



ARCHITECTURE ENGINEERING

North Carolina 3333 Jaeckle Drive, Suite 120 Wilmington, NC 28403 910.341.7600 615 South College Street, Suite 8-158

> Charlotte, NC 28202 980.270.9100 **Maryland** 312 West Main St, Suite 300

> > Salisbury, MD 21801

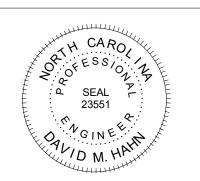
410.546.9100 <u>Delaware</u> 309 S Governors Ave Dover, DE 19904 302.734.7950

The Tower at STAR Campus 100 Discovery Boulevard, Suite 102 Newark, DE 19713 302.369.3700 www.beckermorgan.com



Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266





CFCC Surf City **Bldg SA Addition**

621 NC HWY 210E. HAMPSTEAD, NC

SCO ID# 24-28220-01A

PRELIMINARY

DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR ISSUED: 11.26.2024

MECHANICAL ABBREV.'s, LEGEND, & MECHANICAL SUMMARY

ISSUE BLO	CK	
2	11.26.2024	SCO CONSTRUCTION DOCUMENTS
1	11.11.2024	GMP RICING
Mark	Date	Description
PROJ	ECT NO:	2024077.00

11.26.2024 SCALE: As indicated DRAWN BY: GRM PROJ MGR: DMH

DATE:

M-001

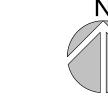
KEYNOTES

- TRANSITION TO RTU01 DUCT CONNECTIONS.
- TRANSITION TO RTU02 DUCT CONNECTIONS. TRANSITION TO RTU03 DUCT CONNECTIONS.
- 4 TRANSITION TO RTU04 DUCT CONNECTIONS. 5 TRANSITION TO DOAS01 DUCT CONNECTIONS. 6 PROVIDE TURNING VANES IN ALL 90° ELBOWS.

FLOOR PLAN SHEET NOTES

- MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS FOR INDOOR EQUIPMENT.
- MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO BEGINNING WORK. REFER TO ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY UL NUMBERS (WALLS, FLOOR /
- CEILINGS, ETC.. COORDINATED CONDENSATE PIPE ROUTING WITH GENERAL CONTRACTOR AND OWNER, TYPICAL. CONCERNING DIFFUSER LAYOUT AND CEILING
- TYPE, REFER TO ARCHITECTURAL PLANS FOR FURTHER INFORMATION.
- IN GENERAL, LOCATE VAV TERMINALS ABOVE DOOR SWING TO ASSURE CONTINUED ACCESS.





PLAN-ORIENTATION

PLAN-NORTH

CONSTRUCTION LEGEND

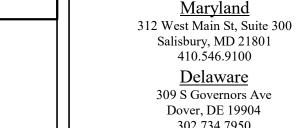
TRUE-NORTH

1-HR FIRE PARTITION

•

2-HR FIRE WALL

1-HR FIRE BARRIER



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G R O U P

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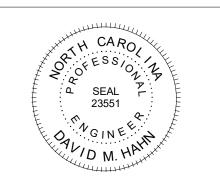
980.270.9100 **Maryland**

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Engineers, PLLC

2246 Yaupon Drive Wilmington, NC 28401 Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com © Copyright 2024 CBHF Engineers, PLLC NC# P-0506





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621 NC HWY 210E, HAMPSTEAD, NC

ISSUED:

SCO ID# 24-28220-01A

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MECHANICAL FLOOR PLAN - HVAC

2 11.26.2024 SCO CONSTRUCTION DOCUMENTS

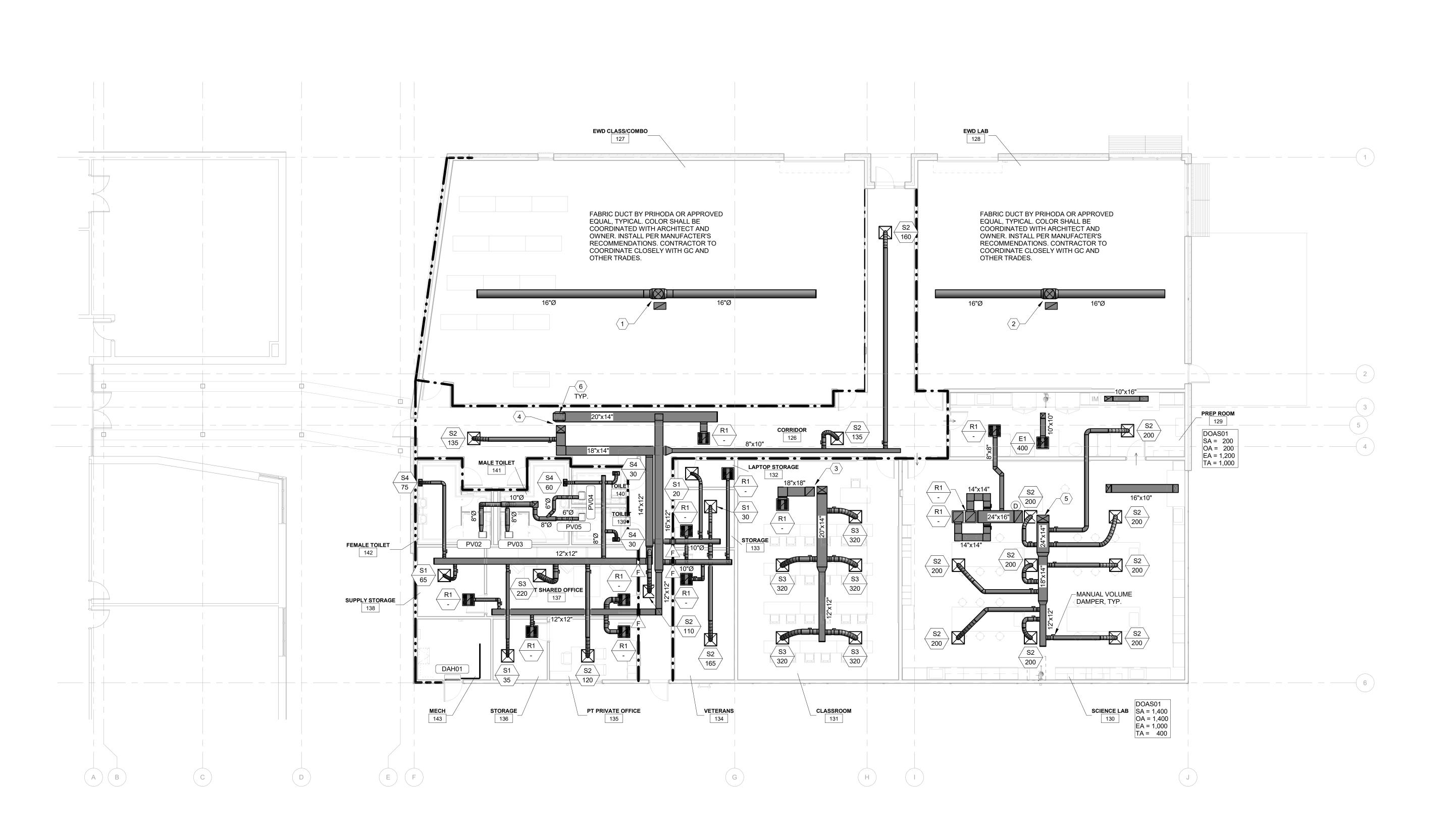
1 11.11.2024 GMP RICING
Mark Date Descrip PROJECT NO:

SCALE: 1/8" = 1'-0"

As indicated DRAWN BY: GRM PROJ MGR: DMH

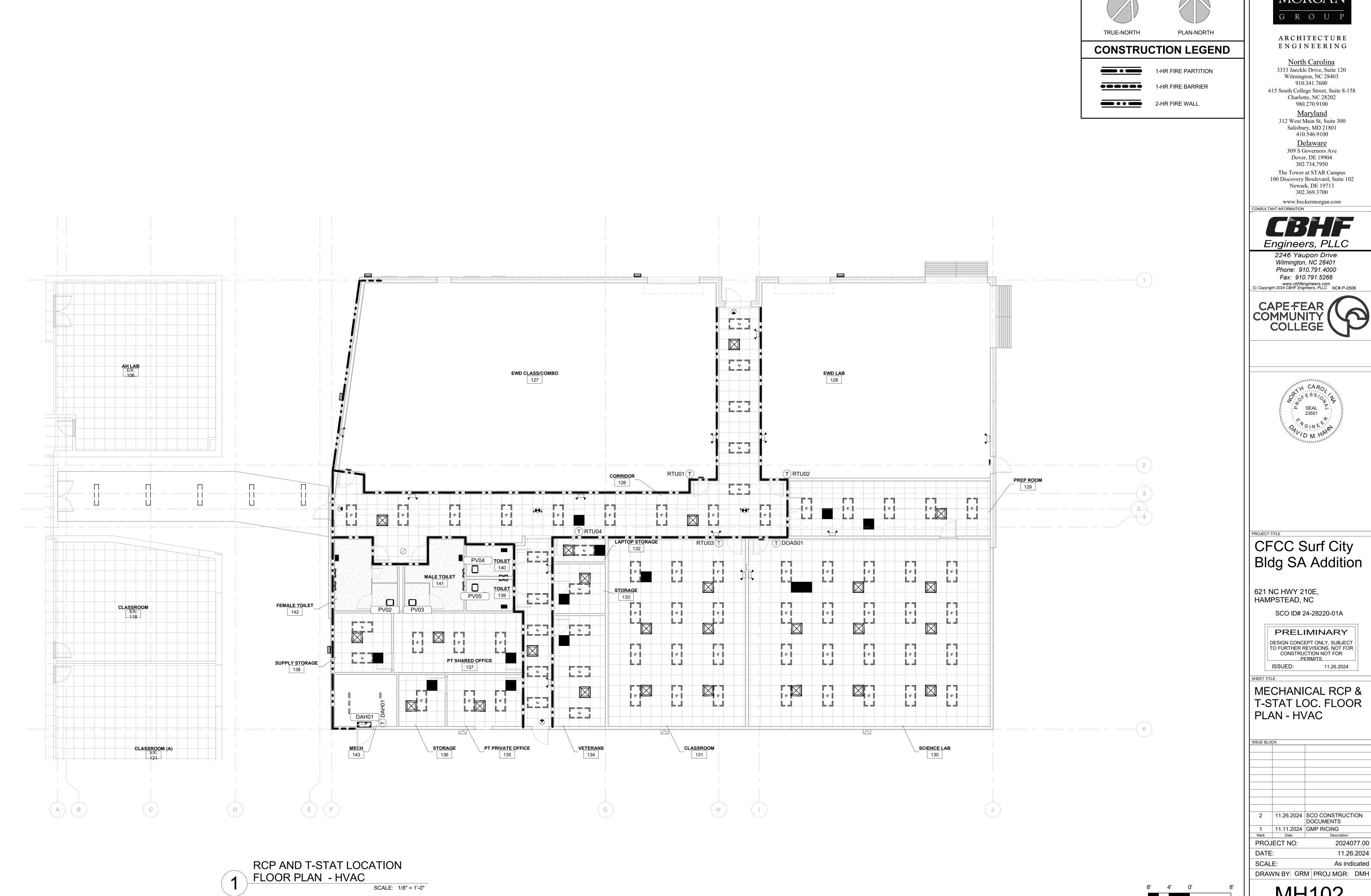
2024077.00 11.26.2024

MH101

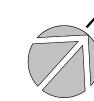


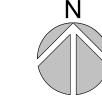
FLOOR PLAN - HVAC

SCALE: 1/8" = 1'-0"









100 Discovery Boulevard, Suite 102

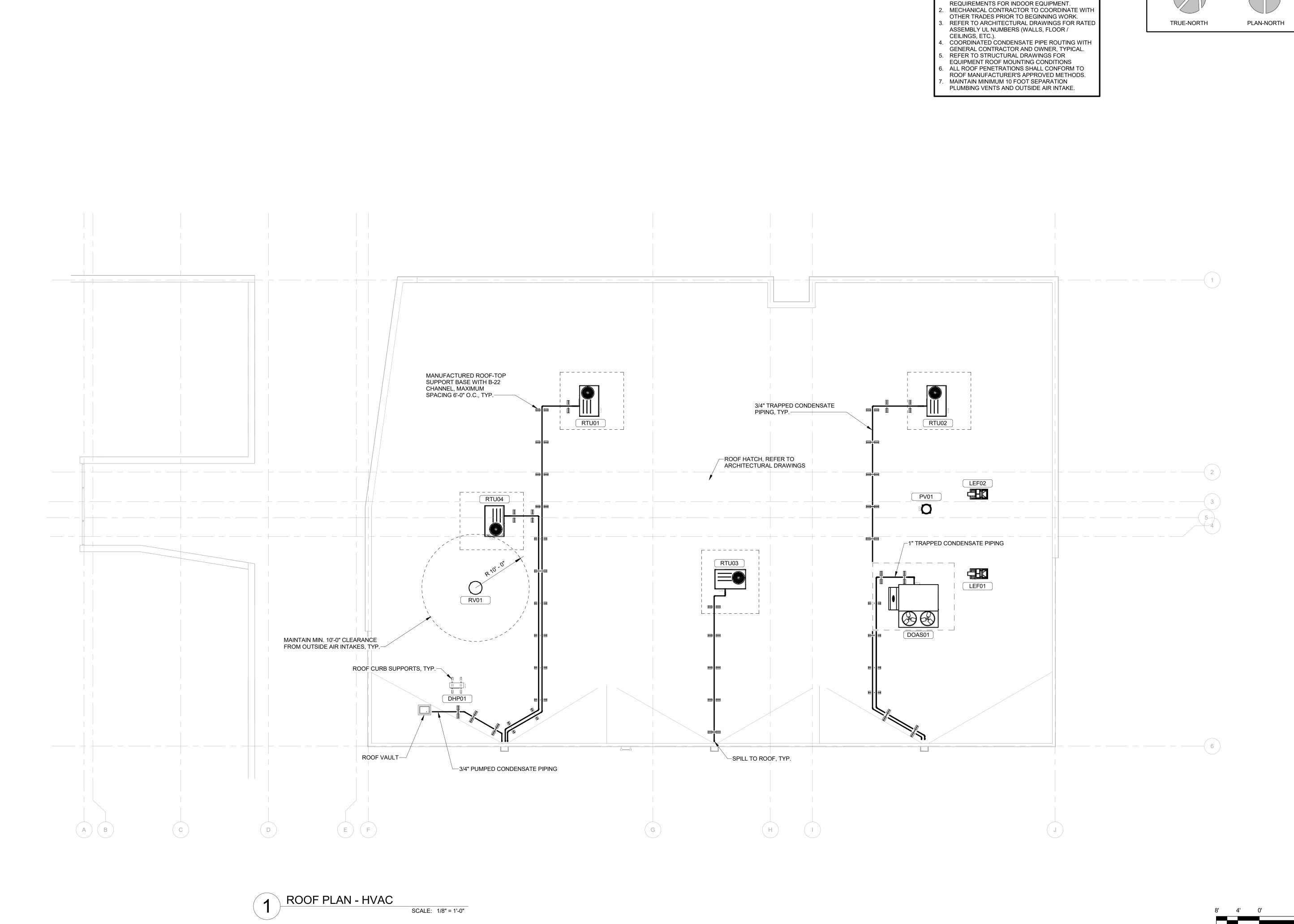


MECHANICAL RCP & T-STAT LOC. FLOOR

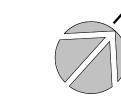
As indicated DRAWN BY: GRM PROJ MGR: DMH

SCALE : 1/8" = 1'-0"

MH102



PLAN-ORIENTATION



ROOF PLAN SHEET NOTES

MAINTAIN MANUFACTURER'S CLEARANCE







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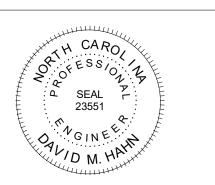
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MECHANICAL ROOF PLAN - HVAC

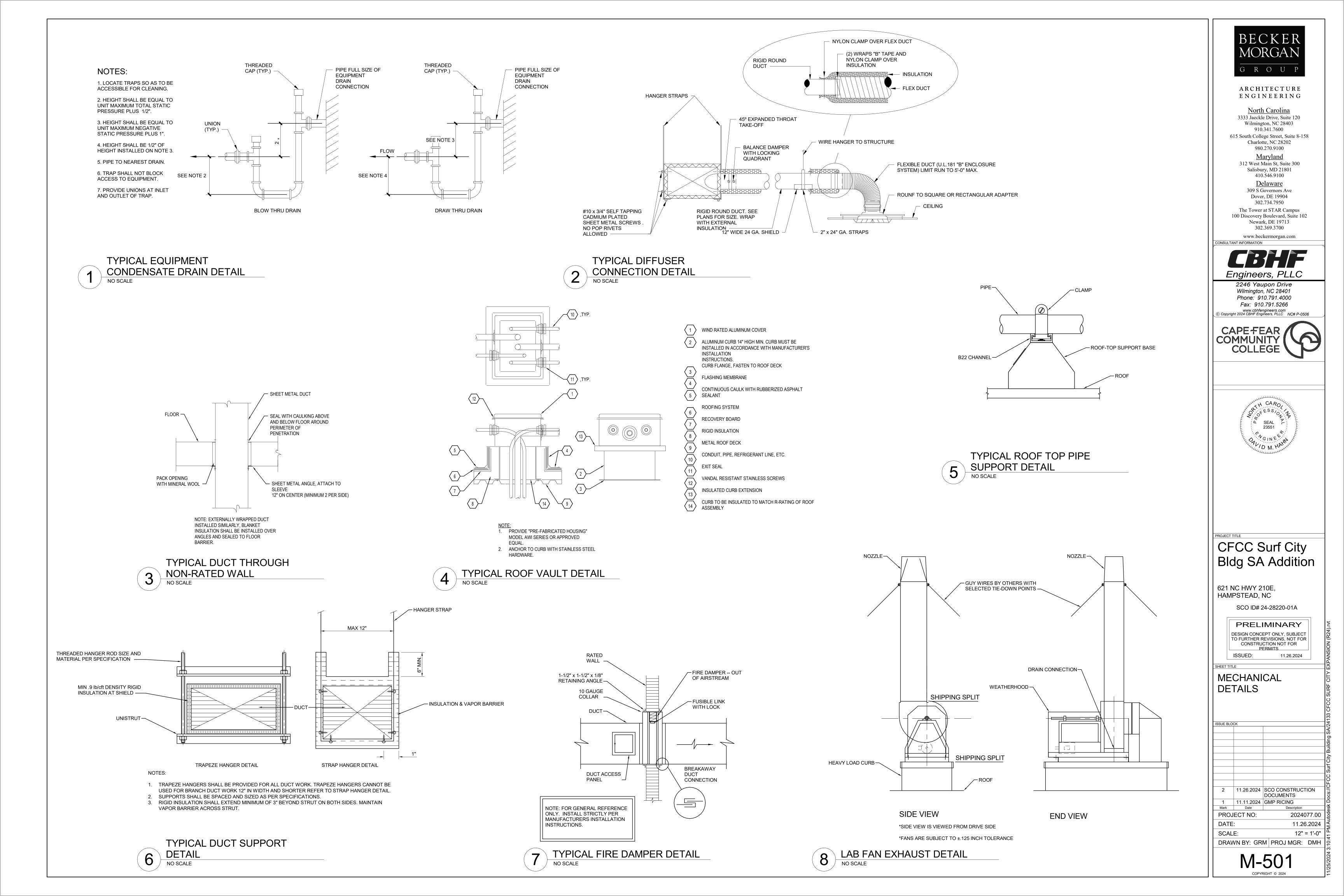
2 11.26.2024 SCO CONSTRUCTION DOCUMENTS

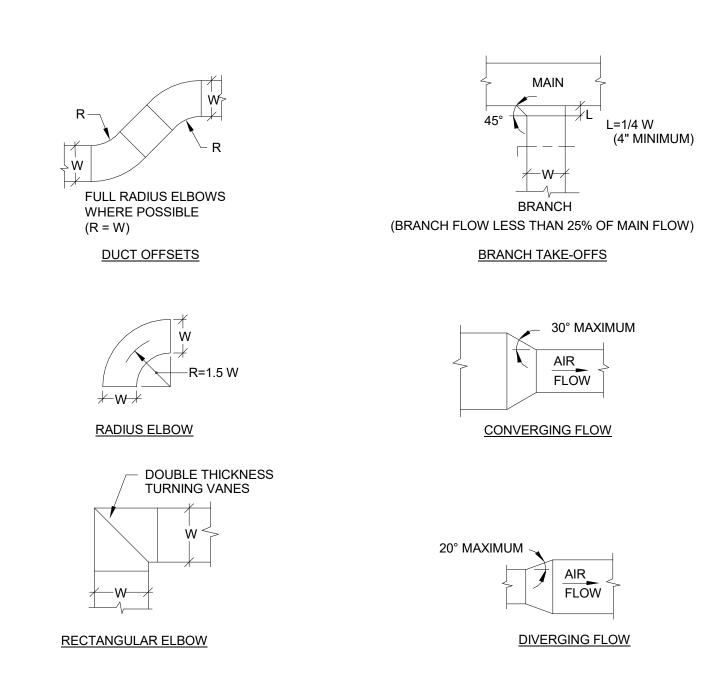
1 11.11.2024 GMP RICING
Mark Date Descrip 2024077.00 PROJECT NO:

SCALE : 1/8" = 1'-0"

11.26.2024 As indicated DRAWN BY: GRM PROJ MGR: DMH

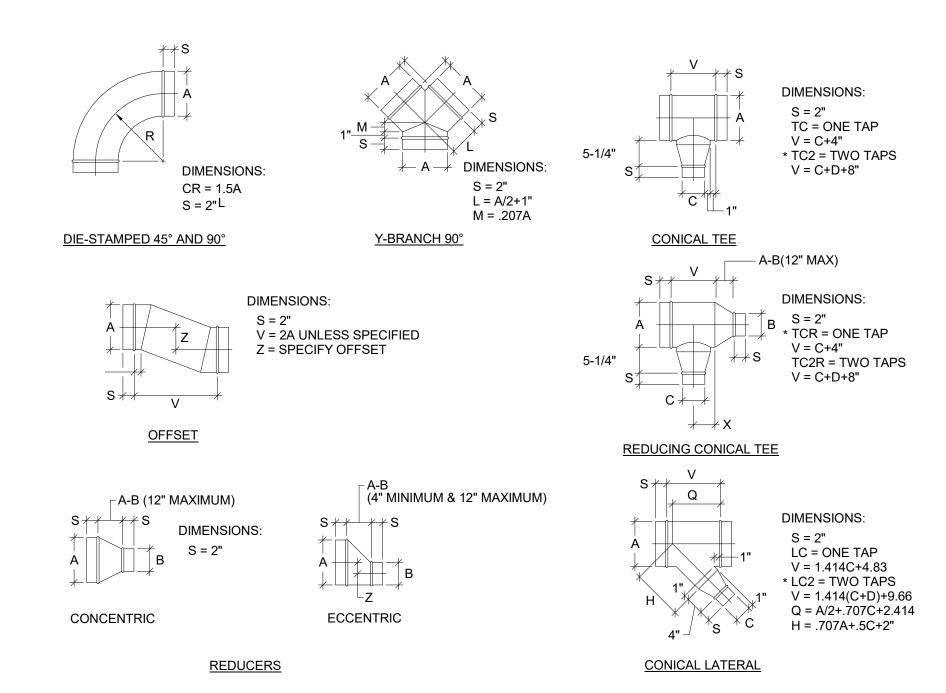
MH103



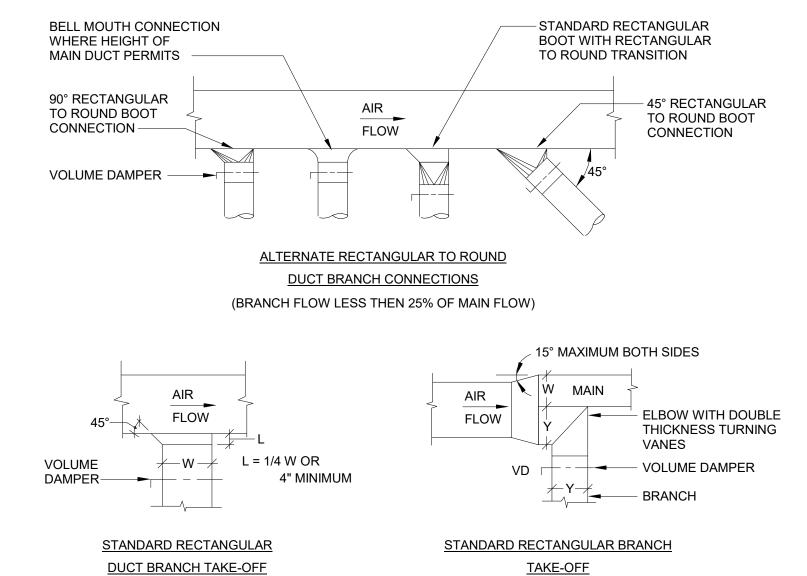


RECTANGULAR DUCT FITTING

DETAILS NO SCALE



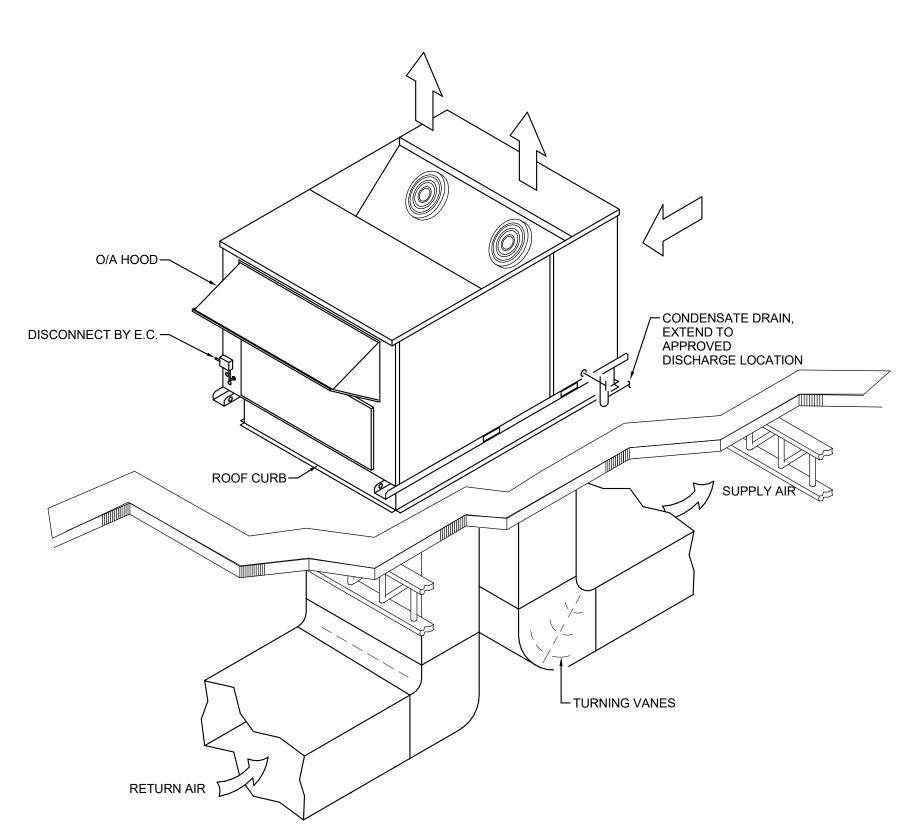
ROUND DUCT FITTING DETAILS

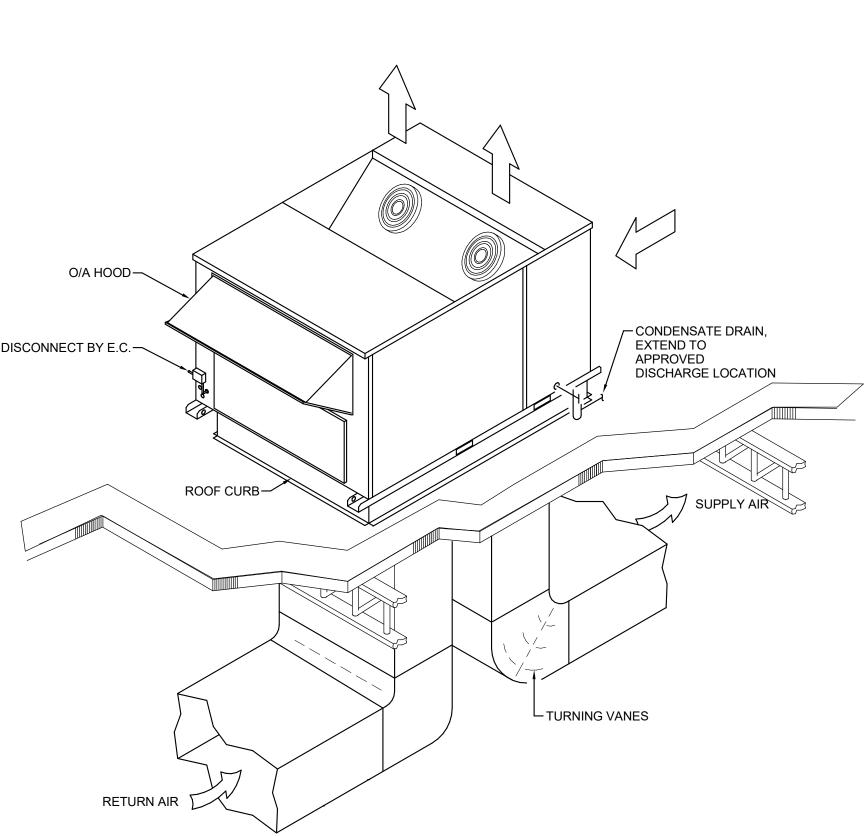


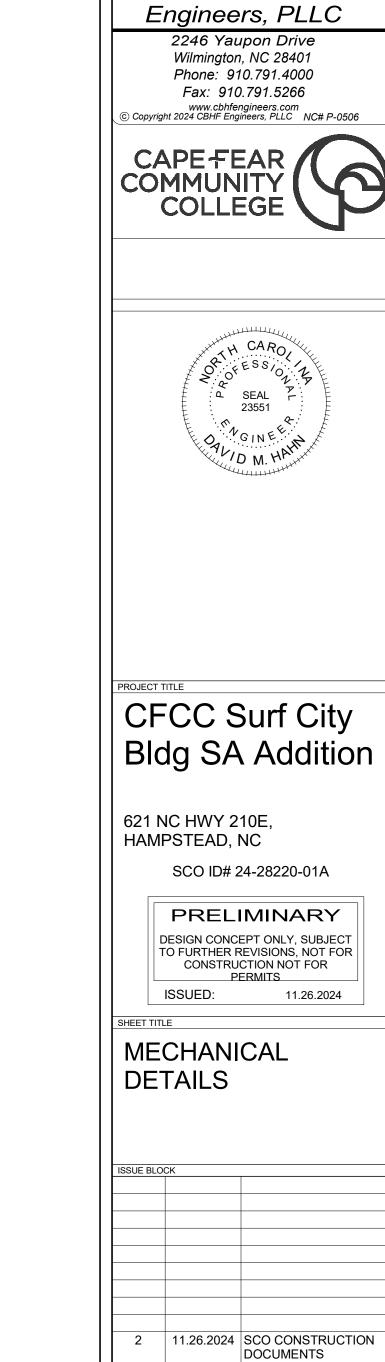
(BRANCH FLOW GREATER THAN 25% OF MAIN FLOW)



(BRANCH FLOW LESS THAN 25% OF MAIN FLOW)







1 11.11.2024 GMP RICING

DRAWN BY: GRM PROJ MGR: DMH

M-502

2024077.00 11.26.2024

12" = 1'-0"

PROJECT NO:

G R O U P

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TYPICAL ROOF MOUNTED HEAT PUMP DETAIL

DRAWING CODE	BASIS OF DESIGN	BASIS OF DESIGN	ALTERNATE APPROVE	D SYSTEM TYPE	COOLIN	G (AHRI STA	NDARD)		HOT GAS REHEAT		EATING (AHRI STANDARD)	AUXILIARY	HEATER EVAPO	RATOR FAN			ELECTRICAL					OTES AC	CCESSORIES
	MANUFACTURER	MODEL	MANUFACTURERS		TOTAL (MBH)	SENSIBLE (MBH)	EFFICIENCY	,	REHEAT CAPACITY (MBH)	COOLING LDB W/ REHEAT (°F)	OTAL EFFICIENCY (AHI	RI 47°F) ELECTRIC (KW) SUPPL (CFM)	Y AIRFLOW OUTSIDE A	IRFLOW (SP IN. WG.)	POWER SUPPLY V/PH/HZ)	MCA MG (A) (A		[LBS.)		
RTU01	AMERICAN STANDARD	WSK060A4	TRANE, DAIKIN	HEAT PUMP	57.5	45.2	EER	12.0	22.5	71.8	53.6 COP	3.5	12.0	2,000	450	1.16	460/3/60	34.0	35	R-454B	900	1,2	A THRU N
RTU02	AMERICAN STANDARD	WSK060A4	TRANE, DAIKIN	HEAT PUMP	57.5	45.2	EER	12.0	22.5	71.8	53.6 COP	3.5	12.0	2,000	370	1.16	460/3/60	34.0	35	R-454B	900	1,2	A THRU N
RTU03	AMERICAN STANDARD	WSK048A4	TRANE, DAIKIN	HEAT PUMP	48.6	37.1	EER	12.0	25.2	68.1	45.6 COP	3.5	12.0	1,600	265	1.16	460/3/60	32.0	35	R-454B	900	1,2	A THRU N
RTU04	AMERICAN STANDARD	WSK048A4	TRANE, DAIKIN	HEAT PUMP	58.6	37.1	EER	12.0	25.2	68.1	45.6 COP	3.5	12.0	1,600	205	1.16	460/3/60	32.0	35	R-454B	900	1,2	A THRU N
NOTES:	1 REFER TO SPECIFICATION	ONS FOR FURTHER I	NFORMATION.																<u>, </u>		<u>'</u>		
	B CORROSION COATING C C CONDENSATE OVERFLO D STAINLESS STEEL DRAII E HINGED ACCESS DOORS F MULTI-SPEED INDOOR F G TWO-INCH MERV 8 MEDI H BACNET COMMUNICATIO	OW SWITCH N PAN S SAN SYSTEM IA FILTERS		000 HOUR SALT SPR	Y RATING																		

DRAWING CODE (IDU / OD		BASIS OF DESIGN MODEL (IDU / ODU)	ALTERNATE	INDOOR UNIT CONFIGURATION	SYSTEM TYPE	ARI COOLIN		HEATING			INDOOR UNI	Т	•		OUTDOOF	UNIT			REFRIGERANT	_			NOTES	ACCESSORIE
	MANUFACTURER		APPROVED MANUFACTURERS			80/67/95	70/47	7	SEER2	HSPF2	FAN	ELECTRI	CAL	WEIGHT	F ELECTRIC	AL		WEIGH	IT PIPIING		TYPE			
			WANDI ACTORERS			TOTAL MIN (MBH) (MB					SA MIN-MAX (CFM)	VOLTAGE (V/PH/HZ		(LBS)	VOLTAGE (V/PH/HZ)	1	MOCP (A)	(LBS)	MAXIMUM LENGTH (FT.)	MAXIMUM HEIGHT DIFFERENTIAL (FT.	.)			
DAH01 / DHP01	MITSUBISHI	NTXWST09B112 / NTXSST09B112	DAIKIN, LG	WALL MOUNTED	HEAT PUMP	9.0	3.6	10.9	28.4	10.9	135-380	208/1	/60 1.	.0 25	5 208/1/6	0 10.0) 1:	5 8	30 6	65 40	0	R-410A	1	1 A,B
NOTES:	1 REFER TO SPECIFIC	CATIONS FOR FURTHER INFORMATION.					.,			1			-			'	-1		,		1	1		
	2 ELECTRICAL CONT	RACTOR TO PROVIDE CONDUIT AND CO	NDUCTOR FROM OUT	DOOR UNIT TO INDOOR UNIT.																				
ACCESSORIES:	A SEACOAST COATIN	IG PROTECTION ON OUTDOOR UNIT.																						
	B ROOF MOUNTING F	RAILS AND ACCESSORIES																						
	C WIRED WALL-MOUN	NTED REMOTE CONTROLLER																						

DRAWING CODE	BASIS OF DESIGN		ALTERNATE APPROVED	FAN TYPE	SERVICE	DRIVE TYPE	CURB DAMP			CAPACITIES			ELECTRICA	AL .				٤	SONES V	/EIGHT N	OTES A	CCESSORIES
	MANUFACTURER	DESIGN MODE	L MANUFACTURERS				HEIGHT (IN)	E			ESP (IN. WG.)		MOTOR TYPE	MOTOR SIZE (W)	MOTOR SIZE (HP		FLA MCA (A)	MOCP (A)	(L	LBS.)		
PV01	GREENHECK	CUE-090-VG	TWIN CITY, PENNBARRY	CENTRIFUGAL VENTILATORS - ROOF UPBLAST	EXHAUST	DIRECT	12 BA	CKDRAFT	TENV	400	0.50	1,457	1,725 ECM		- 1/6	208/1/60	1.3 2.0) 15	6.8	35	1,3	A,B,C,E
PV02	GREENHECK	SP-B150	TWIN CITY, PENNBARRY	CEILING-MOUNTED VENTILATORS	EXHAUST	DIRECT	- BA	CKDRAFT	ODP	140	0.50	990	- ECM	1	28	- 120/1/60	1.8		3.0	15	1,2	A,B,C,E
PV03	GREENHECK	SP-B150	TWIN CITY, PENNBARRY	CEILING-MOUNTED VENTILATORS	EXHAUST	DIRECT	- BA	ACKDRAFT	ODP	140	0.50	990	- ECM	1	28	- 120/1/60	1.8		3.0	15	1,2	A,B,C,E
PV04	GREENHECK	SP-B110	TWIN CITY, PENNBARRY	CEILING-MOUNTED VENTILATORS	EXHAUST	DIRECT	- BA	ACKDRAFT	ODP	70	0.50	777	- ECM		30	- 120/1/60	1.2	-	2.0	15	1,2	A,B,C,E
PV05	GREENHECK	SP-B110	TWIN CITY, PENNBARRY	CEILING-MOUNTED VENTILATORS	EXHAUST	DIRECT	- BA	ACKDRAFT	ODP	70	0.50	777	- ECM		80	- 120/1/60	1.2		2.0	15	1,2	A,B,C,E
NOTES: 1	REFER TO SPECIF	FICATIONS FOR F	FURTHER INFORMATION.																			
2	CONTROLLED VIA	OCCUPANCY SE	ENSOR. REFER TO ELECTRICAL	L PLANS.																		
3	CONTROLLED VIA	ON/OFF SWITCH	H (DURING OPERATION OF AUT	OCALVE). REFER TO ELECTRICAL PLANS.																		
ACCESSORIES: A	BIRDSCREEN																					
Е	ROOF CURB W/ S	EAL																				
C	GRAVITY DAMPER	₹																				
Г	D PERMATECTOR C	OATING OR APPI	ROVED EQUAL																			
	E UNIT MOUNTED S																					

DIVAMING CODE	LOCATION	AREA SERVED	SERVICE	DESIGN BASIS	MODEL	ALTERNATE APPROVED	FAN EX	HAUST			DISCHARGE	SUPPLY FAN					NOTES:	ACCESSORIES
				MFR		MFRS	MAX	BYPASS MAX O	UTLET VEL. MIN	S.P.	EFFECTIVE PLUME HT	TIP SPEED	MAX RPM	MOTOR		(TOTAL)		
							(CFM)	(CFM) (F	PM)	(IN. H20)	(FT)	(FPM)		H.P. VC	OLTAGE FL	A		
LEF01	ROOF	130 SCIENCE LAB	PURGE EXH.	GREENHECK	FJI-10-BI-X	TWIN CITY, PENNBARRY	1,000	-	1,940	6 1.15	11.8	6,172	2 4,050	1.0	208/3/60	- 29	0 1,2	2 A THRU
LEF02	ROOF	129 PREP ROOM	PURGE EXH.	GREENHECK	FJI-10-BI-X	TWIN CITY, PENNBARRY	1,000	-	1,94	6 1.15	11.8	6,172	4,050	1.0	208/3/60	- 29	0 1,2	2 A THRU
NOTES:		SPECIFICATIONS FOR F																
		D DESIGN SUBMITTALS: CATION /ASSEMBLY AND				RFORMANCE REQUIREMENTS A	AND DESI	GN CRITERIA, INC	LUDING ANALYS	SIS DATA SI	GNED AND SEALED BY T	HE QUALIFIED PRO	DFESSIONAL	. ENGINEE	ER RESPONS	SIBLE FOR T	HEIR PREPAI	RATION. PROVIDE
	DETAIL FADRI	JATION/ASSEMBLT AME	DESIGN CALCULA	ATIONS FOR GUT-	WIRES.													
ACCESSORIES:	A. MOTOR VFI	D RATED WITHOUT SHA	FT GROUNDING PF	ROTECTION														
	B. COATED W	ITH PERMATECTOR, CO	NCRETE GRAY-RA	L 7023, FAN AND A	ATTACHED ACC	ESSORIES												
		ITH PERMATECTOR, CO IEMA-3R, TOGGLE	NCRETE GRAY-RA	L 7023, FAN AND A	ATTACHED ACC	ESSORIES												
	C. SWITCH - N																	
	C. SWITCH - N	IEMA-3R, TOGGLE INLET BOX WITH ACCES																
	C. SWITCH - N D. CURB CAP E. ACCESS DO	IEMA-3R, TOGGLE INLET BOX WITH ACCES																
	C. SWITCH - N D. CURB CAP E. ACCESS DO F. DAMPER, G	IEMA-3R, TOGGLE INLET BOX WITH ACCES DOR - BOLTED	SS DOOR, DAMPER															
	C. SWITCH - N D. CURB CAP E. ACCESS DO F. DAMPER, G G. DRAIN CON	IEMA-3R, TOGGLE INLET BOX WITH ACCES DOR - BOLTED RAVITY, ALUMINUM	SS DOOR, DAMPER															
	C. SWITCH - N D. CURB CAP E. ACCESS DO F. DAMPER, G G. DRAIN CON	IEMA-3R, TOGGLE INLET BOX WITH ACCES DOR - BOLTED RAVITY, ALUMINUM INECTION - 1" PIPE THRI AD ROOF CURB	SS DOOR, DAMPER															



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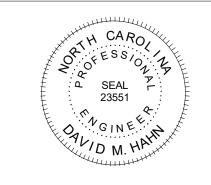
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MECHANICAL SCHEDULES

ISSUE BLO	CK	
2	11.26.2024	SCO CONSTRUCTION

DRAWN BY: GRM PROJ MGR: DMH 0.

11.26.2024

M-601

RAWING CODE				SYSTEM TYPE	SA/OA FAN		DX C	OOLING			HG REHEAT	DX HEA	ATING		ELECTRIC HEA	T ELE	CTRICAL		RIG. WEIGHT	NOTES	ACCESSORIES
	MANUFACTURER		APPROVED MFR		SA OA E		MOTOR SALA	AT NET TO	NET SENS	EFFICIENCY	SA LAT CAP	SA LAT	TOT CAP EF	FICIENCY	SA LAT INPU	T VOI	TAGE MCA	MOCP TYP	E (LBS)		
					(CFM) (CFM) (I	,	(HP) (°F/°F		CAP (MBH)		(°F) (MBH	, , ,	(MBH)		(°F) (KW)		PH/HZ) (A)	(A)			
DAS1	AAON	RNA-015-B	TRANE, DAIKIN	HEAT PUMP	1,800 1,800	1.75 1	1 95.0	0/75.0 161.	9 94.	4 EER 10	6 72.0 5	3.0 84.6	135.2 CC	P 3.3	98.0	40.0	460/3/60 6	3.0 70 R-	454B 1,962	1,2,3,4	A THRU
DTES:	1 REFER TO DIVISION	ON 23 SPECIFICATION	ONS FOR ADDITIONAL INFO	ORMATION.																	
	2 VERTICAL DISCHA	ARGE / VERTICAL RI	ETURN.																		
	3 ALL COILS TO BE	COATED FOR EXPO	SURE TO ASTM B117-90 1	0,000 HOUR SALT SP	RAY RESISTANCE TES	T WITH NO DEGF	RADATION.														
	4 EFFICIENCY RATE	ED IN ACCORDANCE	WITH ANSI/AHRI STANDA	RD 340/360.																	
CCESSORIES:	A WARRANTY: 5-YE	AR DIGITAL/VARIAB	LE SPEED/STANDARD SCF	ROLL COMPRESSOR	25-YEAR HEAT EXCH	ANGER															
	B REHEAT: FIN & TU	JBE MODULATING H	GRH - ECO-COATED WITH	S/S COIL CASING																	
	C COMPRESSOR: D	IGITAL SCROLL-1ST	CIRCUIT ONLY																		
	D OUTDOOR COIL T	YPE: ASHP FIN & TU	JBE																		
	E CAPACITY CONTR	ROL: R-454B - LOW G	SWP REFRIGERANT & NO F	RCC VALVE																	
	F HEAT TYPE - PRIM	MARY: ELECTRIC - S	CR MODULATING																		
	G UNIT CONTROLS:	SPACE CONTROL -	UC600																		
	H BUILDING INTERF	ACE: BACNET																			
	FILTER OPTIONS:	MERV-8,30%																			
	J DAMPER OPTION	S: MODULATING OA	& RA DAMPERS W/ECONO	MIZER																	
	K CORROSIVE ENV	IRONMENT PACKAG	E: CORROSION RESISTAN	T PACKAGE																	
	L ACTIVE (VFD) HEA	AD PRESSURE LOW	AMBIENT CONTROL																		
	M HAILGUARDS																				
	N CONTROLS DISPL	AY: TD7 FACTORY I	NSTALLED																		
	O COOLING CONTR	OLS: RELIATEL																			
	P THERMOSTAT: TH	HUMBWHEEL THERN	MOSTAT																		
	Q CONDENSATE OV	ERFLOW SWITCH: (CONDENSATE OVERFLOW	SWITCH																	
	R DAMPER LEAKAG	E CLASSIFICATION:	CLASS 1A																		
	S 2 INCH DOUBLE V	VALL CONSTRUCTION	N																		
	T STAINLESS STEE	L DRIP PAN																			
	U BAYSENS074 THE	RMOSTAT AND BAY	SENS036 HUMIDISTAT OR	APPROVED EQUAL																	
	V ROOF CURB - STA	ANDARD KNOCKDOV	VN TYPE																		

DRAWING CODE			ALTERNATE APPROVED	TYPE	CONSTRUCTION	ROOF C	URB	SC	REENING	FINISH	CAPACITIES	S AND C	HARACTERIST	TCS				NOTES	ACCESSORIES
	MANUFACTURER	DESIGN MODEL	MANUFACTURERS		MATERIAL	CONFIGURATION	HEIGHT (IN.)	TYPE	MATERIAL		AIRFLOW (CFM)	HEIGHT (IN)	DIAMETER (IN)	BASE (IN)	THROAT AREA (SQ. FT)	AIR VELOCITY (FPM)	PRESSURE DROP (IN. WG.)		
RV01	GREENHECK	GRSR-12	CARNES, LOREN COOK	EXHAUST	ALUMINUM	FLAT		12 BIRD	GALVANIZED	ANODIZED	420	11.	.75	29 2	2 0.8	32 51	2 0.0	03	1 A,B,
NOTES:	1 REFER TO	1			-													•	
ACCESSORIES:	A GRAVITY BACKDE	RAFT DAMPER																	
	B ROOF CURB																		
	C BIRD SCREEN																		

DILLOSE	:K5, KEGI5	IEKS /	AND GRILL	ES SCHEDULE								
DRAWING CODE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALTERNATE APPROVED MANUFACTURERS	TYPE	SERVICE	NECK SIZE (IN.)	MODULE SIZE (IN.)	MATERIAL	FINISH	MOUNTING	NOTES	ACCESSORIES
S1	GREENHECK	CDS	PRICE, TITUS	SQUARE CEILING DIFFUSER	SUPPLY	6%%C	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3	Α
S2	GREENHECK	CDS	PRICE, TITUS	SQUARE CEILING DIFFUSER	SUPPLY	8%%C	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3	Д
S3	GREENHECK	CDS	PRICE, TITUS	SQUARE CEILING DIFFUSER	SUPPLY	10%%C	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3	Д
S4	GREENHECK	XG-H4004	PRICE, TITUS	LOUVER FACE DIFFUSER, DOUBLE DEFLECTION	SUPPLY	12 X 6	-	ALUMINUM	WHITE	CEILING SURFACE	1,2,3	Д
R1	GREENHECK	XG-RH	PRICE, TITUS	FIXED FACE GRILLE	RETURN	20 X 20	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3	Е
E1	GREENHECK	XG-RH	PRICE, TITUS	FIXED FACE GRILLE	EXHAUST	20 X 20	24 X 24	ALUMINUM	WHITE	T-BAR	1,2,3	Е
NOTES:	1 REFER TO SPECIF	CATIONS FO	R FURTHER INFORMA	ATION.	·	1	1	1		-		
	2 DUCT BRANCH CO	NNECTION S	IZE TO BE EQUAL TO	THE NECK SIZE OF DIFFUSER UNLESS NOTED OTHER	VISE ON PLAN	NS.						
	3 PAINT ALL VISIBLE	DUCTWORK	THROUGH GRILLES A	AND REGISTERS FLAT BLACK.								
ACCESSORIES:	A VOLUME DAMPER											
	B INSULATED PLENU	ІМ ВОХ										



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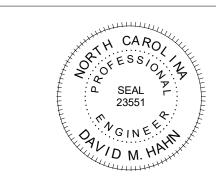
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FCT TITLE

CFCC Surf City Bldg SA Addition

621 NC HWY 210E, HAMPSTEAD, NC

SCO ID# 24-28220-01A

DESIGN CONCEPT ONLY, SUBJECT TO FURTHER REVISIONS, NOT FOR CONSTRUCTION NOT FOR PERMITS

ISSUED: 11.26.2024

MECHANICAL SCHEDULES

	ISSUE BLO	CK	
	2	11.26.2024	SCO CONSTRUCTION DOCUMENTS

2 11.26.2024 SCO CONSTRUCTION DOCUMENTS
1 11.11.2024 GMP RICING
Mark Date Description
PROJECT NO: 2024077.00

PROJECT NO:

DATE:

DRAWN BY: GRM PROJ MGR: DMH 70.6.8.45

11.26.2024

M-602

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