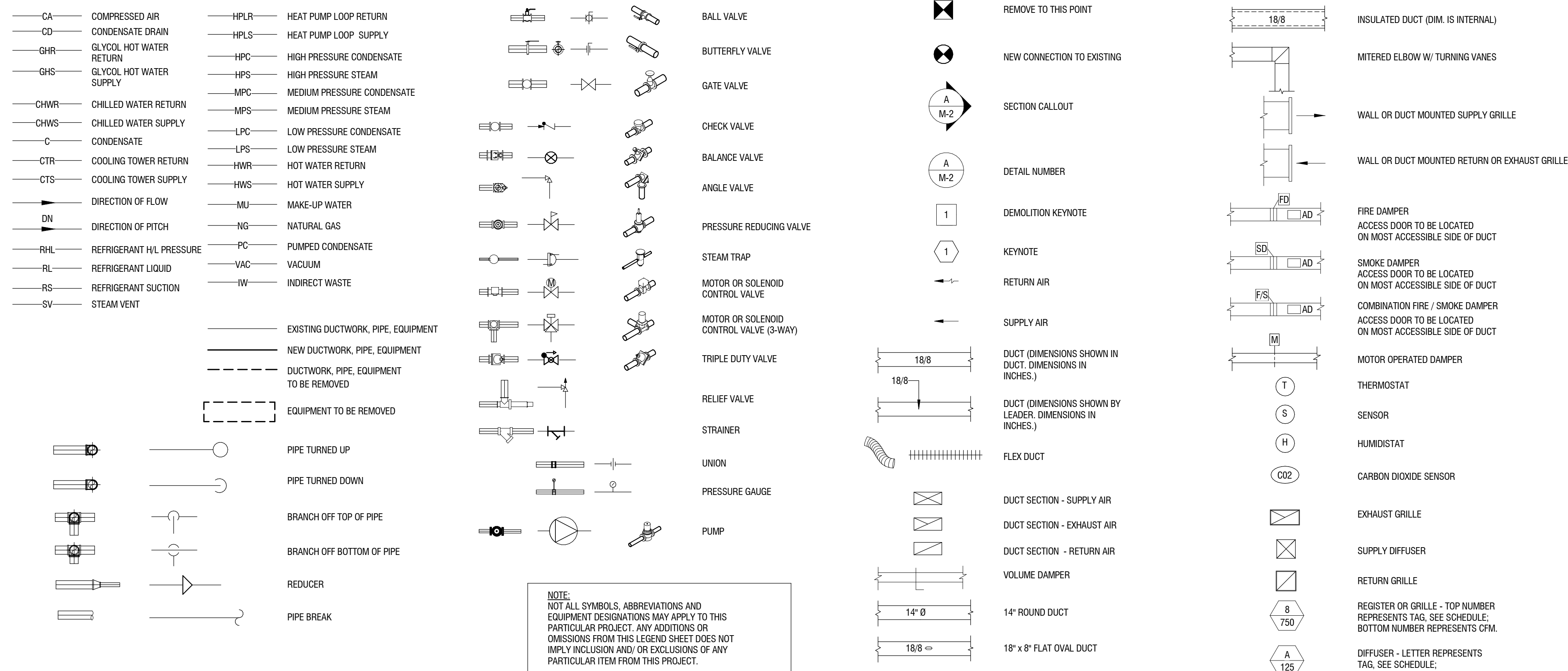


DRAWING SYMBOLS



APPLICABLE CODES

- 2018 NORTH CAROLINA BUILDING CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2018 NORTH CAROLINA FIRE CODE
- 2018 NORTH CAROLINA PLUMBING CODE
- 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
- 2017 NATIONAL ELECTRIC CODE
- 2016 NFPA 13

EQUIPMENT DESIGNATIONS

ACU	AIR CONDITIONING UNIT	HC	HEATING COIL
AHU	AIR HANDLING UNIT	HP	HEAT PUMP
AD	ACCESS DOOR	HU	HUMIDIFIER
AS	AIR SEPARATOR	HWP	HOT WATER PUMP
BDD	BACK DRAFT DAMPER	HX	HEAT EXCHANGER
B	BOILER	L	LOUVER
CA	AIR COMPRESSOR	MAU	MAKE UP AIR UNITS
CAV	CONSTANT AIR VOLUME BOX	MD	MOTORIZED DAMPER
CC	COOLING COIL	P	PUMP
CFP	CHEMICAL FEED PUMP	PHC	PREHEAT COIL
CH	CHILLER	PPU	PUMPING PACKAGE UNIT
CHP	CHILLED WATER PUMP	PRG	GAS PRESSURE REGULATOR
CP	CONDENSATE PUMP	PRV	PRESSURE REDUCING VALVE
CRAC	COMPUTER ROOM UNIT	R	REGISTER
CRU	CONDENSATE RETURN UNIT	RCP	RADIANT CEILING PANEL
CT	COOLING TOWER	RTU	ROOF TOP UNIT
CU	CONDENSING UNIT	UH	UNIT HEATER
CUH	CABINET UNIT HEATER	UV	UNIT VENTILATOR
CV	CONTROL VALVE	VAV	VARIABLE AIR VOLUME BOX
DHW	DOMESTIC WATER HEATER	VD	VOLUME DAMPER
EE	EXHAUST FAN	VSD	VARIABLE SPEED DRIVE
ET	EXPANSION TANK	WS	WATER SOFTENER
FCU	FAN COIL UNIT		
FP	FIRE PUMP		
FT	FINNED TUBE		

ABBREVIATIONS

%	PERCENT	FA	FREE AREA	NIC	NOT IN CONTRACT
AC	ALTERNATING CURRENT	FIN	FINISHED	NO	NORMALLY OPEN
ADJ	ADJACENT	FL	FLOOR	NPT	NATIONAL PIPE THREAD
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	NRS	NON-RISING STEM
AFG	ABOVE FINISHED GRADE	FPM	FEET PER MINUTE	NTS	NOT TO SCALE
ALT	ALTERNATE	FPS	FEET PER SECOND	OC	ON CENTER
AMB	AMBIENT	FT	FOOT OR FEET	OD	DIAMETER, OUTSIDE
AMP	AMPERE (AMP AMPS)	FUT	FUTURE	OS&Y	OUTSIDE SCREW AND YOKER
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GAGE	GAGE OR GAUGE	PC	PLUMBING CONTRACTOR
APPROX	APPROXIMATE (LY)	GAL	GALLONS	PLBG	PLUMBING
AVG	AVERAGE	GC	GENERAL CONTRACTOR	PH	PHASE (ELECTRICAL)
BFP	BACKFLOW PREVENTER	GPM	GALLONS PER MINUTE	PRESS	PRESSURE
BHP	BRAKE HORSEPOWER	GPD	GALLONS PER DAY	PSF	POUNDS PER SQUARE FOOT
BLDG	BUILDING	GPH	GALLONS PER HOUR	PSI	POUNDS PER SQUARE INCH
BO	BOTTOM OF	HD	HEAD	PSIG	PSI GAUGE
BSMT	BASEMENT	HG	MERCURY	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT	HORIZ	HORIZONTAL	RCVR	RECEIVER
BY	BALANCING VALVE	HP	HORSEPOWER	RECIRC	RECIRCULATE
CAP	CAPACITY	HPC	HIGH PRESSURE CONDENSATE	RHW	HOT WATER RE-CIRCULATION
CIP	CAST IRON PIPE	HPS	HIGH PRESSURE STEAM	RO	ROUGH OPENING
CLG	CEILING	HR	HOUR	RPDA	REDUCED-PRESSURE DETECTOR ASSY.
CLR	CLEAR	HZ	HEATING, VENTILATING, AND AIR CONDITIONING	RPM	REVOLUTIONS PER MINUTE
CO	CLEANOUT or CARBON MONOXIDE	IN	INCH	RZ	REDUCED-PRESSURE ZONE
COL	COLUMN	ID	DIAMETER, INSIDE	SCH	STEAM CAPTURE HOOD
CONN	CONNECTION	IN	INCH	SPEC	SPECIFICATION
CONC	CONCRETE	INSUL	INSULATION	SPLY	SUPPLY
CONT	CONTINUOUS	INT	INTERIOR	SO	SQUARE
CU FT	CUBIC FEET	IPS	IRON PIPE SIZE	SQ FT	SQUARE FOOT (FEET)
CV	VALVE FLOW COEFFICIENT	INV	INVERT	SQ IN	SQUARE INCH (INCHES)
DCCA	DOUBLE CHECK DETECTOR ASSEMBLY	KW	KILOWATT	STD	STANDARD
DCV	DETECTOR CHECK VALVE	KWH	KILOWATT HOUR	SUCT	SUCTION
DOW	DOMESTIC COLD WATER	LBS	POUNDS	TSTAT	THERMOSTAT
DEMO	DEMOLISH or DEMOLITION	LF	LINEAR FEET	TBD	TO BE DETERMINED
DHW	DOMESTIC HOT WATER	LG	LENGTH	TC	TEMPERATURE CONTROL CONTRACTOR
DIA	DIAMETER	LOC	LOCATION	TD	TEMPERATURE DIFFERENCE
DIP	DUCTILE IRON PIPE	LPC	LOW PRESSURE CONDENSATE	TEMP	TEMPERATURE
DWH	DOMESTIC WATER HEATER	LPS	LOW PRESSURE STEAM	TMV	THERMOSTATIC MIXING VALVE
DWV	DRAIN, WASTE, & VENT	LRA	LEAVING WATER TEMPERATURE	TO	TOP OF
DWG	DRAWING	LWT	LEAVING WATER TEMPERATURE	TP	TYPICAL
(E)	EXISTING	MATL	MATERIAL	V	VOLT
ENGR	ENGINEER	MAX	MAXIMUM	VAC	VACUUM
EQ	EQUAL	MHB	MBH PER HOUR (THOUSAND)	VAR	VARIABLE
EST	ESTIMATED	MECH	MECHANICAL	VEL	VELOCITY
ETR	EXISTING TO REMAIN	MFG	MANUFACTURER	VIF	VERIFY IN FIELD
EW	ELECTRIC WATER HEATER	MIN	MINIMUM	VOL	VOLUME
EWT	ENTERING WATER TEMPERATURE	MISC	MISCELLANEOUS	W	WATT
EX	EXISTING	MOCP	MAXIMUM OVERCURRENT PROTECTION	W/	WITH
EXIST	EXISTING	MPC	MEDIUM PRESSURE CONDENSATE	W/O	WITH OUT
EXP	EXPANSION	MPS	MEDIUM PRESSURE STEAM	WCO	WALL CLEANOUT
EXT	EXTERIOR	MTG	MOUNTING	WHA	WATER HAMMER ARRESTER
F	DEGREES FAHRENHEIT	N/A	NOT APPLICABLE	WM	WATER METER
		NC	NORMALLY CLOSED	WPD	WATER PRESSURE DROP
				WT	WEIGHT
				WWP	WORKING WATER PRESSURE

SHEET LIST

M001	MECHANICAL LEGEND SHEET
M002	OVERALL LEVEL 1 DUCTWORK PLAN
MD101	DEMOLITION DUCTWORK PLANS - BLDG A & B
MD201	DEMOLITION DUCTWORK PLANS - BLDG C
M101	LEVEL 1 DUCTWORK PLAN - BLDG A & B
M102	LEVEL 1 DUCTWORK PLAN - BLDG C
M103	LEVEL 1 DUCTWORK PLAN - ADDITION A & B
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES

MECHANICAL SCHEDULES

NOTE: SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

MECHANICAL SCHEDULES

NOTE: SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS

GENERAL NOTES

DUCTWORK GENERAL NOTES:

- HVAC CONTRACTOR TO PROVIDE CRANE AND NECESSARY EQUIPMENT TO HOIST ROOF MOUNTED HVAC EQUIPMENT FROM SITE TO FINAL ROOF LOCATION. GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN INTERIM FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.
- PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR SUPPLY, RETURN AND EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE. VOLUME DAMPERS SHALL BE OMITTED FROM VAV INLET BRANCH DUCTWORK.
- COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- INSULATE OR LINE DUCTWORK AS SPECIFIED IN THE MECHANICAL INSULATION AND METAL DUCTS SPECIFICATIONS OR NOTED ON DRAWINGS. NOTE THAT DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE NET CLEAR DIMENSIONS.
- ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES. TURNING VANES SHALL BE OMITTED FROM AIR TRANSFER DUCT ELBOWS.
- ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- HVAC CONTRACTOR TO PROVIDE ALL WALL & ROOF PENETRATIONS 8"x8" OR SMALLER. ALL PENETRATIONS LARGER THAN 8"x8" IS THE RESPONSIBILITY OF THE G.C. COORDINATE ALL 8"x8" OR LARGER PENETRATION LOCATIONS WITH G.C. LINTELS (BY G.C.) REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. PENETRATIONS AND LINTEL LOCATIONS TO BE COORDINATED WITH G.C. AND DOCUMENTED ON COORDINATION DRAWINGS.
- BALANCING CONTRACTOR TO SET MINIMUM OUTSIDE AIR DAMPER POSITION TO MEET VENTILATION AIR QUANTITIES REQUIRED AS SHOWN ON PLANS OR LISTED IN EQUIPMENT SCHEDULES.
- ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE STRUCTURAL STEEL WHERE REQUIRED IN ORDER TO SUPPORT EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES WHERE THE BUILDING STRUCTURE SPACING IS TOO GREAT TO ALLOW DIRECT SUPPORT. THE DISCIPLINE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMATION OF ALL SUPPORTS AND SHALL OBTAIN THE PROFESSIONAL SERVICE OF A LICENSED STRUCTURAL ENGINEER AND FURNISH SEALED DRAWINGS AND DETAILS ILLUSTRATING SUCH SUPPORTS AND COMPLIANCE METHODS.
- THE ABOVE GENERAL NOTES APPLY TO ALL HVAC CONSTRUCTION DOCUMENT DRAWINGS.

NC ENERGY REQUIREMENTS:

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

PRESCRIPTIVE	<input checked="" type="checkbox"/>	ENERGY COST BUDGET	<input type="checkbox"/>
THERMAL ZONE			4A
EXTERIOR DESIGN CONDITIONS			
WINTER DRY BULB			22
SUMMER DRY BULB			94
INTERIOR DESIGN CONDITIONS			
WINTER DRY BULB			72
SUMMER DRY BULB			75
RELATIVE HUMIDITY			50
BUILDING HEATING LOAD			211.4 MBH
BUILDING COOLING LOAD			239.0 MBH
MECHANICAL SPACE CONDITIONING SYSTEM			
UNITARY			
DESCRIPTION OF UNIT			SEE SCHEDULES
HEATING EFFICIENCY			SEE SCHEDULES
COOLING EFFICIENCY			SEE SCHEDULES
HEAT OUTPUT OF UNIT			SEE SCHEDULES
COOLING OUTPUT OF UNIT			SEE SCHEDULES
BOILER			
TOTAL BOILER OUTPUT			N/A
CHILLER			
TOTAL CHILLER OUTPUT			N/A
LIST EQUIPMENT EFFICIENCIES			SEE SCHEDULES
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)			
MOTOR HORSEPOWER			SEE SCHEDULES
NUMBER OF PHASES			SEE SCHEDULES
MINIMUM EFFICIENCY			SEE SCHEDULES
MOTOR TYPE			SEE SCHEDULES
NUMBER OF POLES			SEE SCHEDULES

ADDITIONAL PRESCRIPTIVE COMPLIANCE REQUIREMENTS

<input checked="" type="checkbox"/>	C406.2	MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
<input checked="" type="checkbox"/>	C406.3	REDUCED LIGHTING POWER DENSITY
<input checked="" type="checkbox"/>	C406.4	ENHANCED DIGITAL LIGHTING CONTROLS
<input checked="" type="checkbox"/>	C406.5	ON-SITE RENEWABLE ENERGY
<input checked="" type="checkbox"/>	C406.6	DEDICATED OUTDOOR AIR SYSTEM
<input checked="" type="checkbox"/>	C406.7	REDUCED ENERGY USE IN SERVICE WATER HEATING

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02.18.2025

SPRINGBROOK NURSING AND REHABILITATION CENTER ADDITION
195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

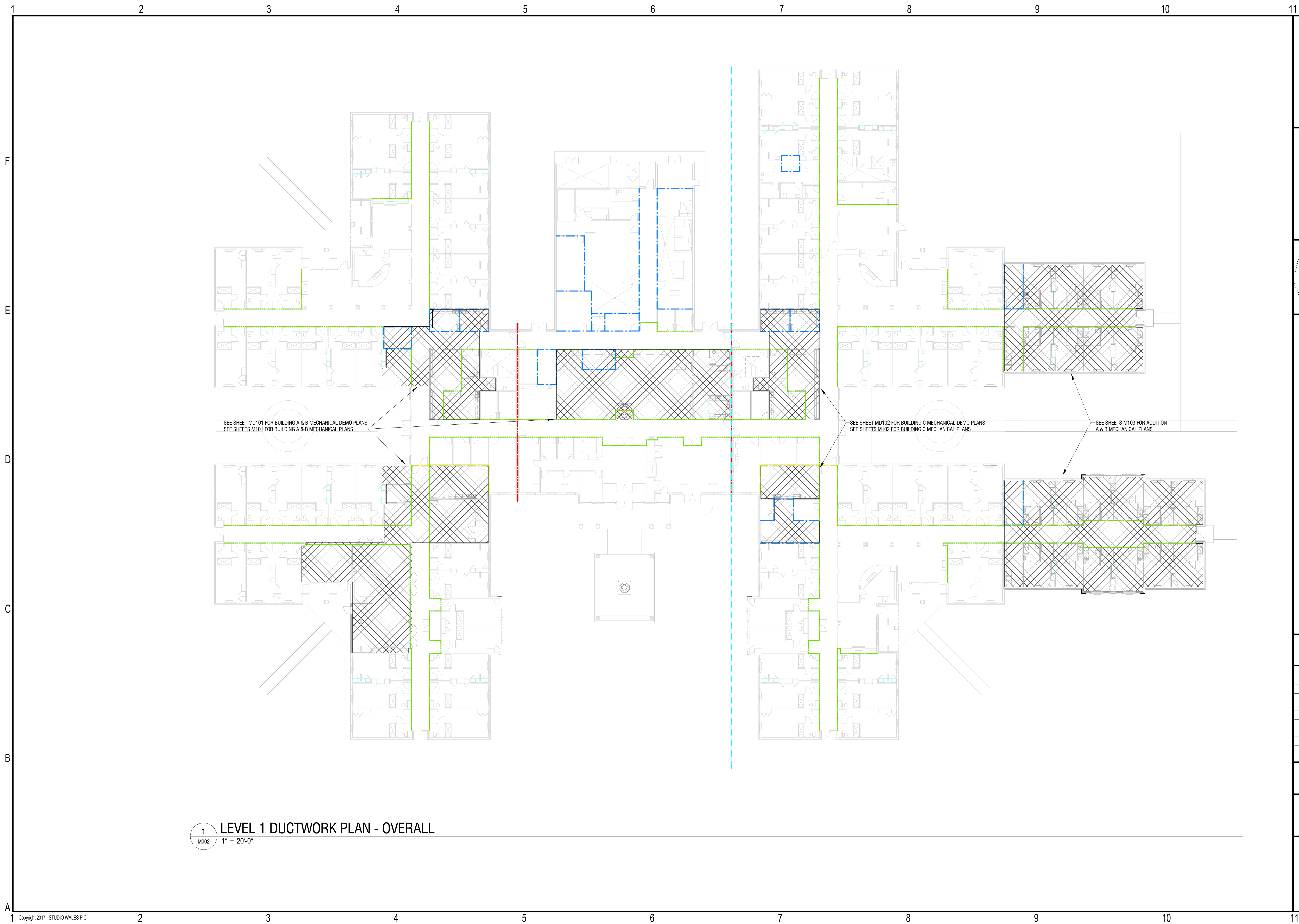
FOR CONSTRUCTION

Revisions		
No.	Description	Date

date: 02/06/2025
commission: NH-3138

sheet title:
MECHANICAL LEGEND SHEET

sheet number:
M001

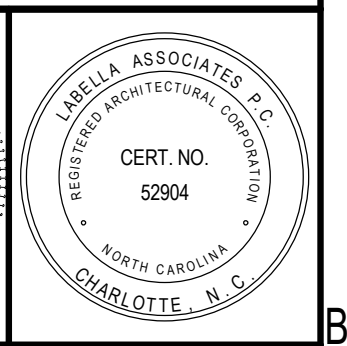
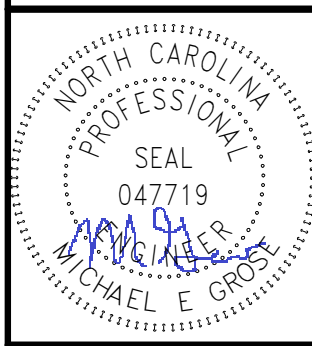


1 LEVEL 1 DUCTWORK PLAN - OVERALL
 M002 1" = 20'-0"

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 ADDITION**
 195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION

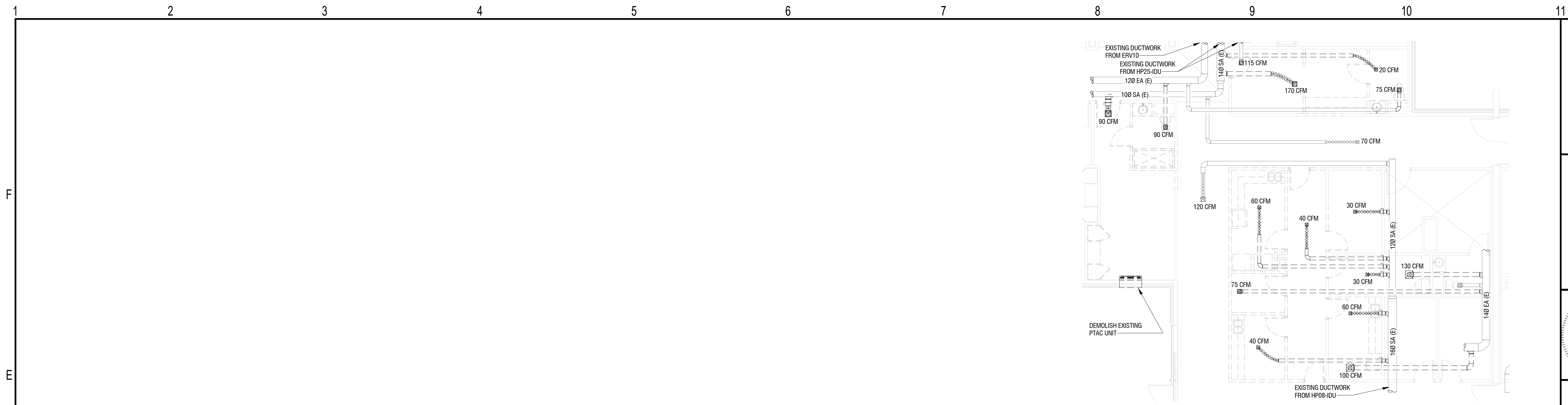
Revisions		
No.	Description	Date

date: 02/06/2025
 commission: NH-3138

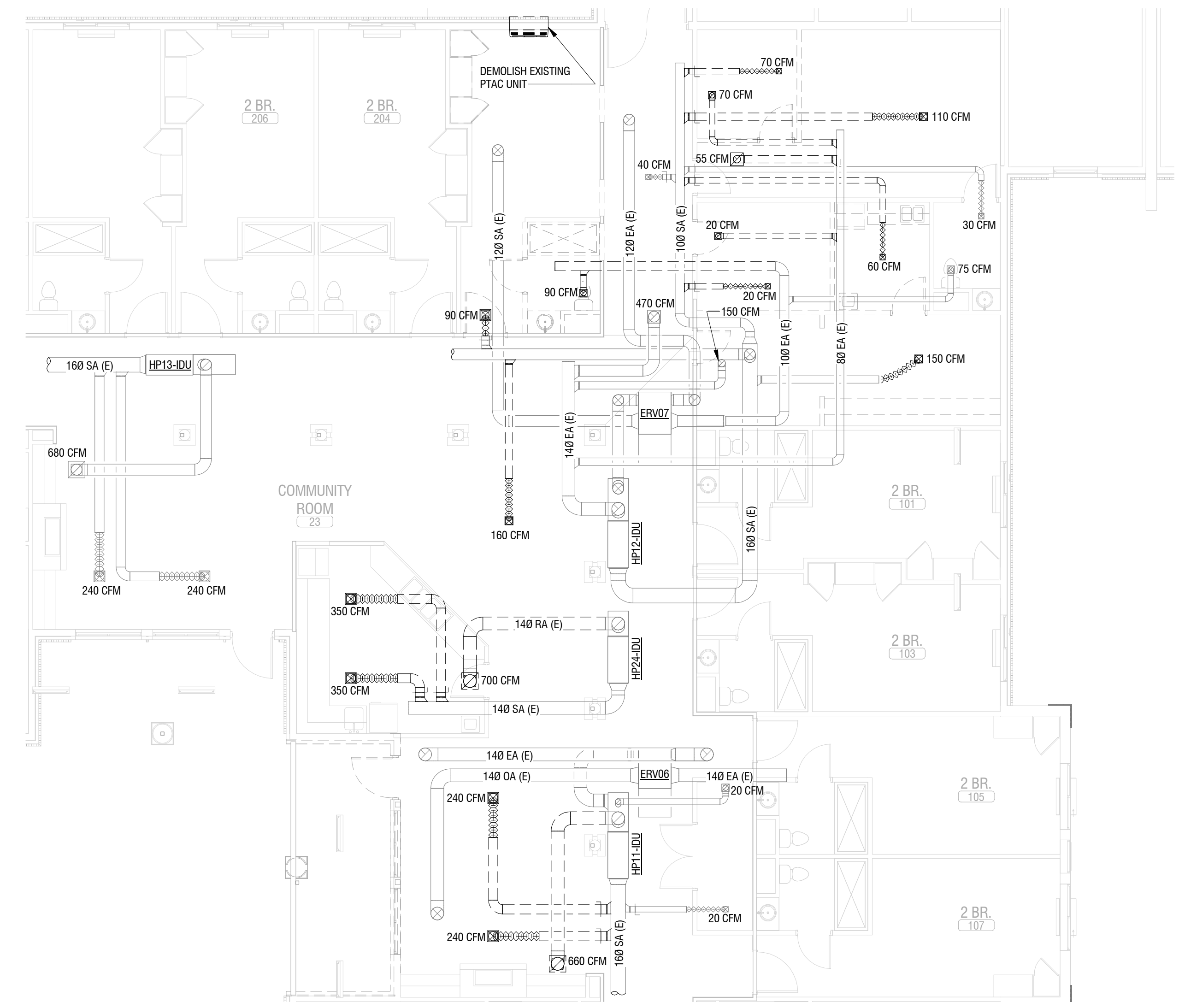
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**OVERALL LEVEL 1 DUCTWORK
 PLAN**

sheet number :

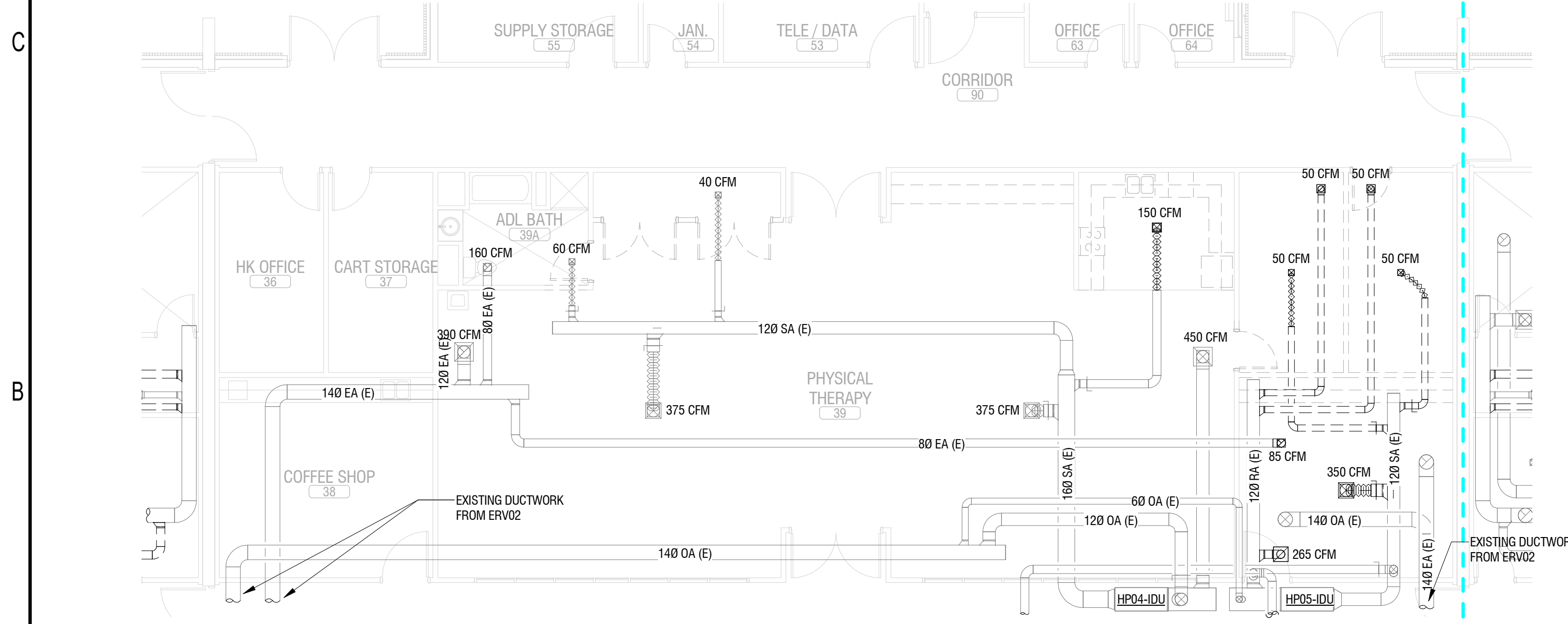
M002



2 LEVEL 1 DEMOLITION DUCTWORK PLAN - BLDG A (NURSE STATION)
MD101 1/8" = 1'-0"



1 LEVEL 1 DEMOLITION DUCTWORK PLAN - BLDG A (COMMUNITY ROOM)
MD101 1/8" = 1'-0"

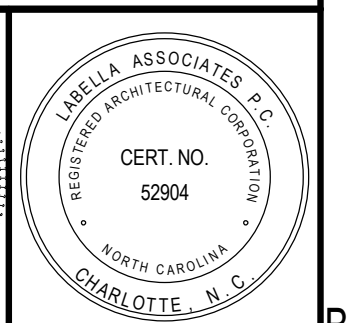
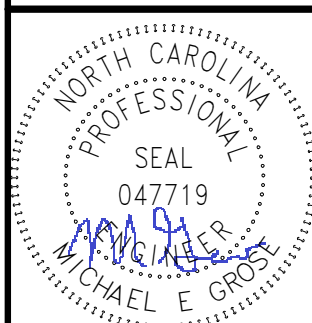


3 LEVEL 1 DEMOLITION DUCTWORK PLAN - BLDG B
MD101 1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION

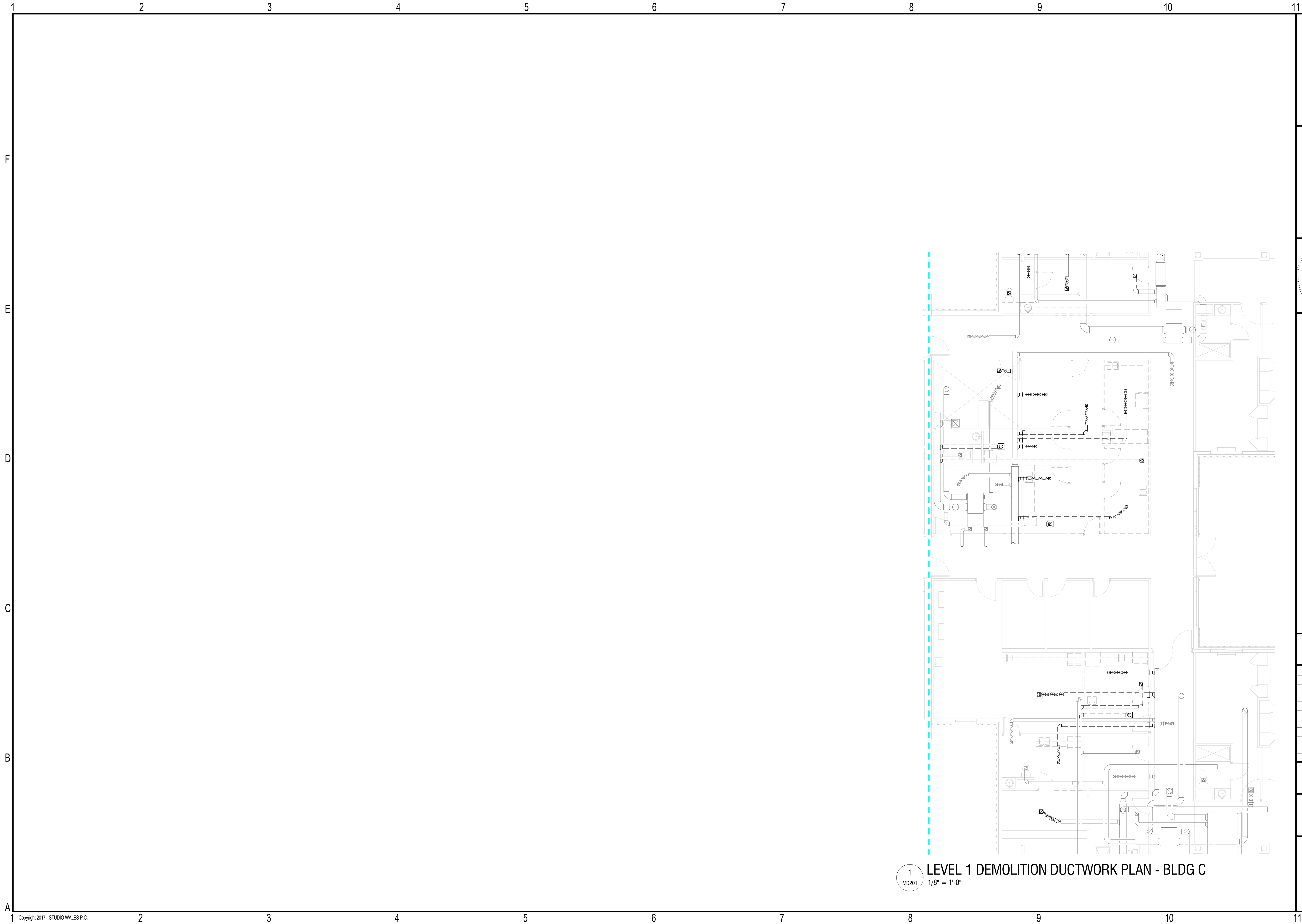
Revisions		
No.	Description	Date

date: 02/06/2025
commission: NH-3138

sheet title:
**DEMOLITION DUCTWORK
PLANS - BLDG A & B**

sheet number :

MD101

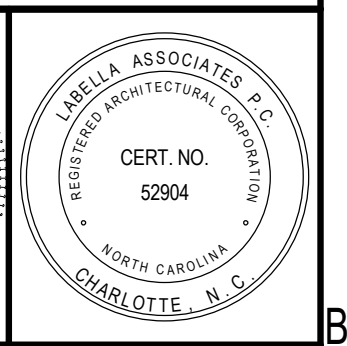
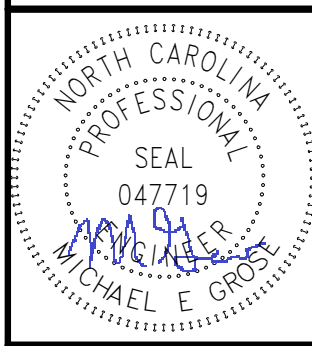


1
MD201 1/8" = 1'-0"

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**SPRINGBROOK NURSING AND
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ADDITION**
195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION

Revisions		
No.	Description	Date

date: 02/06/2025
commission: NH-3138

sheet title:
DEMOLITION DUCTWORK
PLANS - BLDG C

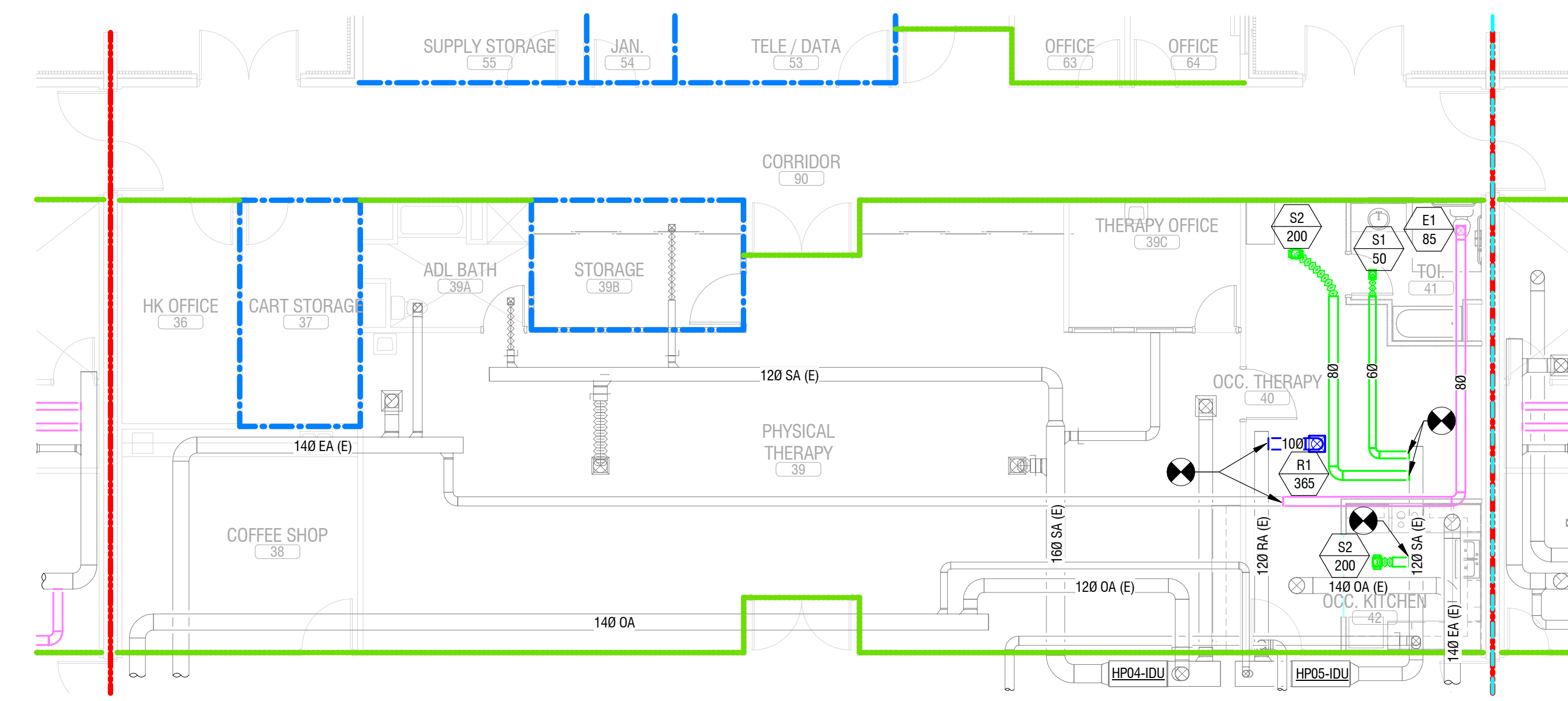
sheet number :

MD201

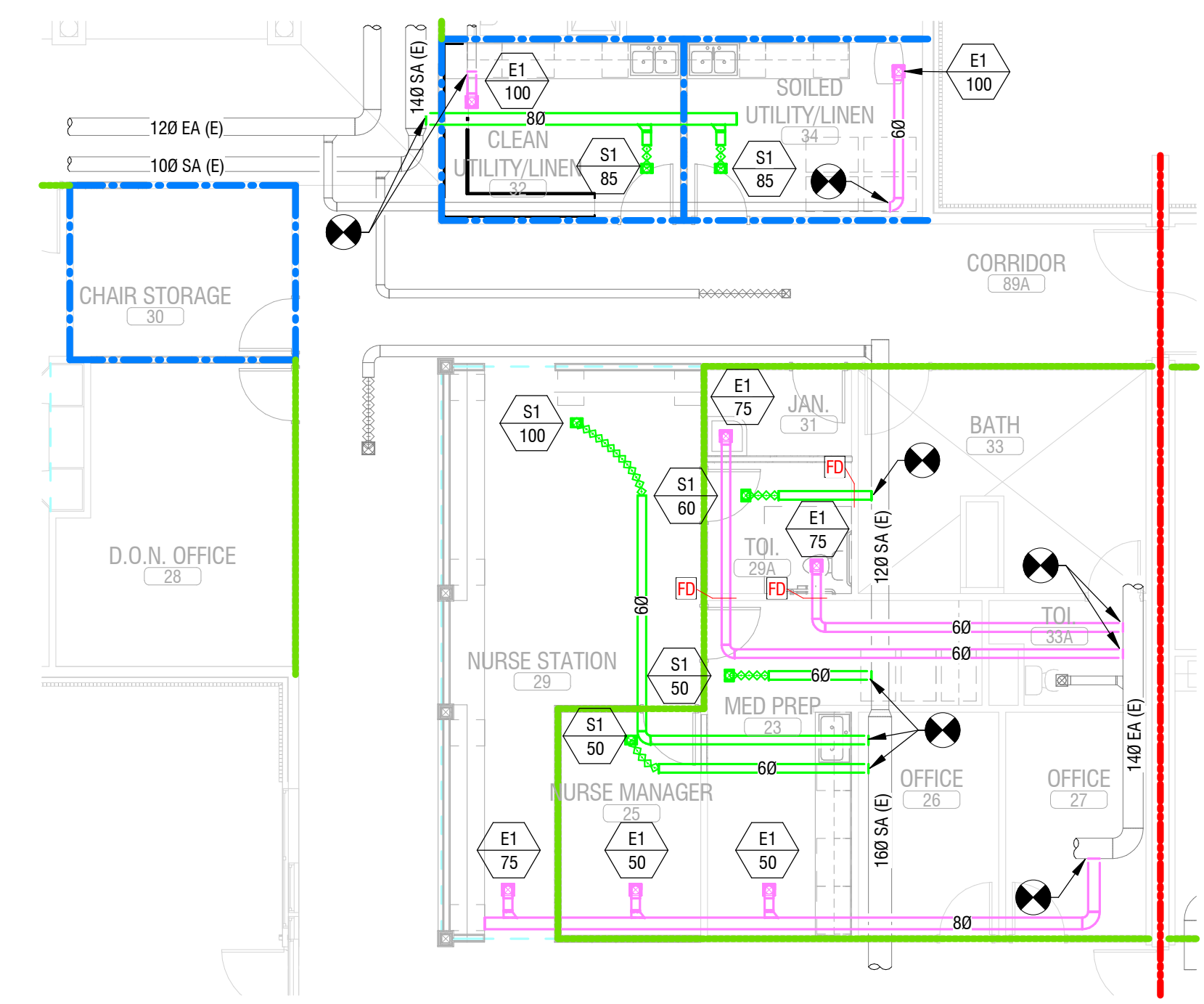
MECHANICAL NOTES:

- ALL CEILINGS ARE FIRE RATED. PROVIDE SUITABLE RADIATION DAMPERS AT ALL DUCT, DIFFUSER OR GRILLE LOCATIONS.
- ALL PIPING PENETRATIONS THRU RATED PARTITIONS SHALL BE PER PENETRATION DETAILS. REFER TO ARCH.
- ALL OUTSIDE AIR INTAKES SHALL BE LOCATED 10'-0" MIN. FROM ANY PLUMBING VENT TERMINAL.
- ALL ROOF MOUNTED EQUIPMENT, INTAKES, CAPS, ETC. SHALL BE LOCATED ON THE REAR FACE OF THE ROOF.
- PAINT ALL ROOF VENTILATORS IN COLOR TO MATCH ROOF.
- BRANCH DUCT CONNECTION TO DIFFUSER OR GRILLE MAY HAVE 8'-0" LONG MAX. FLEX DUCT CONNECTOR.
- ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS.
- BALANCE ALL FAN AND AIR CONDITIONING SYSTEMS TO CFMS INDICATED ON PLANS.
- SEE SPECS FOR PROCEDURE ON APPROVAL OF EQUIVALENT MATERIALS AND EQUIPMENT.
- EQUIPMENT AND DUCTWORK LOCATIONS IN ATTIC ARE APPROXIMATE BASED ON ASSUMED ROOF FRAMING ARRANGEMENTS. ADJUST AND COORDINATE WITH ACTUAL FIELD CONDITIONS AS REQUIRED TO PROVIDE CLEARANCES FOR CODE AND MAINTENANCE.
- REFRIGERANT PIPING RUNS SHALL BE SIZED AND ARRANGED PER MFR'S RECOMMENDATIONS. PROVIDE ACCUMULATOR, DRYER, TOP VALVE AND OTHER ACCESSORIES AS RECOMMENDED.
- COORDINATE REGISTER DIFFUSER LOCATIONS WITH LIGHTS, SMOKE DETECTORS ETC. ADJUST LOCATIONS AS REQUIRED.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION THAT ALL EQUIPMENT INSTALLED IN ATTIC CAN BE REMOVED THROUGH ACCESS OPENINGS PROVIDED IN ACCORDANCE WITH CODE.
- BUILDING ADDITION INCLUDES FULL COVERAGE FIRE ALARM. DUCT SMOKE DETECTORS ARE NOT REQUIRED.

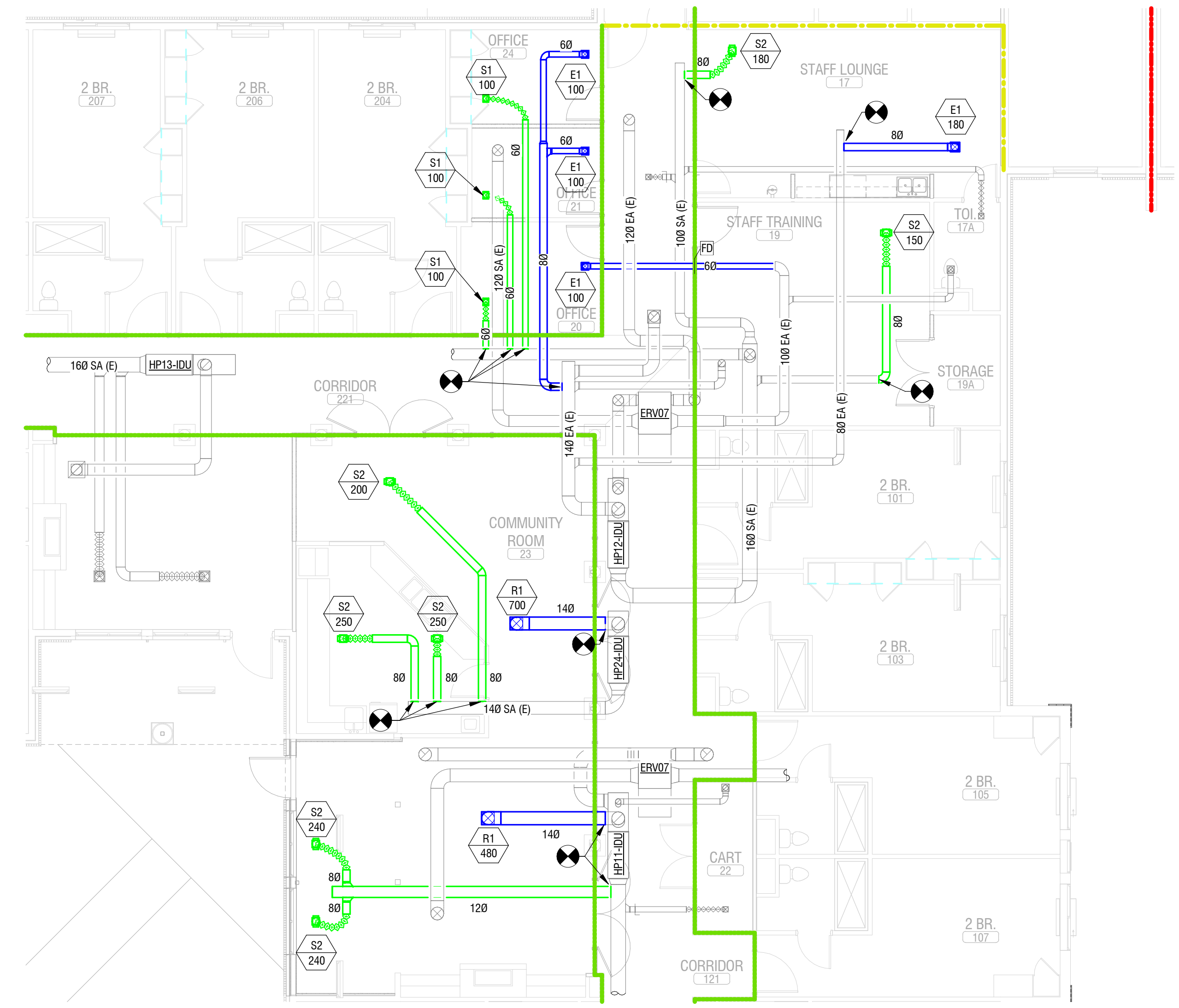
AIR BALANCE DESIGNATION - BLDG A & B						
NOTES: Balance CFM = Supply CFM - Return/Exhaust CFM Pressure Options: Positive, Negative or Neutral ACH = (Supply CFM * 60) / (Area * Room Height) ; Room Height = 9'-0"						
Room Name	Areas (SF)	Supply (CFM)	Return/Exhaust (CFM)	Balance (CFM)	Pressure	Air Changes per Hour (ACH)
17 STAFF LOUNGE	416 SF	180	180	0	NEUTRAL	2.88
19 STAFF TRAINING	426 SF	150	150	0	NEUTRAL	2.35
20 OFFICE	126 SF	100	100	0	NEUTRAL	5.29
21 OFFICE	93 SF	100	100	0	NEUTRAL	7.17
23 COMMUNITY ROOM	1330 SF	1180	1180	0	NEUTRAL	5.91
24 OFFICE	99 SF	100	100	0	NEUTRAL	6.73
23 MED PREP	203 SF	50	50	0	NEUTRAL	1.64
25 NURSE MANAGER	102 SF	50	50	0	NEUTRAL	3.27
29 NURSE STATION	357 SF	100	75	25	POSITIVE	1.87
29A TOI	62 SF	60	75	-15	NEGATIVE	6.45
31 JAN.	41 SF	0	75	-75	NEGATIVE	12.2
32 CLEAN UTILITY/LINEN	135 SF	85	100	-15	NEGATIVE	4.2
34 SOILED UTILITY/LINEN	135 SF	85	100	-15	NEGATIVE	4.2
40 OCC. THERAPY	350 SF	200	365	-165	NEGATIVE	3.81
41 TOI	81 SF	50	85	-35	NEGATIVE	4.12
42 OCC. KITCHEN	105 SF	200	0	200	POSITIVE	12.7



3 LEVEL 1 DUCTWORK PLAN - BLDG B
M101 1/8" = 1'-0"



2 LEVEL 1 DUCTWORK PLAN - BLDG A (NURSE STATION)
M101 1/8" = 1'-0"



1 LEVEL 1 DUCTWORK PLAN - BLDG A (COMMUNITY ROOM)
M101 1/8" = 1'-0"

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02.18.2025

**SPRINGBROOK NURSING AND
REHABILITATION CENTER
ADDITION**
195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION		
Revisions		
No.	Description	Date

date: 02/06/2025
commission: NH-3138

sheet title:
**LEVEL 1 DUCTWORK PLAN -
BLDG A & B**

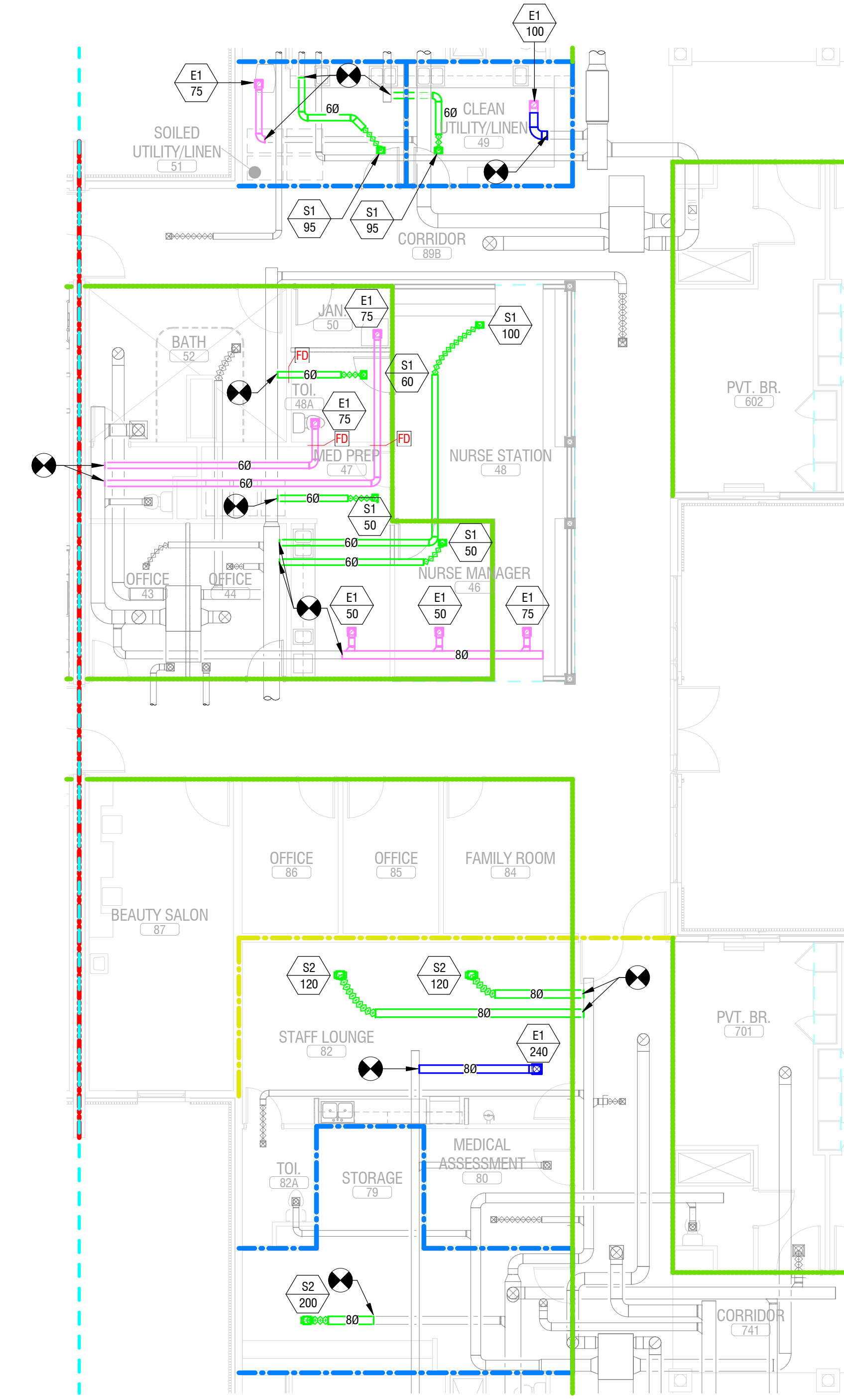
sheet number :

M101

MECHANICAL NOTES:

- ALL CEILINGS ARE FIRE RATED. PROVIDE SUITABLE RADIATION DAMPERS AT ALL DUCT, DIFFUSER OR GRILLE LOCATIONS.
- ALL PIPING PENETRATIONS THRU RATED PARTITIONS SHALL BE PER PENETRATION DETAILS. REFER TO ARCH.
- ALL OUTSIDE AIR INTAKES SHALL BE LOCATED 10'-0" MIN. FROM ANY PLUMBING VENT TERMINAL.
- ALL ROOF MOUNTED EQUIPMENT, INTAKES, CAPS, ETC. SHALL BE LOCATED ON THE REAR FACE OF THE ROOF.
- PAINT ALL ROOF VENTILATORS IN COLOR TO MATCH ROOF.
- BRANCH DUCT CONNECTION TO DIFFUSER OR GRILLE MAY HAVE 3'-0" LONG MAX. FLEX DUCT CONNECTOR.
- ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS.
- BALANCE ALL FAN AND AIR CONDITIONING SYSTEMS TO CFMS INDICATED ON PLANS.
- SEE SPECS FOR PROCEDURE ON APPROVAL OF EQUIVALENT MATERIALS AND EQUIPMENT.
- EQUIPMENT AND DUCTWORK LOCATIONS IN ATTIC ARE APPROXIMATE BASED ON ASSUMED ROOF FRAMING ARRANGEMENTS. ADJUST AND COORDINATE WITH ACTUAL FIELD CONDITIONS AS REQUIRED TO PROVIDE CLEARANCES FOR CODE AND MAINTENANCE.
- REFRIGERANT PIPING RUNS SHALL BE SIZED AND ARRANGED PER MFR'S RECOMMENDATIONS. PROVIDE ACCUMULATOR, DRYER, TOP VALVE AND OTHER ACCESSORIES AS RECOMMENDED.
- COORDINATE REGISTER DIFFUSER LOCATIONS WITH LIGHTS, SMOKE DETECTORS ETC. ADJUST LOCATIONS AS REQUIRED.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION THAT ALL EQUIPMENT INSTALLED IN ATTIC CAN BE REMOVED THROUGH ACCESS OPENINGS PROVIDED IN ACCORDANCE WITH CODE.
- BUILDING ADDITION INCLUDES FULL COVERAGE FIRE ALARM. DUCT SMOKE DETECTORS ARE NOT REQUIRED.

AIR BALANCE DESIGNATION - BLDG C						
NOTES:						
Balance CFM = Supply CFM - Return/Exhaust CFM						
Pressure Options: Positive, Negative or Neutral						
ACH = (Supply CFM * 60) / (Area * Room Height) ; Room Height = 9'-0"						
Room Name	Area (SF)	Supply (CFM)	Return/Exhaust (CFM)	Balance (CFM)	Pressure	Air Changes per Hour (ACH)
46 NURSE MANAGER	102 SF	50	50	0	NEUTRAL	3.27
47 MED PREP	203 SF	50	50	0	NEUTRAL	1.64
48 NURSE STATION	359 SF	100	75	25	POSITIVE	1.86
48A TOI	62 SF	60	75	-15	NEGATIVE	6.45
49 CLEAN UTILITY/LINEN	136 SF	95	100	-5	NEGATIVE	4.66
50 JAN.	41 SF	0	75	-75	NEGATIVE	12.2
51 SOILED UTILITY/LINEN	135 SF	95	75	20	POSITIVE	4.69
79 STORAGE	362 SF	200	200	0	NEUTRAL	3.68
82 STAFF LOUNGE	416 SF	240	240	0	NEUTRAL	3.85

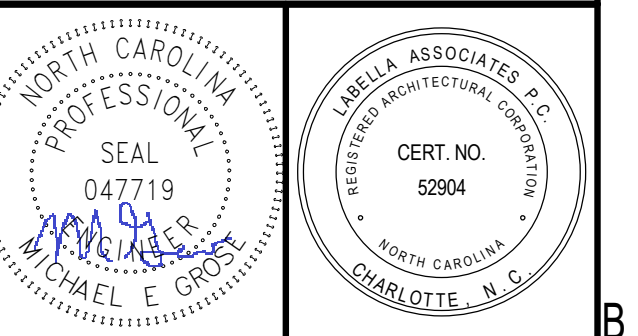


1
M102
LEVEL 1 DUCTWORK PLAN - BLDG C
1/8" = 1'-0"

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02.18.2025

**SPRINGBROOK NURSING AND
REHABILITATION CENTER
ADDITION**
195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

FOR CONSTRUCTION		
Revisions		
No.	Description	Date

date: 02/06/2025
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sheet title:
LEVEL 1 DUCTWORK PLAN -
BLDG C

sheet number :

M102

DESIGN BRIEF - VENTILATION CALCULATIONS - ADDITIONS A & B

NOTES:
Occupancy (Pz) = (Occupant Density / 1000) * Area (Az)
Standard Classroom (770 to 1,000 sq.ft.) = 30 people max.
Vbz = RpPz + RaAz
Voz = Vbz / Ez

Zone	Room Number	Room Name	Classification	Area (A _z) (sq.ft.)	Occupant Density (#/1000 sq.ft.)	OA/Person (Rp)	Outdoor Air Rate (Ra)	Exhaust Rate	Corrig. Code	Occupancy (P _z)	Adjusted Rate (Vbz) (cfm)	Zone Outdoor Airflow Rate (Voz) (cfm)	Space Exhaust Rate (CFM)
IDU-32-ERV-20-PTAC-1	81	STORAGE	STORAGE	182	0	0	0.12	0	0.80	0	0	27	0
IDU-32-ERV-20-PTAC-1	83	CONTROL POINT	OFFICE	107	5	5	0.06	0	0.80	1	11	14	0
IDU-32-ERV-20-PTAC-1	609	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	610	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	611	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	612	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	613	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	614	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	615	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	616	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-32-ERV-20-PTAC-1	620	CORRIDOR	CORRIDOR	1130	0	0	0.06	0	0.80	0	68	85	0
				3019							237	296	720
IDU-33-ERV-21-PTAC-1	91	STORAGE	STORAGE	182	0	0	0.12	0	0.80	0	0	27	0
IDU-33-ERV-21-PTAC-1	91	CONTROL POINT	OFFICE	107	5	5	0.06	0	0.80	1	11	14	0
IDU-33-ERV-21-PTAC-1	709	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	710	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	711	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	712	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	713	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	714	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	715	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	716	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	717	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	718	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	719	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	720	PRIVATE BEDROOM	DWELLING	200	10	5	0.06	0	0.80	2	17	21	90
IDU-33-ERV-21-PTAC-1	741	CORRIDOR	CORRIDOR	1468	0	0	0.06	0	0.80	0	88	110	0
				4157							325	407	1080
				7176							562	703	1800

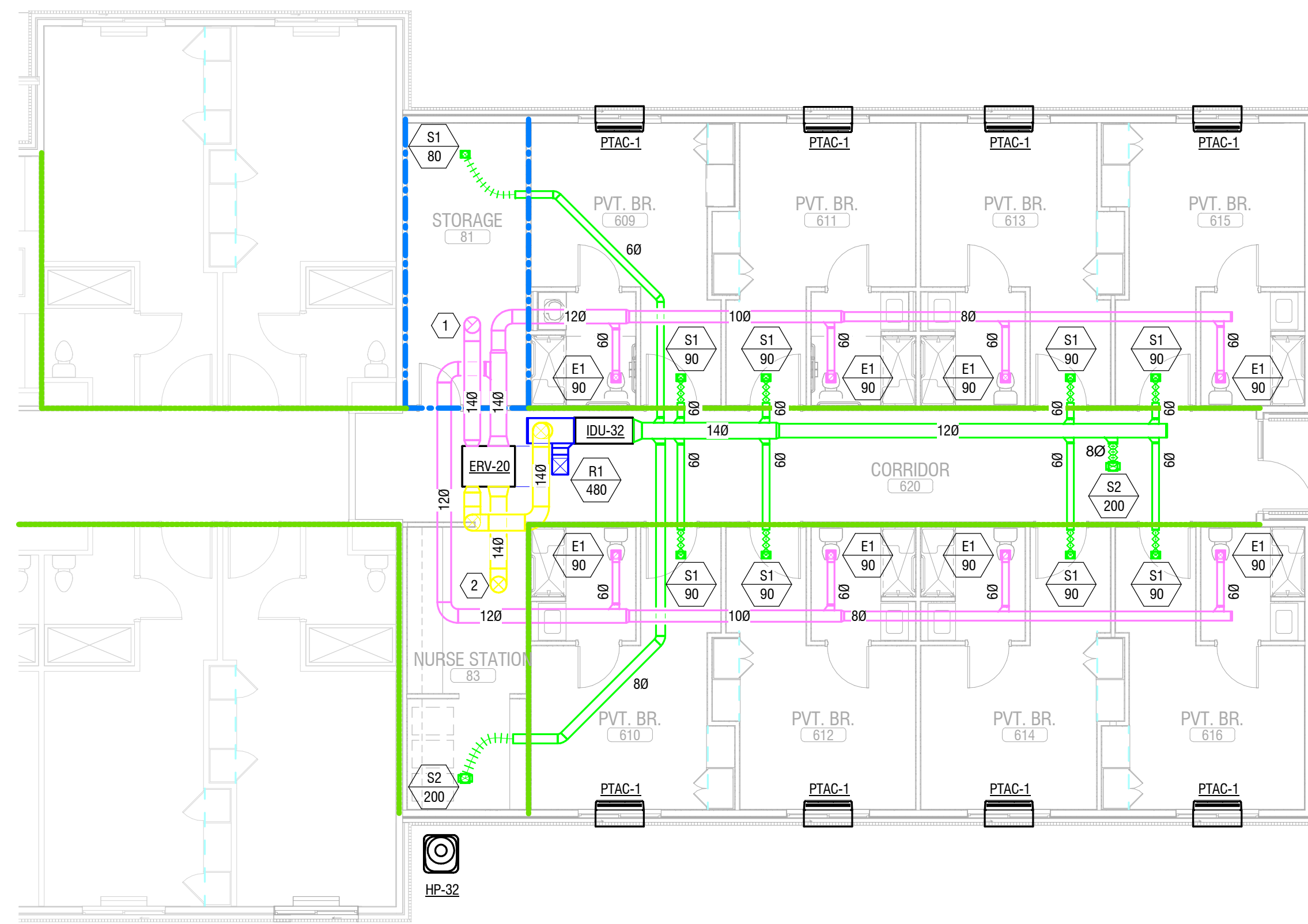
AIR BALANCE DESIGNATION - ADDITIONS A & B

NOTES:
Balance CFM = Supply CFM - Return/Exhaust CFM
Pressure Options: Positive, Negative or Neutral
ACH = (Supply CFM * 60) / (Area * Room Height) ; Room Height = 9'-0"

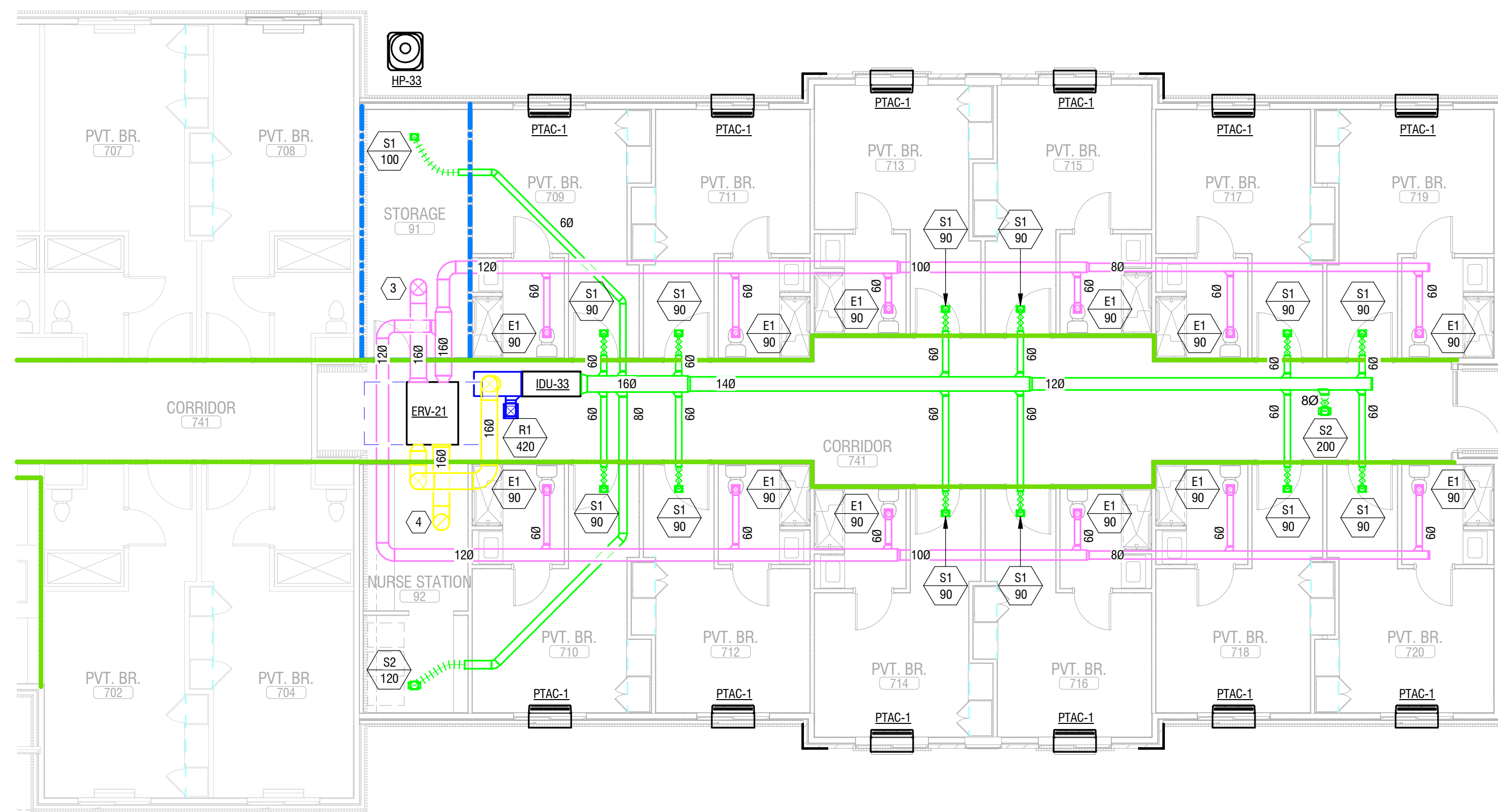
Room Name	Area (SF)	Supply (CFM)	Return/Exhaust (CFM)	Balance (CFM)	Pressure	Air Changes per Hour (ACH)
81 STORAGE	182 SF	80	0	80	POSITIVE	2.93
83 CONTROL POINT	107 SF	200	0	200	POSITIVE	12.46
609 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
610 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
611 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
612 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
613 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
614 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
615 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
616 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
620 CORRIDOR	1130 SF	200	480	-280	NEGATIVE	2.83
91 STORAGE	182 SF	100	0	100	POSITIVE	3.66
92 CONTROL POINT	107 SF	120	0	120	POSITIVE	7.48
709 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
710 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
711 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
712 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
713 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
714 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
715 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
716 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
717 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
718 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
719 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
720 PRIVATE BEDROOM	200 SF	90	90	0	NEUTRAL	3
741 CORRIDOR	1468 SF	200	420	-220	NEGATIVE	1.91

MECHANICAL NOTES:

- ALL CEILINGS ARE FIRE RATED. PROVIDE SUITABLE RADIATION DAMPERS AT ALL DUCT, DIFFUSER OR GRILLE LOCATIONS.
- ALL PIPING PENETRATIONS THRU RATED PARTITIONS SHALL BE PER PENETRATION DETAILS. REFER TO ARCH.
- ALL OUTSIDE AIR INTAKES SHALL BE LOCATED 10'-0" MIN. FROM ANY PLUMBING VENT TERMINAL.
- ALL ROOF MOUNTED EQUIPMENT, INTAKES, CAPS, ETC. SHALL BE LOCATED ON THE REAR FACE OF THE ROOF.
- PAINIT ALL ROOF VENTILATORS IN COLOR TO MATCH ROOF.
- BRANCH DUCT CONNECTION TO DIFFUSER OR GRILLE MAY HAVE 8'-0" LONG MAX. FLEX DUCT CONNECTOR.
- ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS.
- BALANCE ALL FAN AND AIR CONDITIONING SYSTEMS TO CFMS INDICATED ON PLANS.
- SEE SPECS FOR PROCEDURE ON APPROVAL OF EQUIVALENT MATERIALS AND EQUIPMENT.
- EQUIPMENT AND DUCTWORK LOCATIONS IN ATTIC ARE APPROXIMATE BASED ON ASSUMED ROOF FRAMING ARRANGEMENTS. ADJUST AND COORDINATE WITH ACTUAL FIELD CONDITIONS AS REQUIRED TO PROVIDE CLEARANCES FOR CODE AND MAINTENANCE.
- REFRIGERANT PIPING RUNS SHALL BE SIZED AND ARRANGED PER MFR'S RECOMMENDATIONS. PROVIDE ACCUMULATOR, DRYER, TXV VALVE AND OTHER ACCESSORIES AS RECOMMENDED.
- COORDINATE REGISTER DIFFUSER LOCATIONS WITH LIGHTS, SMOKE DETECTORS ETC. ADJUST LOCATIONS AS REQUIRED.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION THAT ALL EQUIPMENT INSTALLED IN ATTIC CAN BE REMOVED THROUGH ACCESS OPENINGS PROVIDED IN ACCORDANCE WITH CODE.
- BUILDING ADDITION INCLUDES FULL COVERAGE FIRE ALARM. DUCT SMOKE DETECTORS ARE NOT REQUIRED.



1 LEVEL 1 DUCTWORK PLAN - ADDITION A
1/8" = 1'-0"



2 LEVEL 1 DUCTWORK PLAN - ADDITION B
1/8" = 1'-0"

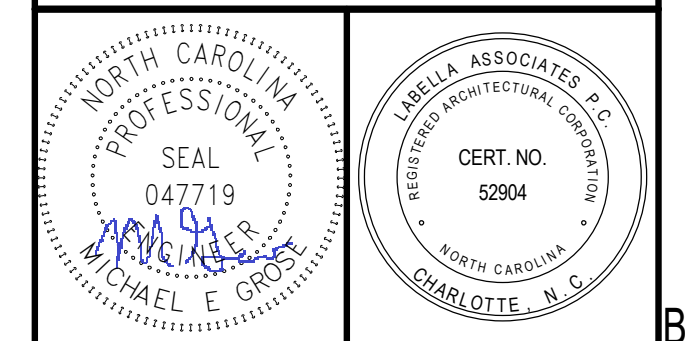
KEY NOTES:

- ROUTE 14" EXHAUST DUCT THROUGH ROOF AND TERMINATE W/ HOODED ROOF CAP. ROOF CAP TO BE GREENHECK MODEL GRSR-14, OR APPROVED EQUAL. PROVIDE W/ BIRD SCREEN & BACKDRAFT DAMPER. COORDINATE FINISH AND ROOF PITCH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" MIN. AWAY FROM O.A. INTAKES. MAINTAIN 3'-0" MIN. AWAY FROM BUILDING OPENINGS.
- ROUTE 14" O.A. DUCT THROUGH ROOF AND TERMINATE W/ APPROVED ROOF CAP. ROOF CAP TO BE GREENHECK MODEL GRSR-14 OR APPROVED EQUAL. PROVIDE W/ INSECT SCREEN & BACKDRAFT DAMPER. COORDINATE FINISH AND ROOF PITCH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" FROM EXHAUST OUTLETS & PLUMBING VENTS.
- ROUTE 16" EXHAUST DUCT THROUGH ROOF AND TERMINATE W/ HOODED ROOF CAP. ROOF CAP TO BE GREENHECK MODEL GRSR-16, OR APPROVED EQUAL. PROVIDE W/ BIRD SCREEN & BACKDRAFT DAMPER. COORDINATE FINISH AND ROOF PITCH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" MIN. AWAY FROM O.A. INTAKES. MAINTAIN 3'-0" MIN. AWAY FROM BUILDING OPENINGS.
- ROUTE 16" O.A. DUCT THROUGH ROOF AND TERMINATE W/ APPROVED ROOF CAP. ROOF CAP TO BE GREENHECK MODEL GRSR-16 OR APPROVED EQUAL. PROVIDE W/ INSECT SCREEN & BACKDRAFT DAMPER. COORDINATE FINISH AND ROOF PITCH W/ ARCHITECT. FIELD COORDINATE EXACT LOCATION. MAINTAIN 10'-0" FROM EXHAUST OUTLETS & PLUMBING VENTS.

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CONSTRUCTION DOCUMENTS

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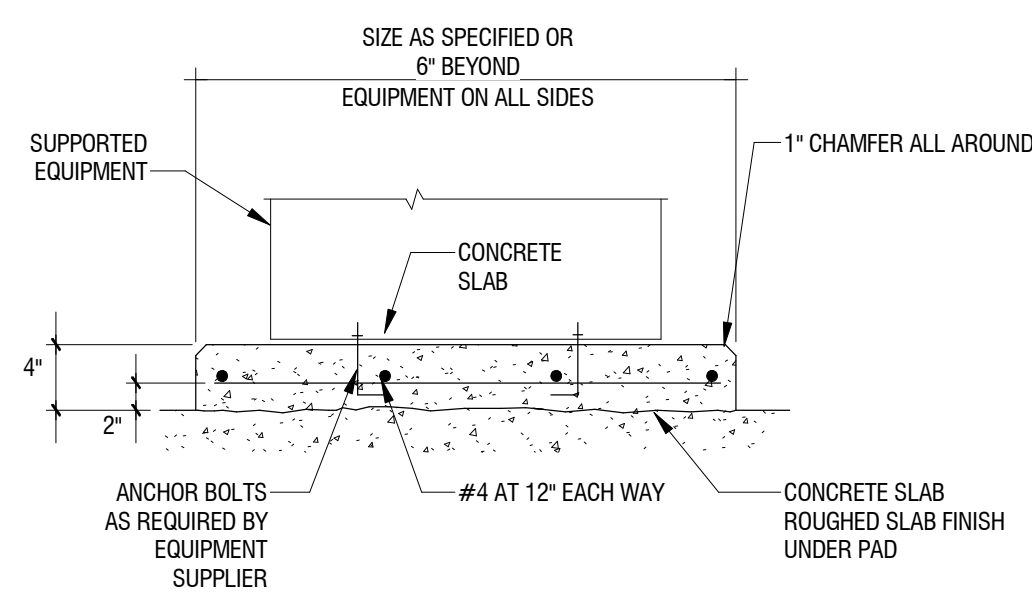
Revisions		
No.	Description	Date

date: 02/06/2025
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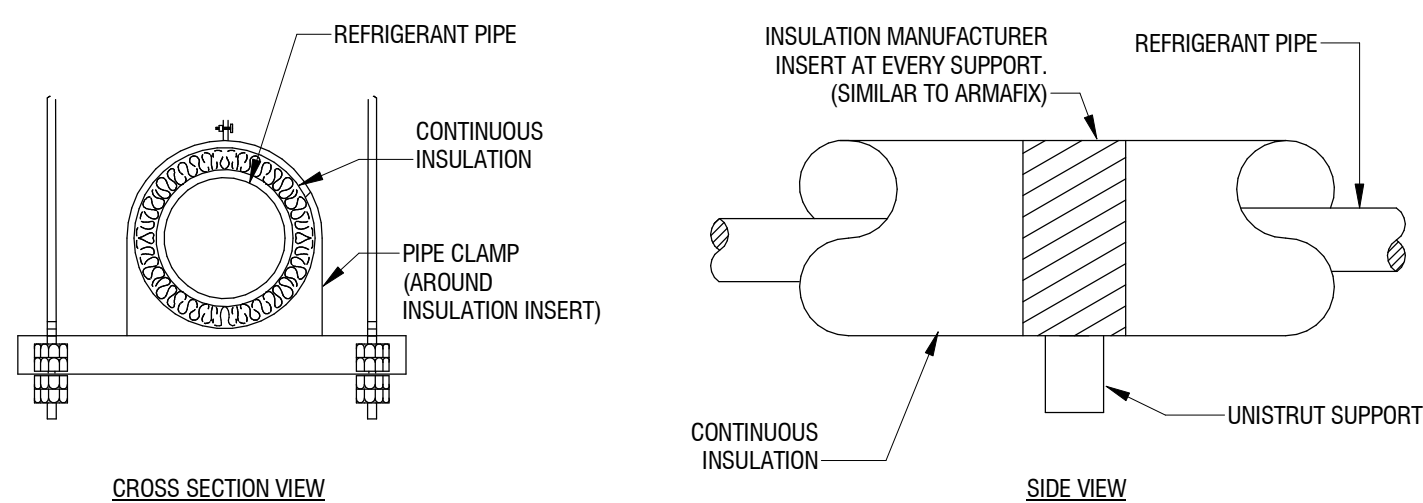
sheet title:
**LEVEL 1 DUCTWORK PLAN -
ADDITION A & B**

sheet number:

M103

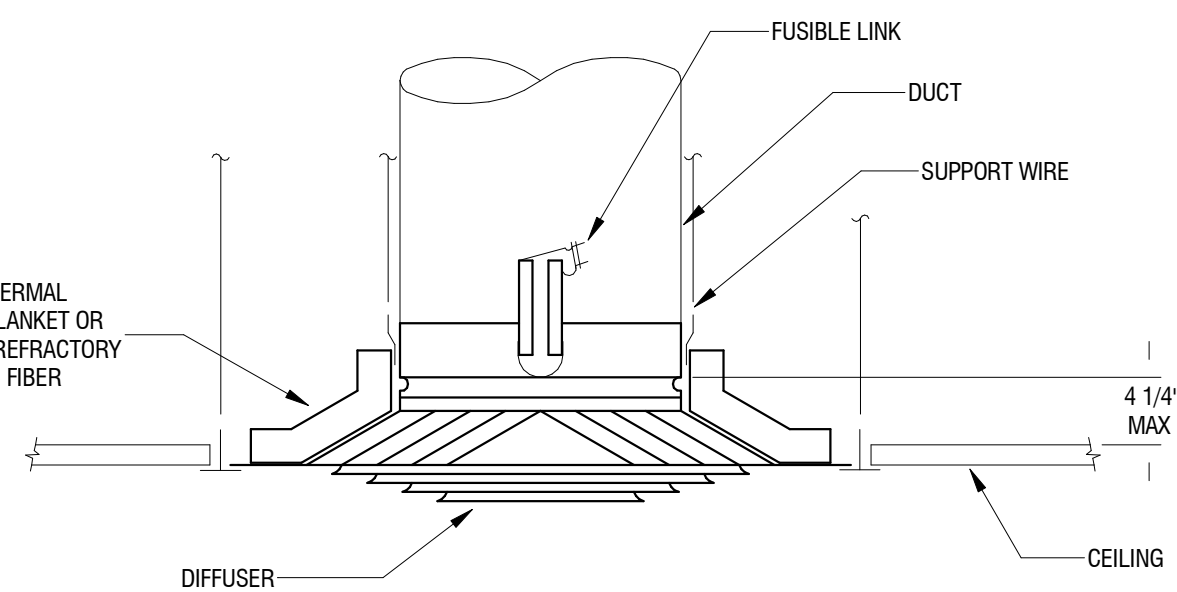
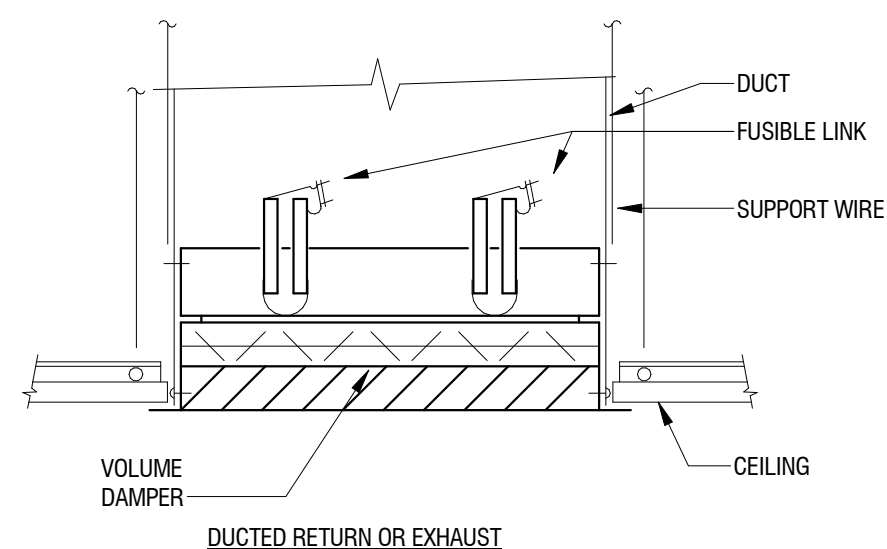
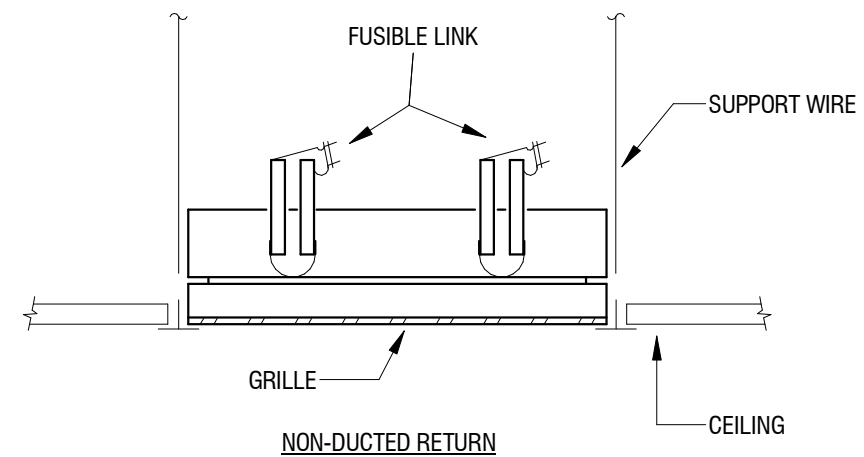


7 S - HOUSEKEEPING PAD DETAIL
M501 NOT TO SCALE



- NOTES:**
1. PROVIDE INSULATION CONTINUOUS THROUGH SUPPORT.
 2. PROVIDE MANUFACTURERS INSULATION INSERT AT EACH PIPE CLAMP.
 3. PROVIDE CLAMP AROUND INSULATION INSERT.
 4. INSTALL INSULATION/INSERT PER MANUFACTURERS RECOMMENDATION.
 5. PROVIDE PVC JACKET AROUND PIPE IN ALL EXPOSED LOCATIONS AND EXTERIOR INSTALLATION.

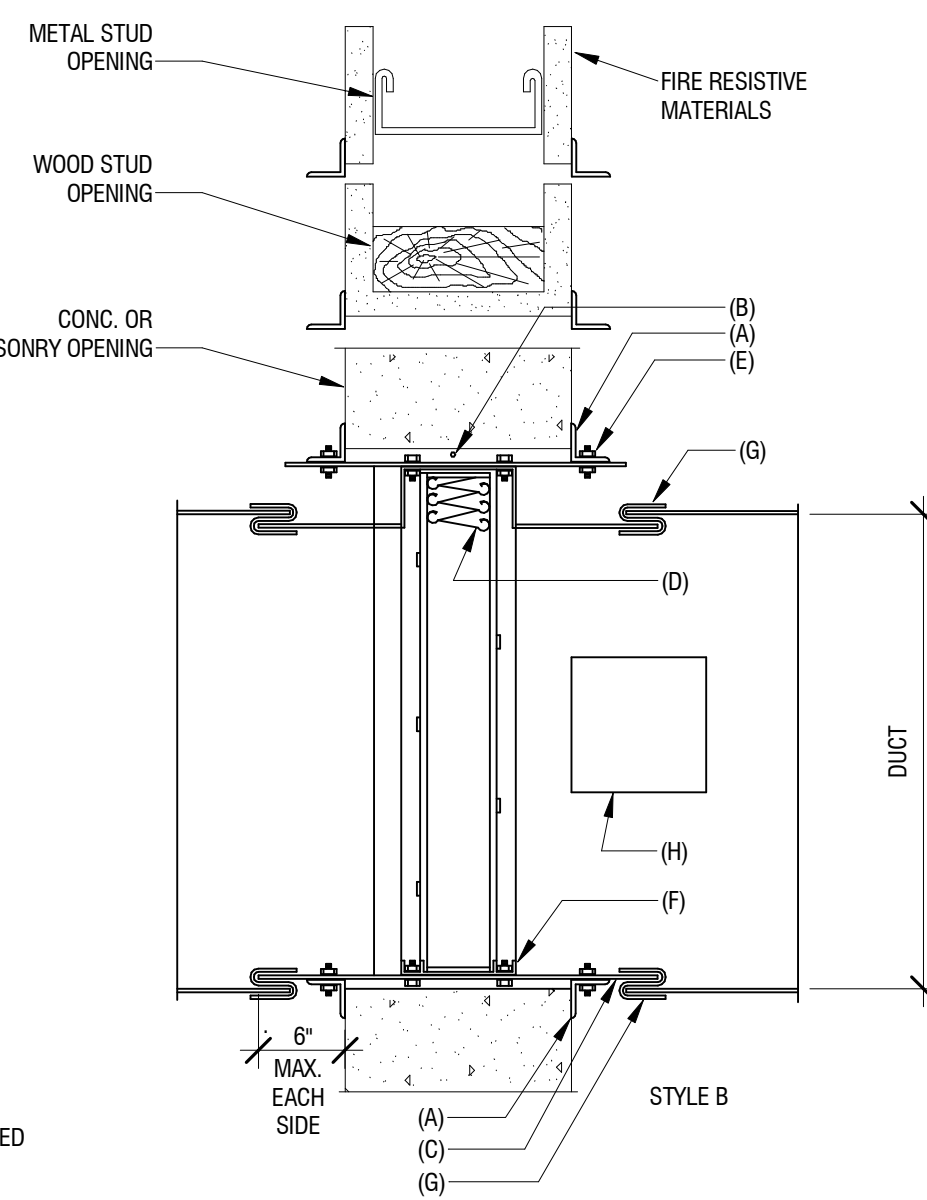
6 PIPE - REFRIGERANT PIPING SUPPORT DETAIL
M501 NOT TO SCALE



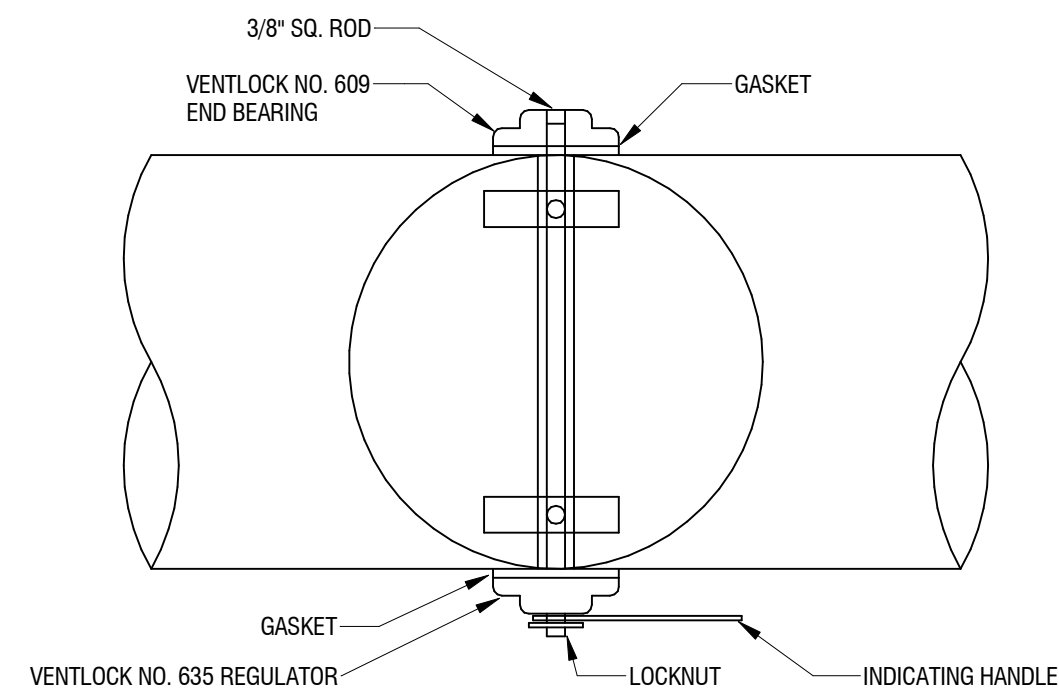
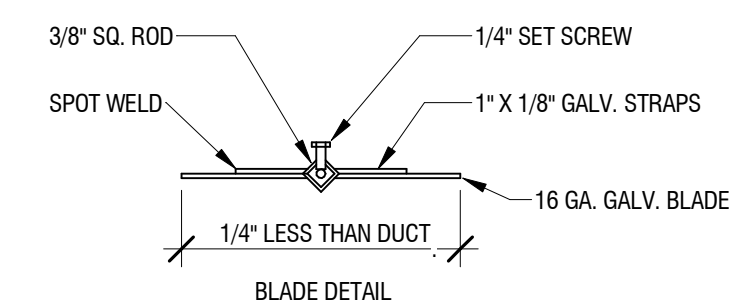
5 DUCT - FD - FIRE DAMPER DETAILS AT CEILING PENETRATION
M501 NOT TO SCALE

- (A) RETAINING ANGLE: SHALL BE MINIMUM OF 1-1/2"x1-1/2"x1/4" GA. FASTEN TO SLEEVE ONLY WITH 1/4" DIA. BOLTS & NUTS ON 8" CENTERS & WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE. RETAINING ANGLES SHALL OVERLAP WALL A MINIMUM OF ONE INCH ON ALL FOUR SIDES.
- (B) CLEARANCE: OPENINGS IN WALL OR FL. SHALL BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS (3/16" FOR STAINLESS STEEL) MINIMUM CLEARANCE OF 1/4" REQUIRED IN BOTH DIRECTIONS.
- (C) STEEL SLEEVE: 14 GAGE WITH BREAKAWAY CONNECTIONS.
- (D) FIRE DAMPER: UL BLADE TYPE.
- (E) BOLTS AND NUTS: SECURE RETAINING ANGLES TO SLEEVE ONLY ON 8" CENTERS WITH 1/4" DIAMETER BOLTS & NUTS AND WITH A MINIMUM OF TWO CONNECTIONS IN EACH SIDE.
- (F) SECURE DAMPER TO SLEEVE ON SAME SPACING AS ANGLES AS RECOMMENDED BY SMACNA. BREAKAWAY CONNECTIONS: PROVIDE.
- (G) BREAKAWAY CONNECTIONS AT JOINTS BETWEEN DUCTS AND SLEEVE PER SMACNA RECOMMENDATIONS.
- (H) ACCESS DOOR

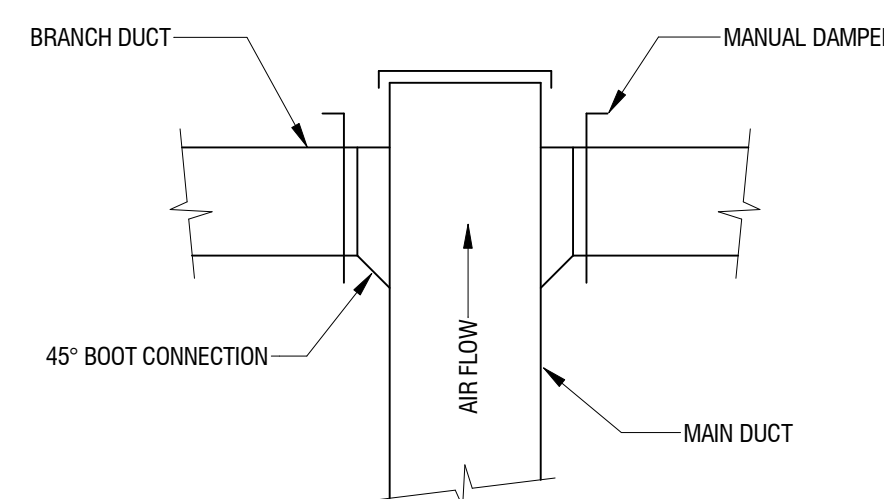
NOTE: FOR REFERENCE ONLY. USE MANUFACTURER PROVIDED UL LISTED INSULATION REQUIREMENTS.



4 DUCT - FD - FIRE DAMPER DETAIL
M501 NOT TO SCALE

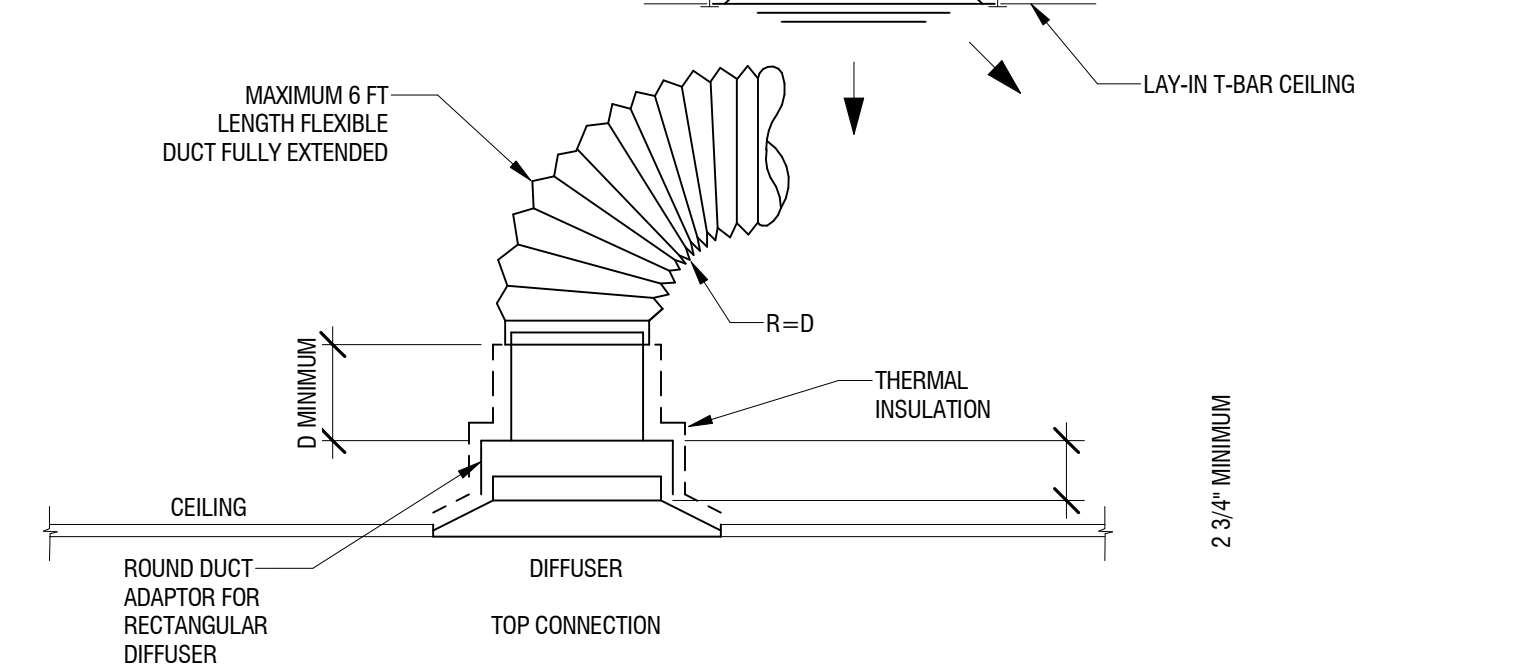
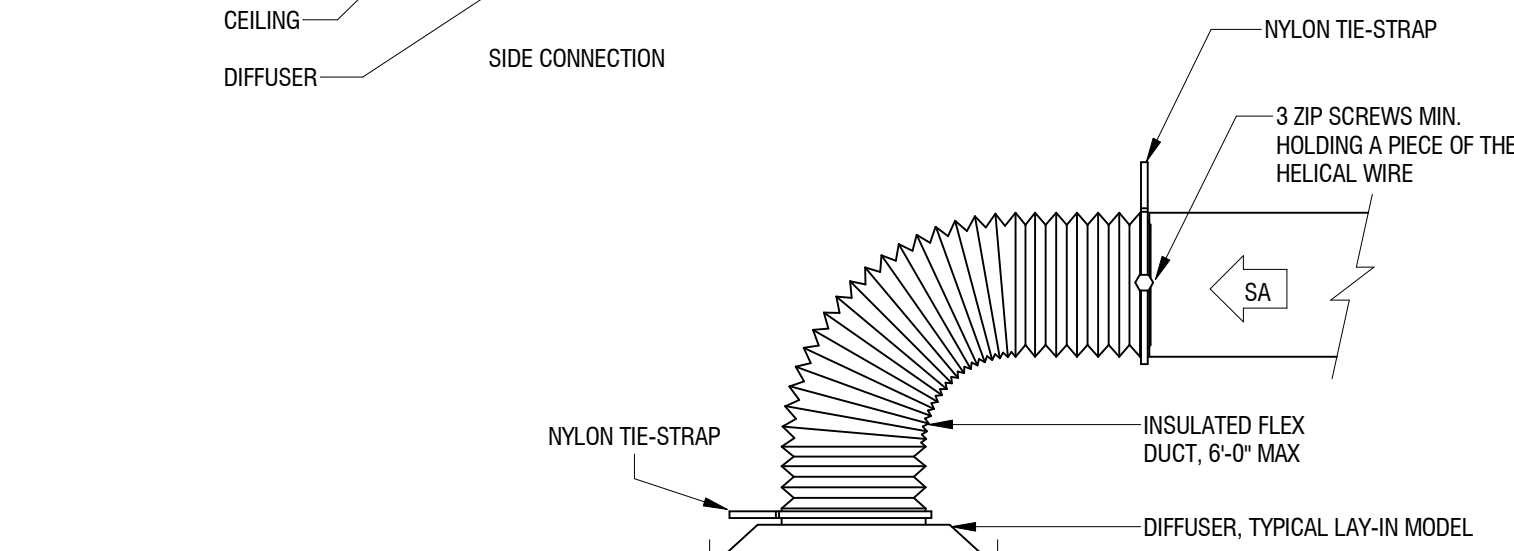
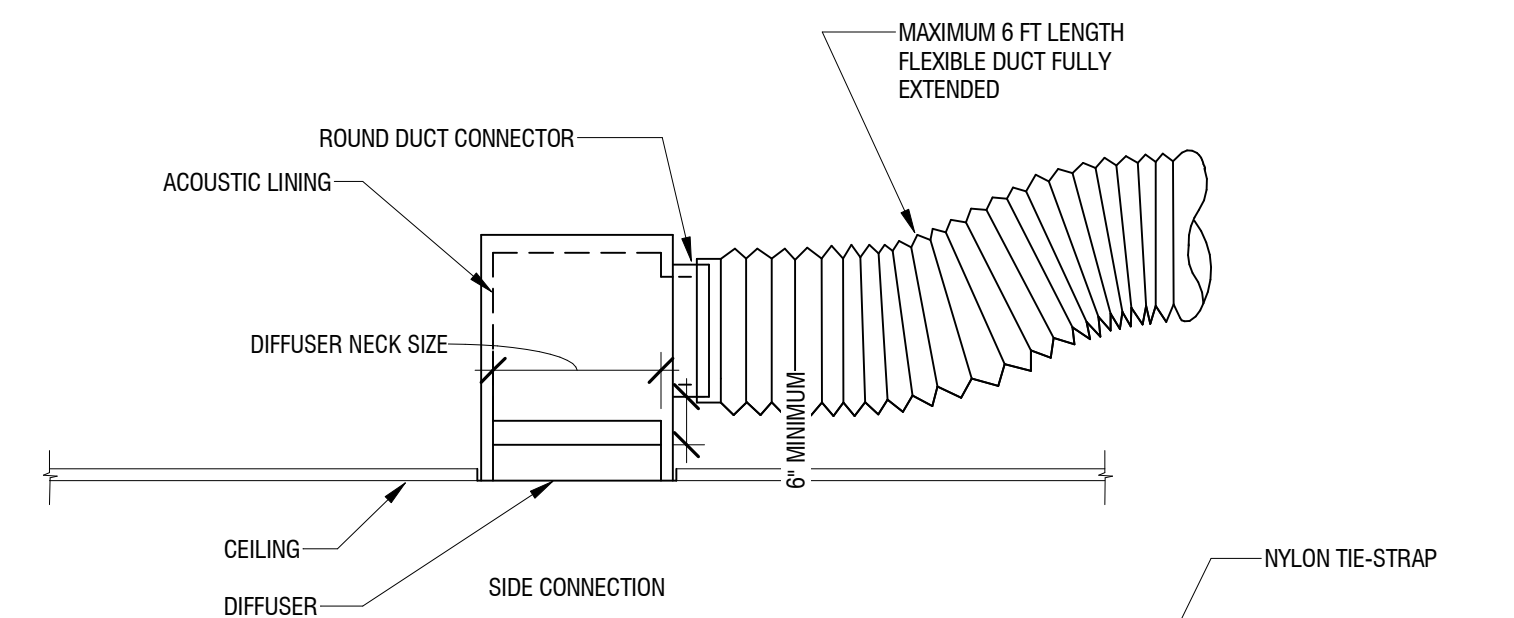


3 DUCT - ROUND VOLUME DAMPER DETAIL
M501 NOT TO SCALE



NOTE: AIR FLOW FOR SUPPLY SYSTEM IS SHOWN. AIR FLOW FOR EXHAUST SYSTEM IS OPPOSITE.

2 DUCT - DUCT TEE BRANCH TAKE-OFF DETAIL
M501 NOT TO SCALE

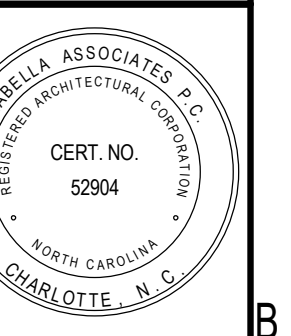
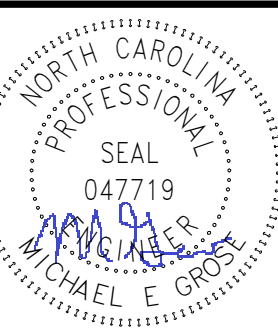


1 DUCT - AT - DIFFUSER CONNECTION DETAIL
M501 NOT TO SCALE

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195 SPRINGBROOK AVE, CLAYTON, NC

CONSTRUCTION DOCUMENTS

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MECHANICAL DETAILS

sheet number:

M501

SPLIT SYSTEM HEAT PUMP SCHEDULE																					
INDOOR UNIT TAG	OUTDOOR UNIT TAG	LOCATION	COOLING PERFORMANCE			HEATING PERFORMANCE		INDOOR UNIT						OUTDOOR UNIT				MANUFACTURER	MODEL	NOTES	
			CAPACITY (MBH)	EER	REFRIG. TYPE	CAPACITY @ 47°F (MBH)	CAPACITY @ 17°F (MBH)	DRY CFM	WEIGHT (lb)	POWER	MAX FUSE	MCA	FAN FLA	WEIGHT (lb)	POWER	MAX FUSE	MCA				FAN FLA
IDU-32	HP-32	CORRIDOR 620	31.7	11.7	R-454B	32.0	21.8	1200	138	208V/1Ph/60Hz	30	27.0	3.9	222	208V/1Ph/60Hz	30	19.0	0.64	TRANE	STEM4D04AC31SA / 5TWR5036A	3.6kW HEATER; PROVIDE MERV 13 FILTERS
IDU-33	HP-33	CORRIDOR 741	37.7	11.7	R-454B	39.0	24.6	1500	138	208V/1Ph/60Hz	30	27.0	3.9	222	208V/1Ph/60Hz	40	24.0	0.64	TRANE	STEM4D04AC31SA / 5TWR5042A	3.6kW HEATER; PROVIDE MERV 13 FILTERS

ENERGY RECOVERY VENTILATOR SCHEDULE																		
No.	SERVING	SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST CFM	SUPPLY ESP	EXHAUST ESP	SUPPLY TEMP (°F)	NET FLOW (CFM)	POWER (hp)	SENSIBLE EFFICIENCY (%)	LATENT RECOVERY MOISTURE	V/Hz/Ph	MCA (A)	MAX FUSE	MANUFACTURER	MODEL	NOTES
ERV-20	ADDITION A BEDROOMS	720	720	720	720	0.25	0.37	78.8	720	0.24	1.02	76%	120/60/1	20.5	25	GREENHECK	MINIVENT-750-VG	
ERV-21	ADDITION B BEDROOMS	1080	1080	1080	1080	0.25	0.37	78.8	1080	0.33	1.03	80%	208/60/1	12.6	15	GREENHECK	ERV-20-15L	

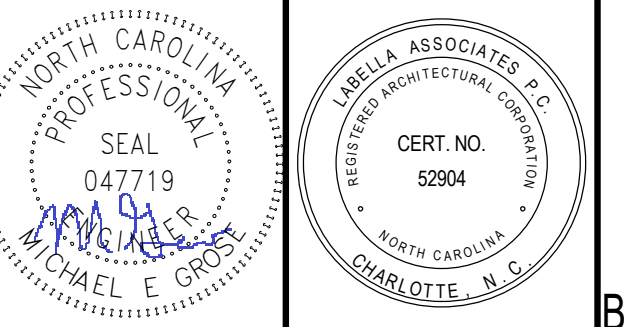
REGISTER AND GRILLE SCHEDULE												
No.	NECK SIZE	FACE SIZE	SERVICE	MATERIAL	DAMPER	FINISH	MOUNTING	USE	DESCRIPTION	MANUFACTURER	MODEL	NOTES
E1	6"x6"	8"x6"	EXHAUST	ST	YES	WE	SURFACE	EXHAUST	EXHAUST GRILLE 45 DEG DEFLECTION	PRICE	530	
R1	14"x14"	16"x16"	RETURN	ST	YES	WE	SURFACE	SUPPLY	RETURN GRILLE 45 DEG DEFLECTION	PRICE	530	
S1	6"x6"	8"x6"	SUPPLY	ST	YES	WE	SURFACE	SUPPLY	SUPPLY GRILLE DOUBLE DEFLECTION	PRICE	510	
S2	10"x4"	10"x6"	SUPPLY	ST	YES	WE	SURFACE	SUPPLY	SUPPLY GRILLE DOUBLE DEFLECTION	PRICE	510	

PTAC SCHEDULE											
No.	COOLING TOTAL BTUH	COOLING SENS. BTUH	CFM HIGH/LOW	ELECTRIC DATA	MCA	MOCOP	HEATING BTU	COP	NOTES	MANUFACTURER	MODEL
PTAC-1	7.1	6.9	360/205	208V/1PH	13.6	20	9.4	4.0	2.7 kW HEATER	GE	AZ65H07DAB

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