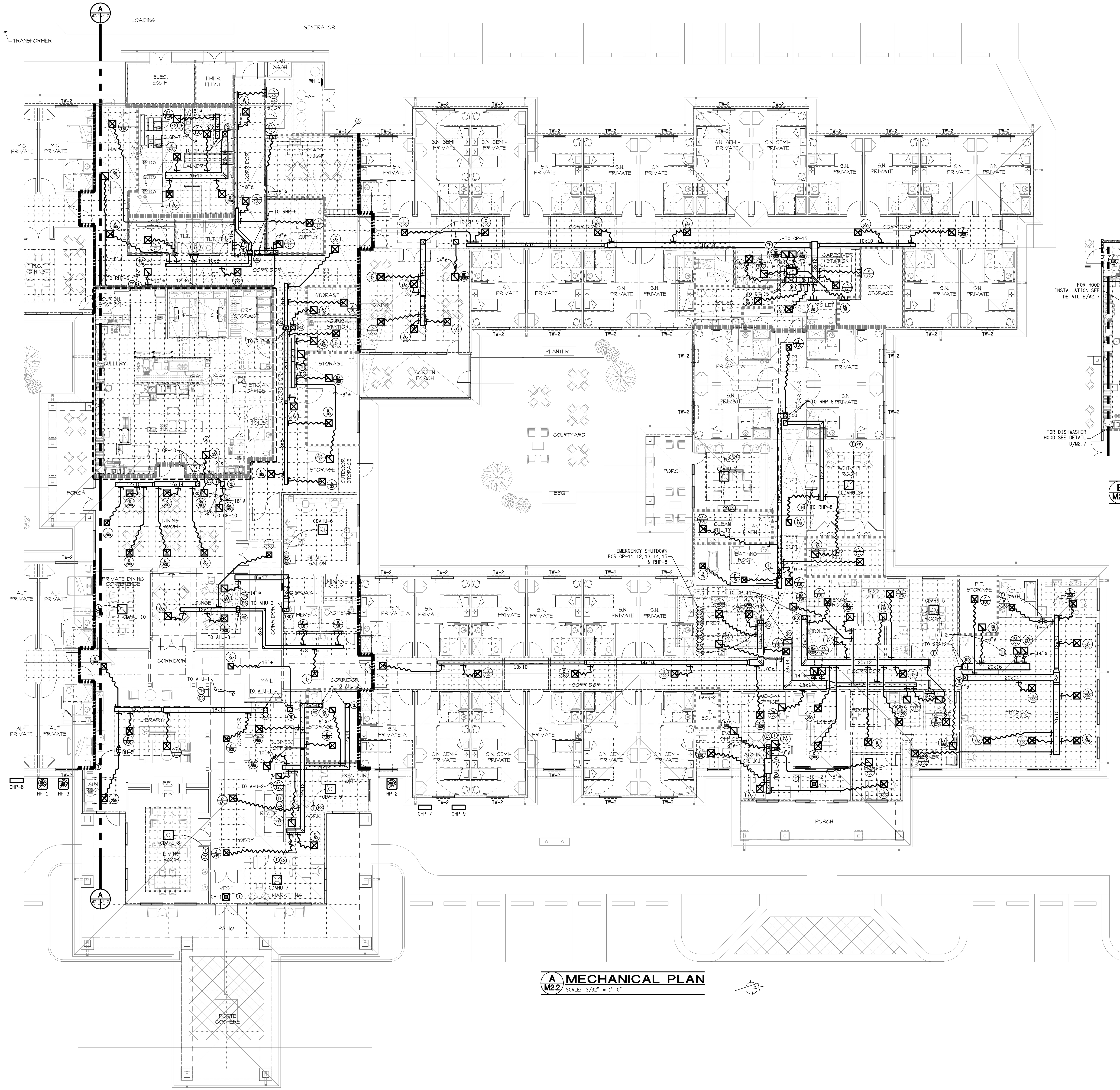
SHEET DESCRIPTION:

LARGE SCALE MECHANICAL PLAN

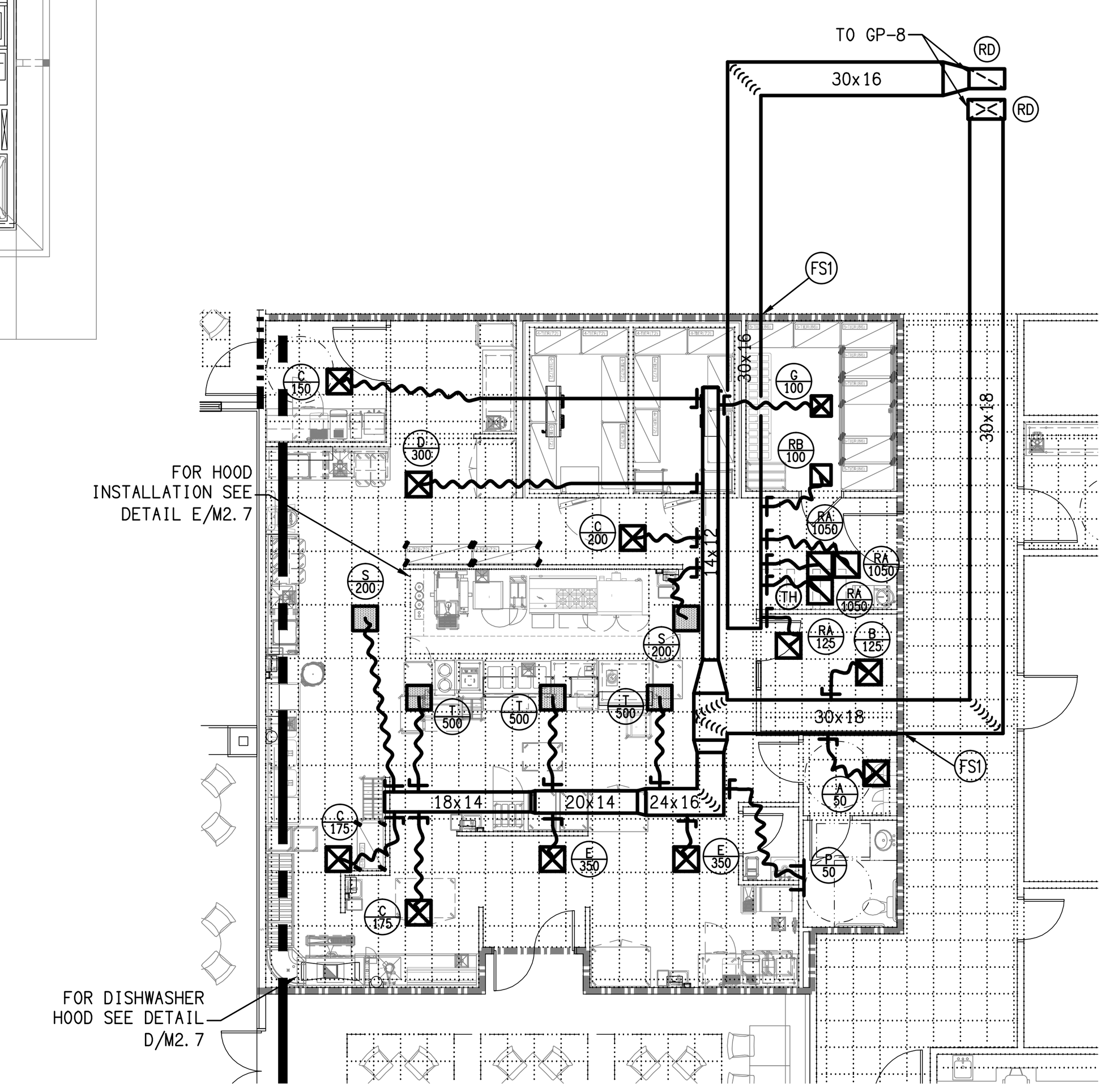
PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

M2.1



A / M2.2 MECHANICAL PLAN
SCALE: 3/32" = 1'-0"



B / M2.2 KITCHEN, CORR 115, OFF 116, 117 & 118
SCALE: 3/32" = 1'-0"

KEY NOTES:

1. AHU LOCATED IN ATTIC. COORDINATE WITH THE G.C. FOR THE RATED CEILING AND PROVIDE RADIATION DAMPERS WHERE PENETRATIONS TAKE PLACE. PROVIDE RADIATION DAMPER AT GRILLE IF GRILLE IS IN RATED CEILING.
2. TRANSFER GRILLE.
3. OPEN FRESH AIR MAKE UP DAMPER.

NOTES:

1. PROVIDE RADIATION DAMPER WHERE DUCT PENETRATES THE RATED CEILING.

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FILE LOCATION: F:\PROJECTS\2021\21122\DRAWINGS\21122m2.1.dwg

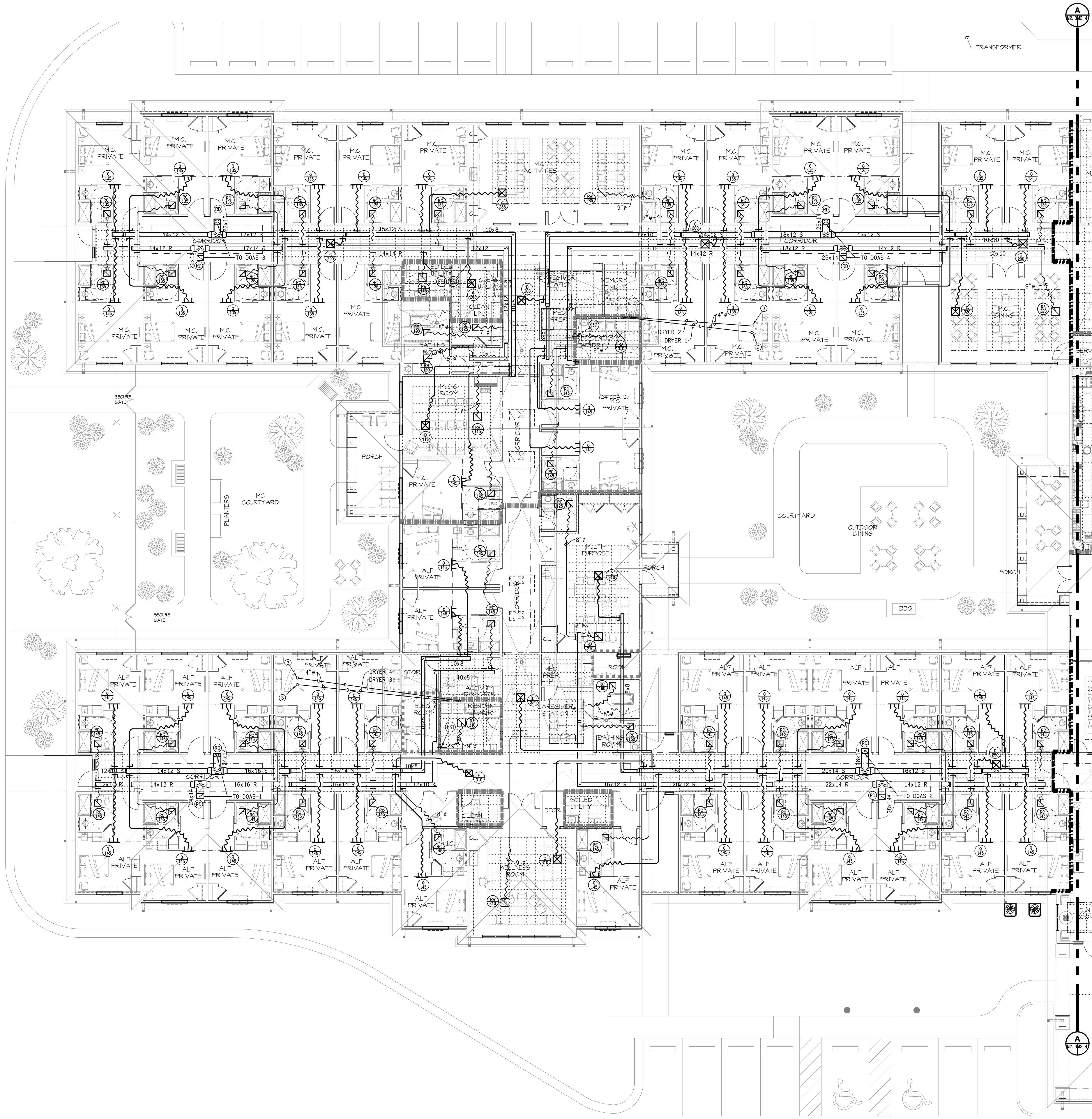
SHEET DESCRIPTION:

LARGE SCALE MECHANICAL PLAN

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

M2.2



A / M2.3 VENTILATION PLAN
SCALE: 3/32" = 1'-0"

KEY NOTES:

1. CONNECT TO CEILING MOUNTED AHU AND PROVIDE 50 CFM EACH.
2. ROUTE 10"ø DUCT TO DISCHARGE CAP DC-8 ON ROOF. PROVIDE RADIATION DAMPER AT RATED CEILING.
3. ROUTE 4"ø DRYER VENT DUCT TO DISCHARGE CAPS LOCATED ON ROOF.

GENERAL NOTES:

1. IN PATIENT ROOMS USE 7"ø DUCT TO CONNECT TO "RC" AND "Q" GRILLES.
2. PROVIDE RADIATION DAMPER WHERE DUCT PENETRATES THE RATED CEILING.
3. DRYER DUCT INSTALLATION:
   - A. INSTALL PER DETAIL A/M2.7 AND B/M2.7.
   - B. POST EQUIVALENT LENGTH (EL) FOR EACH DRYER.
     - DRYER 1 = 53' EL
     - DRYER 2 = 50' EL
     - DRYER 3 = 57' EL
     - DRYER 4 = 54' EL

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REVISIONS:	

PLOT DATE: 3/25/2022 4:09:39 PM

FILE LOCATION: F:\PROJECTS\2021\21122\DRAWINGS\21122m2.1.dwg

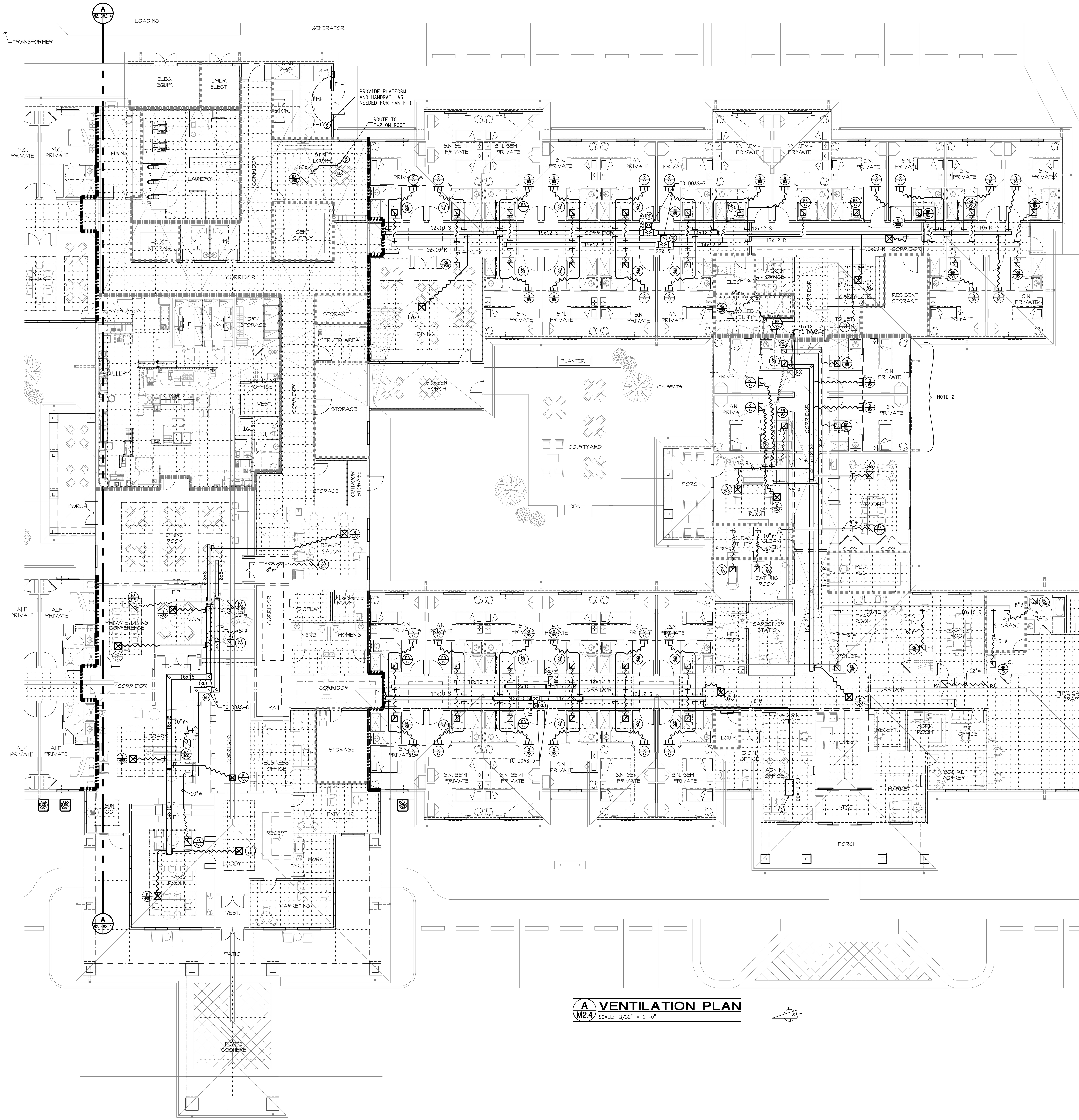
SHEET DESCRIPTION:

LARGE SCALE VENTILATION PLAN

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

M2.3



A / M2.4 — VENTILATION PLAN
SCALE: 3/32" = 1'-0"

KEY NOTES:

1. FOOD PREP - FEED EACH CDAHU 50 CFM.
2. DDAHU-10 - PROVIDE 50 CFM.

NOTES:

1. DUCT SERVING THE PATIENT ROOMS SHALL BE 6"ø FLEX FOR BOTH GRILLE "RB" AND "Q".
2. IN FOUR PATIENT ROOMS, BALANCE AIR FLOW AT GRILLE.
3. PROVIDE A RADIATION DAMPER WHERE THE DUCT PENETRATES THE RATED CEILING.

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3/25/2022 4:11:02 PM

FILE LOCATION:
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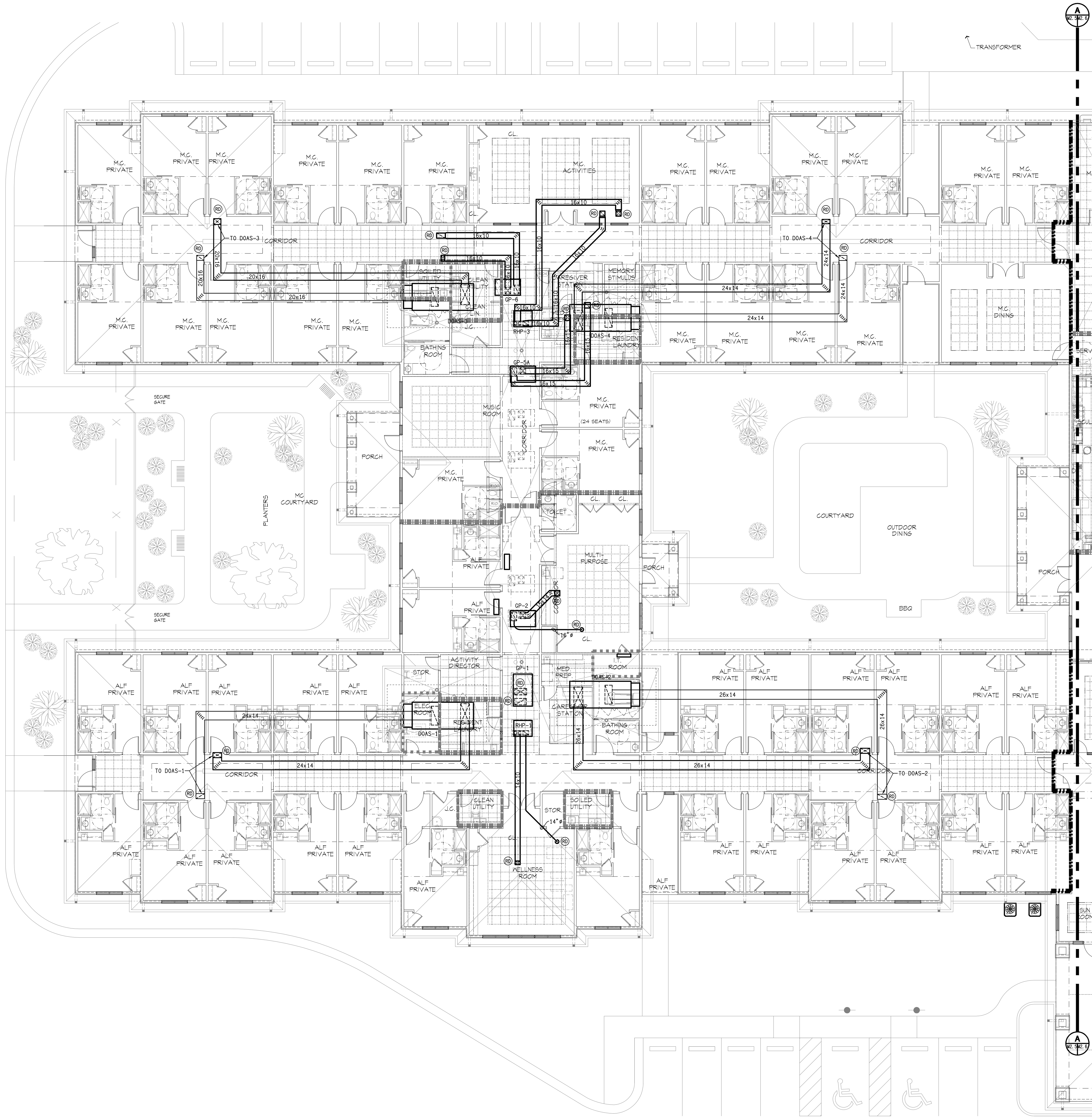
SHEET DESCRIPTION:

LARGE SCALE VENTILATION PLAN

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

M2.4



A ATTIC MECHANICAL PLAN
M2.5
SCALE: 3/32" = 1'-0"

NOTES:

1. HVAC UNITS ARE LOCATED ON THE ROOF.
2. DUCT SHOWN RUNS THROUGH THE ATTIC.
3. PROVIDE RADIATION DAMPER WHERE DUCT PASSES THROUGH 1ST FLOOR RATED CEILING.

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REVISIONS:	

PLOT DATE:
3/25/2022 4:13:29 PM

FILE LOCATION:
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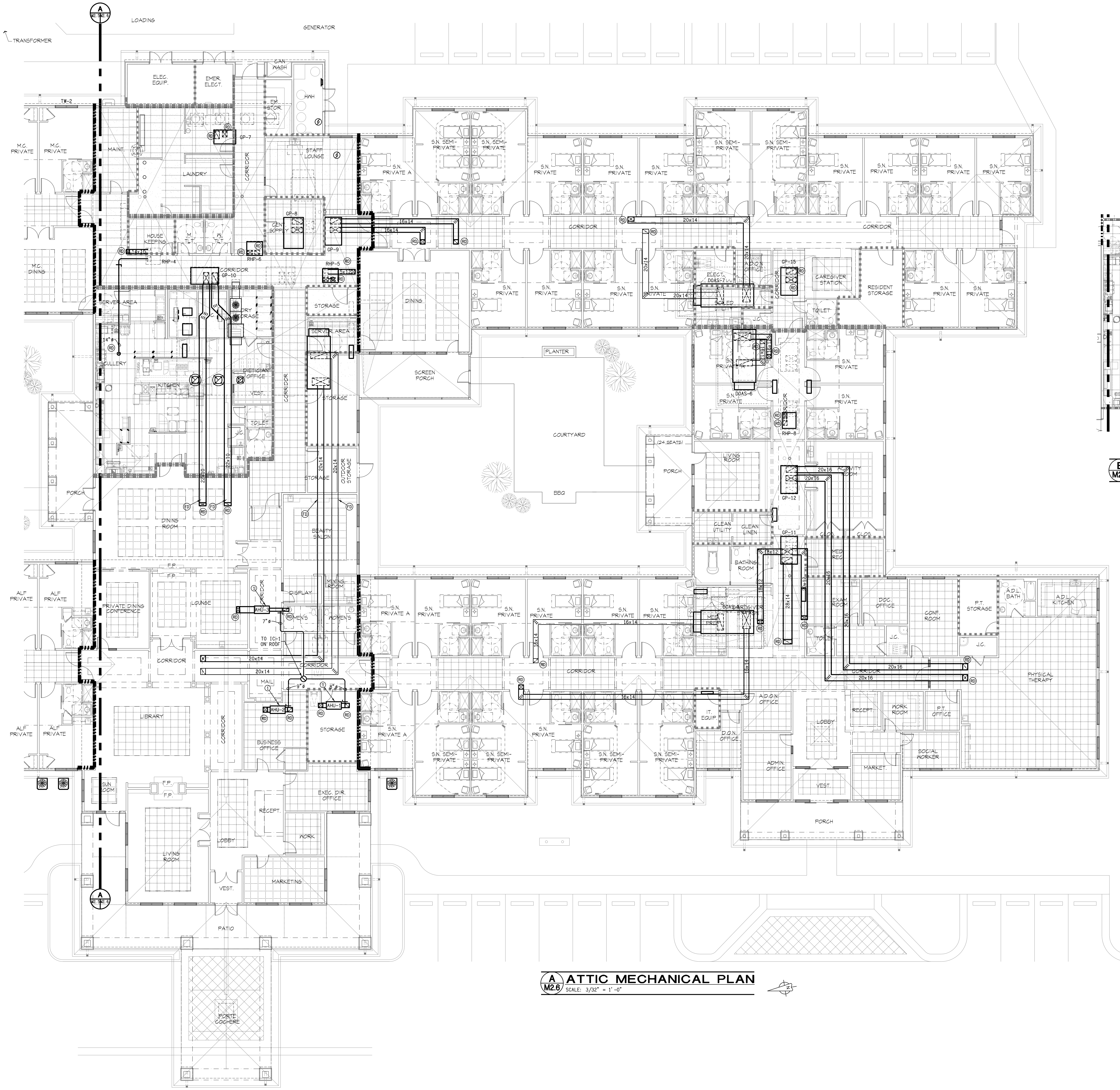
SHEET DESCRIPTION:

ATTIC MECHANICAL PLAN

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.

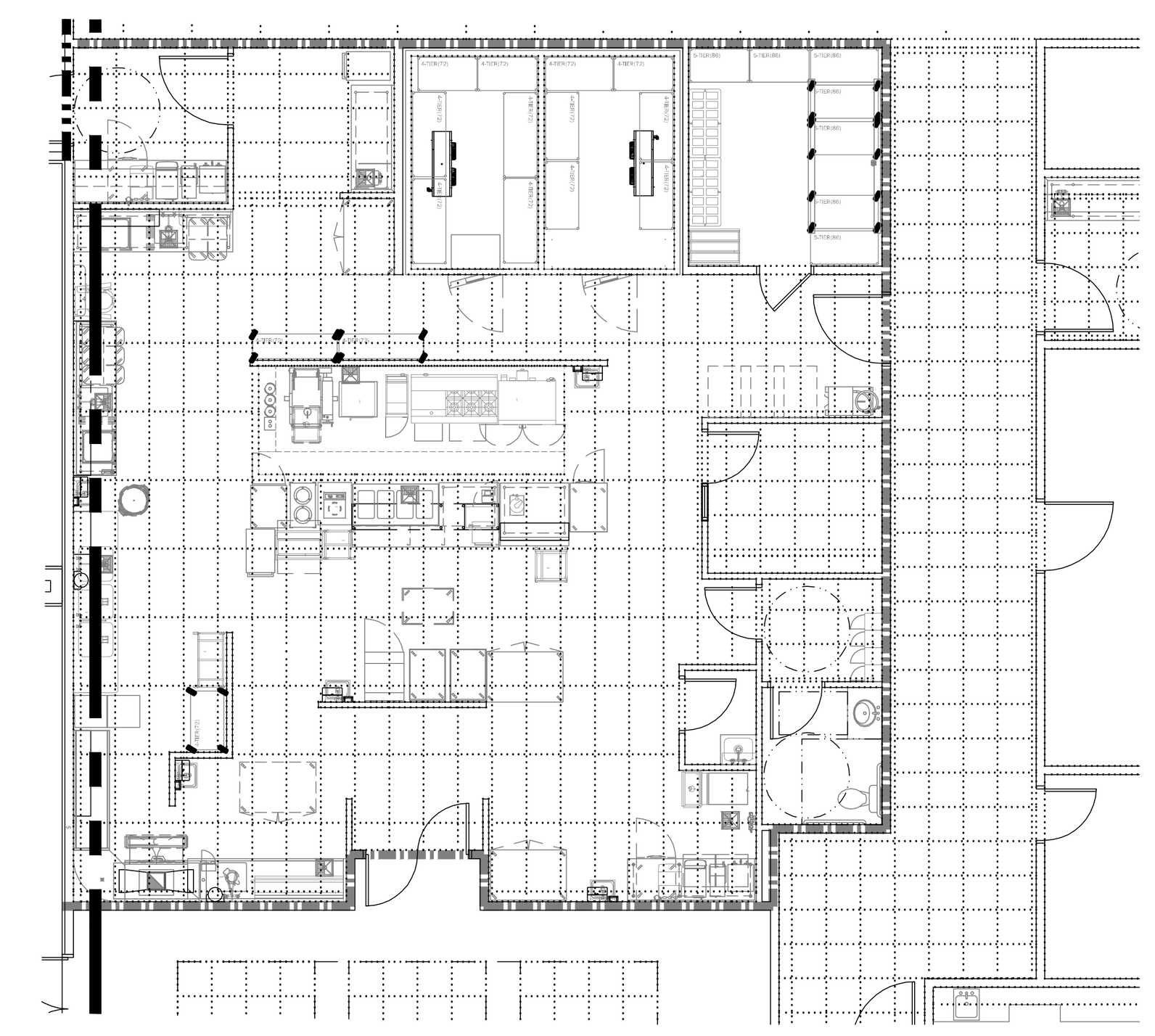
M2.5



A
M2.6

ATTIC MECHANICAL PLAN

SCALE: 3/32" = 1'-0"



B
M2.6

KITCHEN, CORR 115, OFF 116, 117 & 118

SCALE: 3/32" = 1'-0"

NOTES:

1. HVAC UNITS ARE LOCATED ON THE ROOF.
2. DUCT SHOWN RUNS THROUGH THE ATTIC.
3. PROVIDE RADIATION DAMPER WHERE DUCT PASSES THROUGH 1ST FLOOR RATED CEILING.

KEY NOTES:

(1) AHU LOCATED IN ATTIC. COORDINATE WITH THE G.C. FOR THE RATED CEILING AND PROVIDE RADIATION DAMPERS WHERE PENETRATIONS TAKE PLACE. PROVIDE RADIATION DAMPER AT GRILLE IF GRILLE IS IN RATED CEILING.

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SHEET DESCRIPTION:

ATTIC MECHANICAL PLAN

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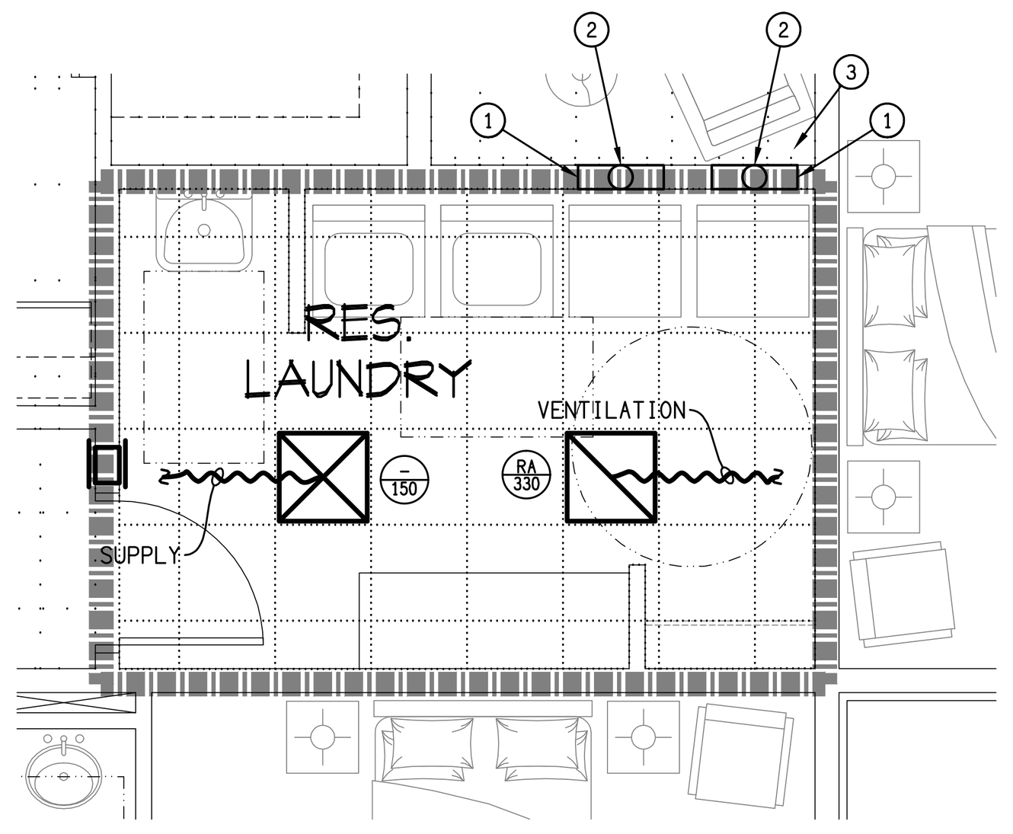
DRAWING NO.

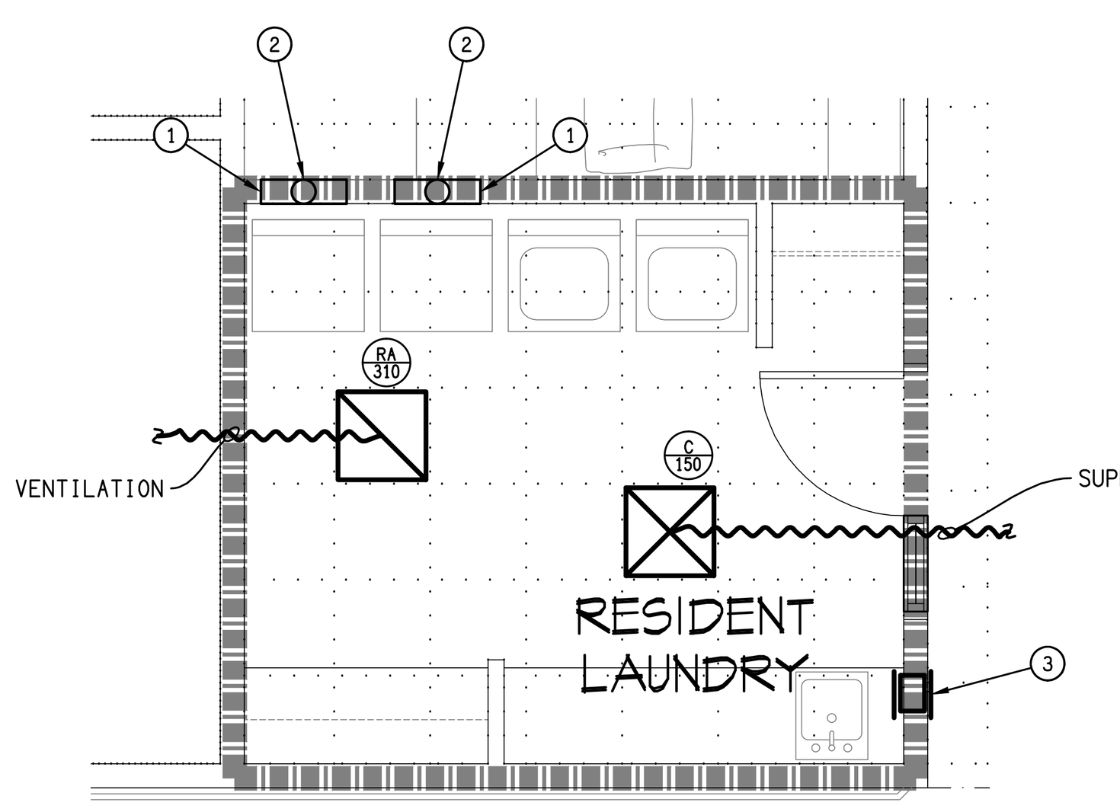
M2.6



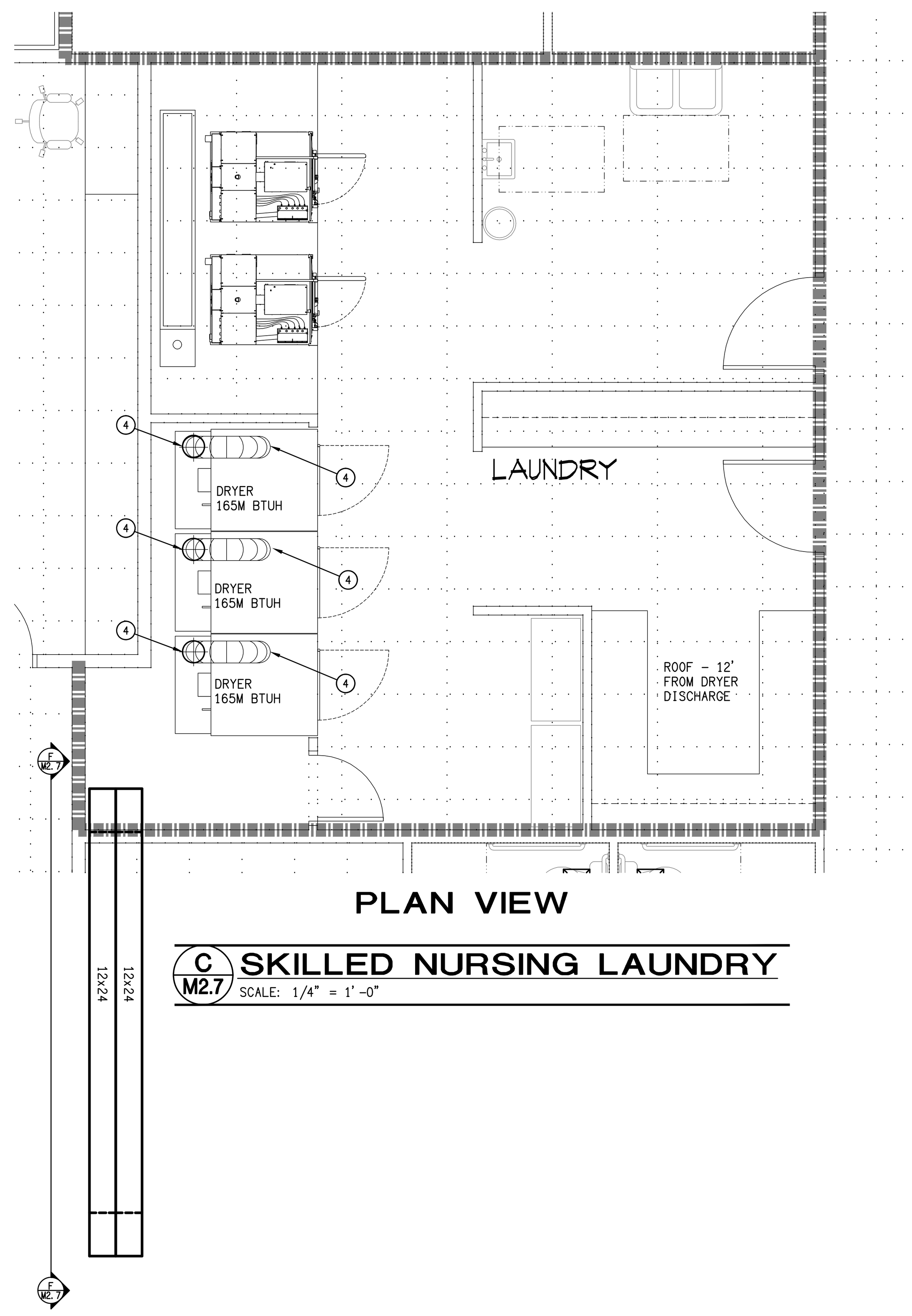
A M2.7 RESIDENT LAUNDRY - MC
SCALE: 1/4" = 1'-0"

KEY NOTES

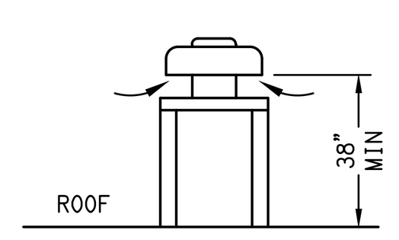
1. PROVIDE WALL RECESSED 4"ø DRYER CONNECTION.
2. ROUTE 4"ø DUCT TO ROOF & PROVIDE ROOF DISCHARGE CAP WITH BACKDRAFT DAMPER. WRAP DUCT IN UL APPROVED DUCT WRAP IN ATTIC SPACE.
3. TRANSFER GRILL. SET 6" BELOW CEILING. PROVIDE 14"x14" RETURN AIR GRILLE ON EACH SIDES
4. 8" DRYER VENTS. ROUTE TO ROOF THROUGH ATTIC WITH 1 HR FIRE WRAP OR EQUAL.
5. FRESH AIR & COMBUSTION AIR FOR DRYERS
6. PROVIDE 12"x24" OPENING WITH BIRD SCREEN WITHIN 12" OF THE CEILING.
7. PROVIDE 12"x24" OPENING WITH BIRD SCREEN WITHIN 12" OF THE FLOOR.
8. PROVIDE 1HR FIRE WRAP OR EQUAL IN THEE CEILING CAVITY.



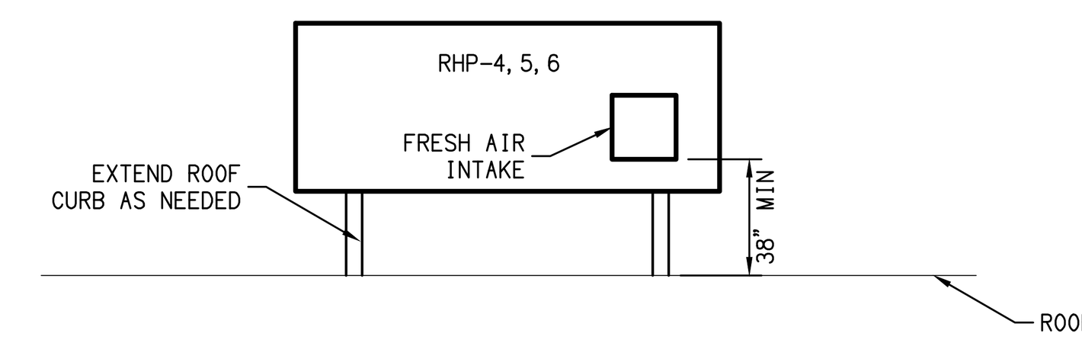
B M2.7 RESIDENT LAUNDRY - ALF
SCALE: 1/4" = 1'-0"



C M2.7 SKILLED NURSING LAUNDRY
SCALE: 1/4" = 1'-0"

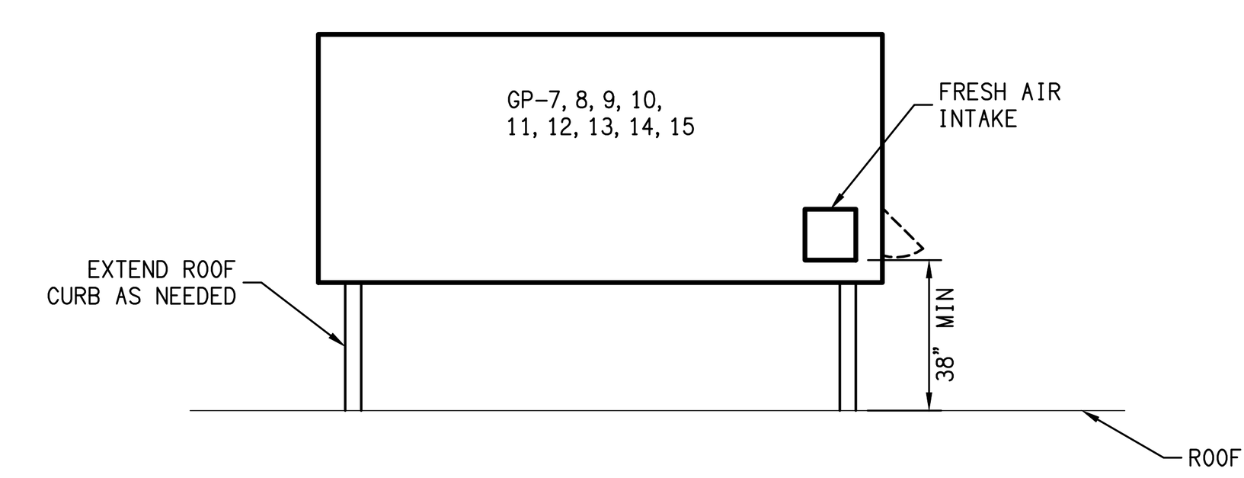


K M2.7 AIR INTAKE HOOD
NTS

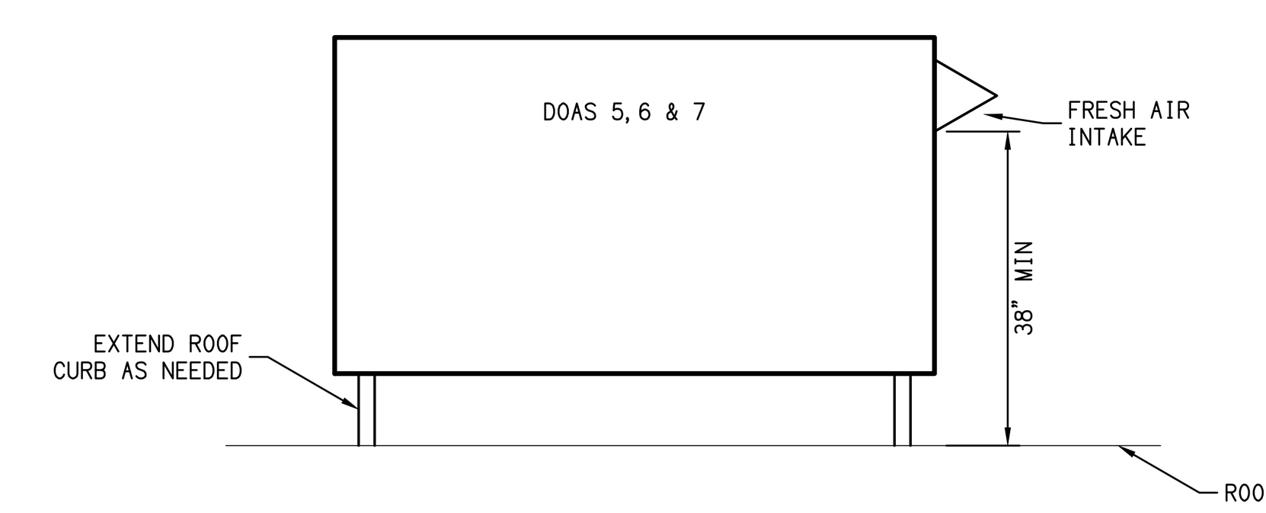


FRESH AIR NOTES:
1. EXCEPT FOR THE KITCHEN HOOD, ALL FRESH AIR INTAKES SHALL BE 38" MINIMUM FROM ROOF.

J M2.7 RHP SNF INSTALLATION HEIGHT
NTS



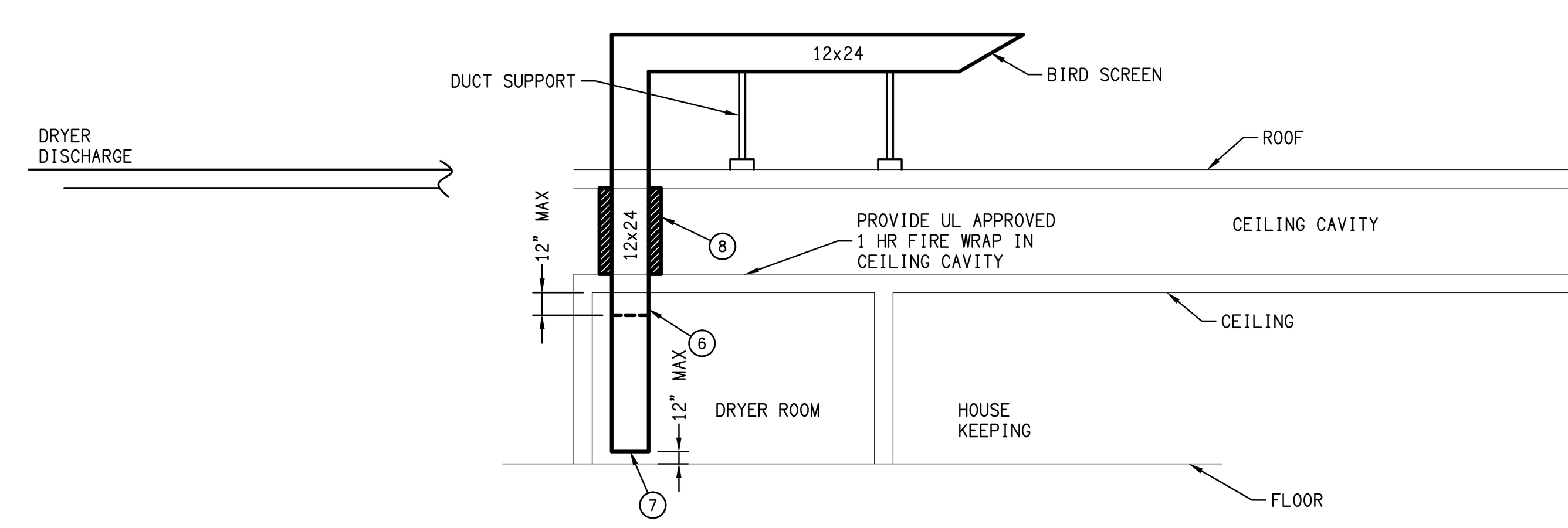
H M2.7 GP SNF INSTALLATION HEIGHT
NTS



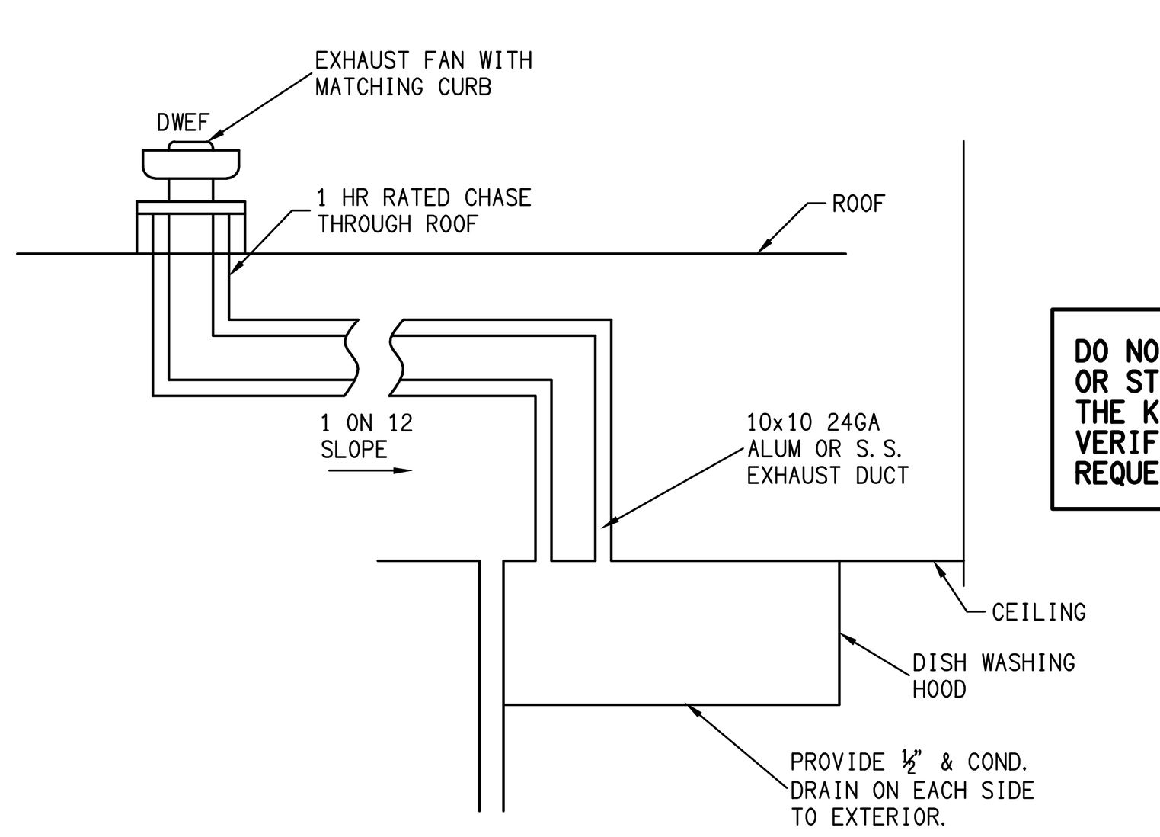
I M2.7 DOAS SNF INSTALLATION HEIGHT
NTS

FAN SCHEDULE EQUIPMENT PROVIDED BY CAPTIVEAIRE FOR KITCHEN									
SYMBOL	DESCRIPTION	CFM	S.P. (")	VOLT	PHASE	HP	AMPS	MOUNTING	REMARKS
KEF-1	HOOD DISCHARGE	2000	1¼	208	3	1.5	5.6	ROOF	–
KEF-2	HOOD DISCHARGE	2000	1¼	208	3	1.5	5.6	ROOF	–
MAU-1	MAKE UP	3200	0.6	208	3	3	8.5	ROOF	–
DWEF	DISHWASHER VENT	600	¾"	120	1	1/3	4.3	ROOF	–

NOTES:
1. VERIFY ALL ELECTRICAL CONNECTIONS.
2. INTERLOCK THE DISHWASHER FAN TO RUN ONLY WHEN THE DISHWASHER IS RUNNING.



F M2.7 SECTION FOR FRESH AIR & COMBUSTION AIR DUCT
NTS

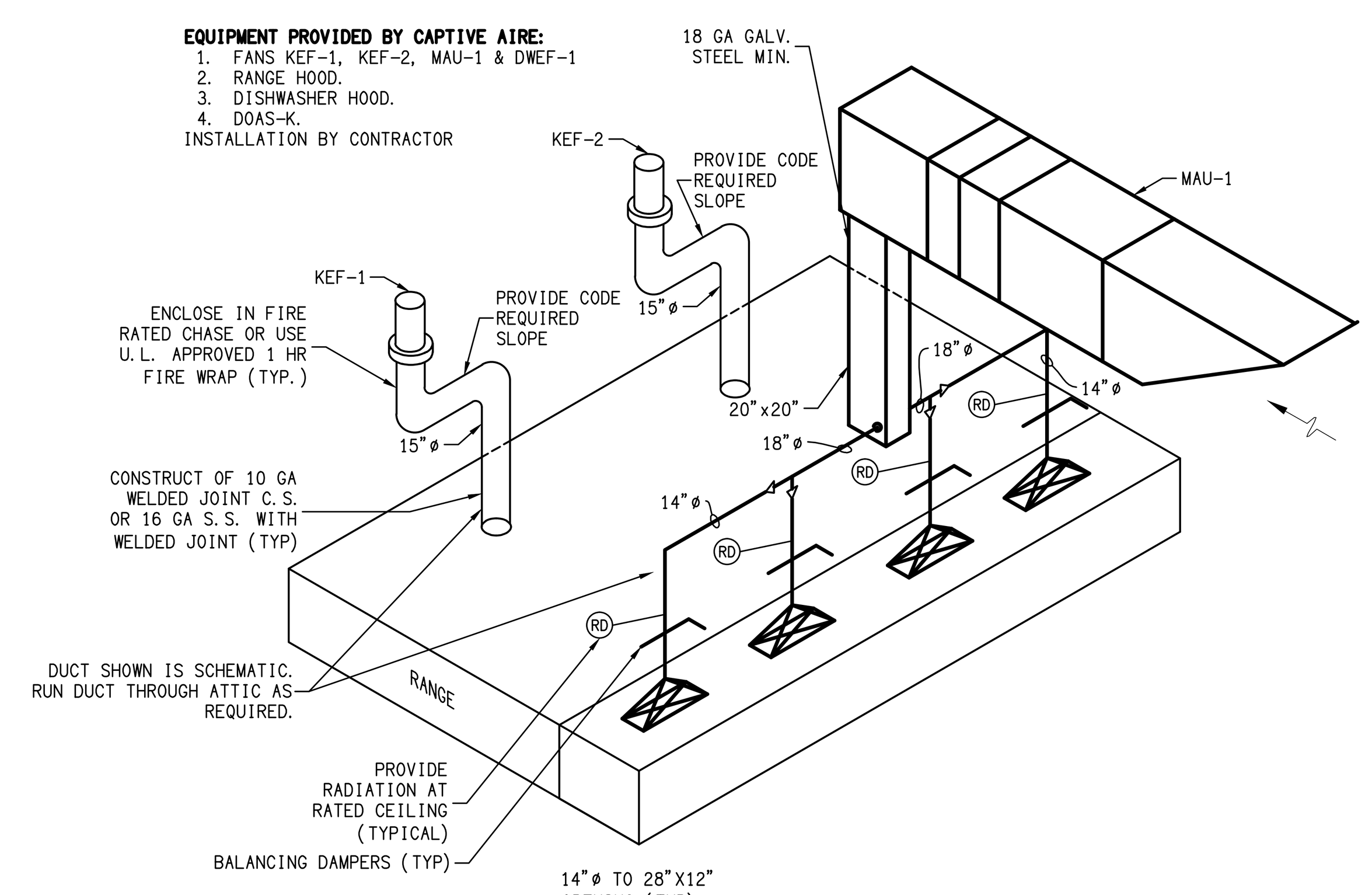


DO NOT ORDER EQUIPMENT OR START WORK UNTIL THE KITCHEN CONTRACTOR VERIFIES THE EQUIPMENT REQUESTED & DUCT SIZE

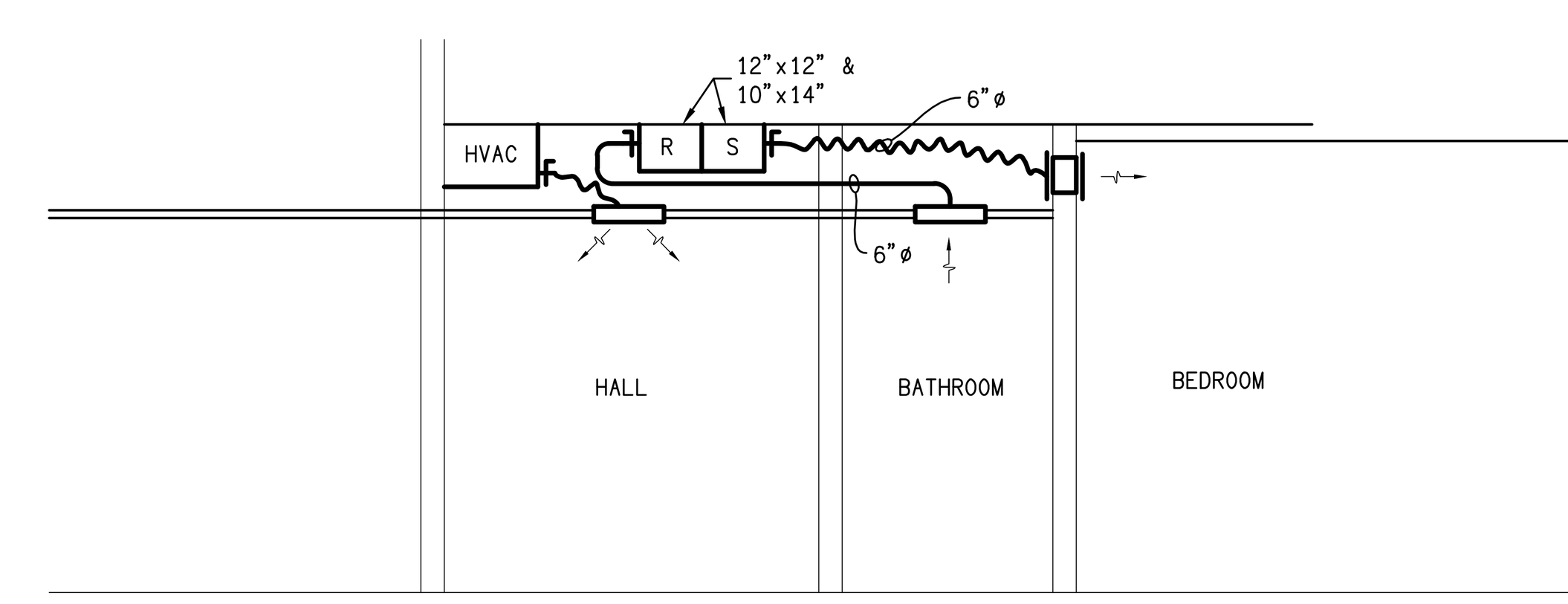
D M2.7 DISHWASHER EXHAUST HOOD
SCALE: NTS

EQUIPMENT PROVIDED BY CAPTIVE AIRE:
1. FANS KEF-1, KEF-2, MAU-1 & DWEF-1
2. RANGE HOOD.
3. DISHWASHER HOOD.
4. DOAS-K.

INSTALLATION BY CONTRACTOR



E M2.7 KITCHEN EXHAUST HOOD
SCALE: NTS



G M2.7 FRESH AIR SUPPLY & RETURN TO PATIENT ROOM - SECTION
SCALE: NTS

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SHEET DESCRIPTION:
ENLARGED LAUNDRY PLANS

PROJECT NO.	SCALE:
DSA-21122	AS NOTED

DRAWING NO.
M2.7