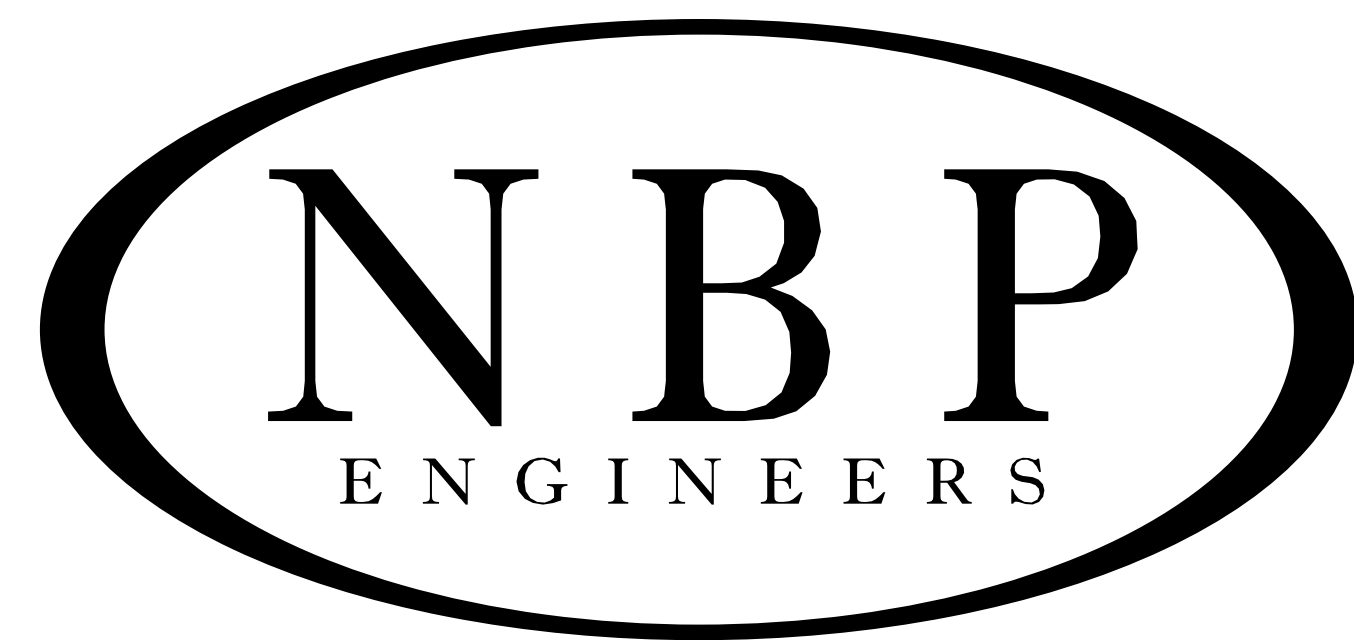


PROJECT No. NFC-04-2024

NFC BUILDING 8 HVAC REPLACEMENT

NORTH FLORIDA COLLEGE
MADISON, FLORIDA



NBP ENGINEERS, INC. CONSULTANTS

316 CORPORATE PARKWAY MACON, GEORGIA
478-745-1691 www.nbpengineers.com

PROJECT CONSULTANTS

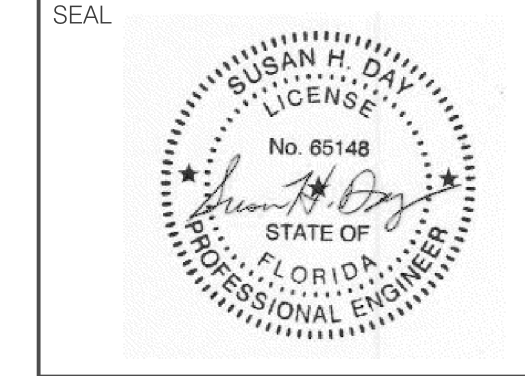
<u>SHEET NO.</u>	<u>TITLE</u>
A201	REFLECTED CEILING PLAN - NEW WORK
M001	ABBREVIATIONS, LEGENDS & SCHEDULES - HVAC
M101	BUILDING 8 - FLOOR PLAN - DEMOLITION - HVAC
M201	BUILDING 8 - FLOOR PLAN - NEW WORK - HVAC
M401	BUILDING 8 - EXISTING HEATING & CHILLED WATER FLOW DIAGRAMS - HVAC
E001	LEGEND AND SCHEDULES - ELECTRICAL
E101	BUILDING 8 - FLOOR PLAN - DEMOLITION - ELECTRICAL
E201	BUILDING 8 - FLOOR PLAN - NEW WORK - ELECTRICAL
E401	RISER DIAGRAMS AND DETAILS - ELECTRICAL



INDEX OF
DRAWINGS

BID SET OCTOBER 25, 2024

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No.	REVISIONS/SUBMISSIONS	DATE

No. REVISIONS/SUBMISSIONS DATE

PROJECT No. NFC-04-2024

NFC BUILDING 8 HVAC REPLACEMENT

NORTH FLORIDA COLLEGE

MADISON, FLORIDA

PROJECT TITLE:

SHEET TITLE:

DESIGNED:

DRAWN:

CHECKED:

DATE:

PROJECT NUMBER:

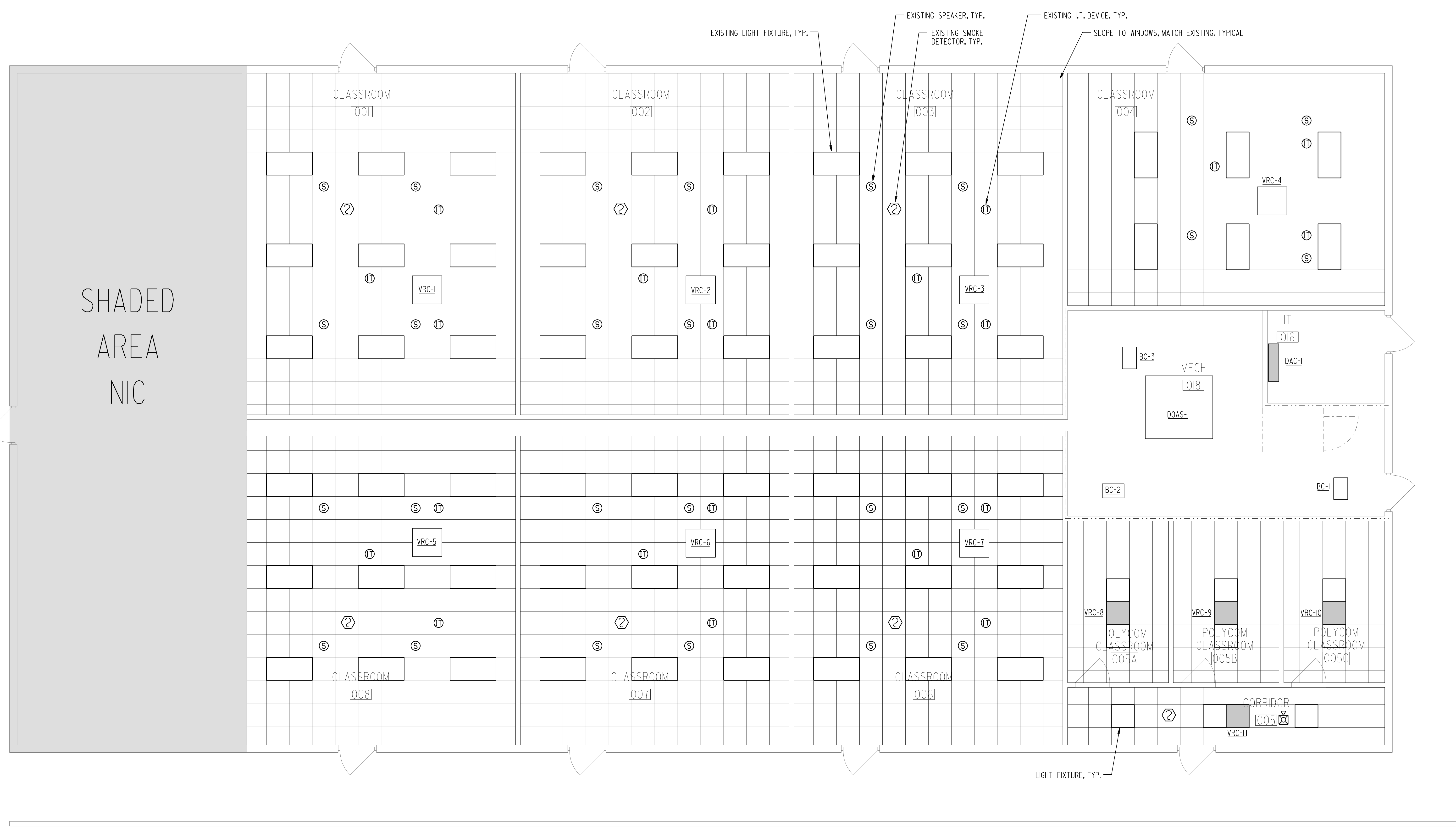
SCALE:

FILE PATH:

SHEET NUMBER:

A201

BID SET



CONTRACTOR SHALL SALVAGE AND PROTECT EXISTING WHOLE UNDAMAGED CEILING TILES AND TURN OVER TO THE OWNER.

- GENERAL NOTES:** (THIS SHEET ONLY)
- A REMOVE THE EXISTING CEILINGS IN THEIR ENTIRETY. EXISTING CEILING MOUNTED ELEMENTS SHALL REMAIN IN THE ROOMS, AND SHALL REMAIN CONNECTED TO THEIR SYSTEMS. SUPPORT THE CEILING ELEMENTS (LIGHT FIXTURES, SPEAKERS, LT. EQUIPMENT, FIRE ALARM DEVICES) FROM THE OVERHEAD STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED DEVICES OR LIGHT FIXTURES.
 - B THE LOCATION OF CEILING MOUNTED ELEMENTS VARY SLIGHTLY AMONG THE DIFFERENT CLASSROOMS. THE CONTRACTOR SHALL FIELD VERIFY ALL CEILING ELEMENTS BEFORE RELEASING CEILING MATERIALS, AND BEFORE BEGINNING WORK.
 - C COORDINATE WITH MECHANICAL FOR EXACT SIZE OF THE HVAC VRF CASSETTE ACTUALLY PROVIDED.



LINE LEGEND	
	EXISTING TO REMAIN
	NEW WORK

ABBREVIATIONS

A	COMPRESSED AIR	FC	FAN COIL UNIT	NIC	NOT IN CONTRACT
AAV	AUTOMATIC AIR VENT	FD	FLOOR DRAIN	NO	NORMALLY OPEN
AD	AREA DRAIN/ACCESS DOOR	FF	FOULING FACTOR	NTS	NOT TO SCALE
AE	ADJUSTABLE AIR EXTRACTOR	FF-	FLY FAN	O2	OXYGEN
AF	AIR FOIL	FF	FINISHED FLOOR	OA	OUTSIDE AIR
-AFF	ABOVE FINISHED FLOOR	FF	FINAL FILTER	OAD	OUTSIDE AIR DAMPER
AVD	AUTOMATIC VOLUME DAMPER	FFM	FIRE FLOW METER	OAL	OUTSIDE AIR LOUVER
AW	ACID WASTE	FLEX	FLEXIBLE	ODT	OUTDOOR TEMPERATURE
-AC	ABOVE CEILING	FMS	FLOW METER STATION	PC	PUMP CONDENSATE
AH-	AIR HANDLING UNIT	FOF	FUEL OIL FLOW	PD	PRESSURE DROP
BBD	BOILER BLOW DOWN	FOR	FUEL OIL RETURN	PRV	PRESSURE REDUCING VALVE
BE	BOTTOM ELEVATION	FOV	FUEL OIL VENT	PWF	PROPELLER WALL FAN
BOL	BOTTOM OF LINE (UNINSULATED)	FOP	FUEL OIL PUMP	R	REFRIGERANT
BOD	BOTTOM OF DUCT	FP	FIRE PUMP	RA	RETURN AIR
BP-	BOOSTER PUMP	FP-	FIRE PUMP	RAD	RETURN AIR DAMPER
BPD	BYPASS DAMPER	FPM	FEET PER MINUTE	RAO	RETURN AIR OPENING
BTUH	BRITISH THERMAL UNIT PER HOUR	FPS	FEET PER SECOND	RAS	RELIEF AIR SUPPLY
-BF	BELOW FLOOR	FRT	FLOW RATE TRANSMITTER	RP	RECIRCULATING PUMP
BFP	BACK FLOW PREVENTOR	FSD	FIRE/SMOKE DAMPER	RHG	REFRIGERANT HOT GAS
C	CONDUIT	FT	FEET	RL	REFRIGERANT LIQUID
CC	COOLING COIL	G	LOW PRESSURE GAS	RS	REFRIGERANT SUCTION
CHR	CHILLED WATER RETURN	GA	GAUGE	RD	ROOF DRAIN
CHS	CHILLED WATER SUPPLY	GPM	GALLONS PER MINUTE	RV	RELIEF VALVE
CR	CONDENSER WATER RETURN	GT	GREASE TRAP	SR	SHORT RADIUS
CS	CONDENSER WATER SUPPLY	GTH	GRAND TOTAL HEAT	SAN	SANITARY SEWER
CW	DOMESTIC COLD WATER	H	HEIGHT	SC	SILL COCK
CAB	CABINET FAN	HC	HEATING COIL	SCD	SMOKE DAMPER
CF	CENTRIFUGAL FAN	HB	HOSE BIBB	SCIM	STANDARD CUBIC INCHES PER MINUTE
CFM	CUBIC FEET PER MINUTE	HBT	HORIZONTAL BLOW THROUGH	SD	STORM DRAIN
CFP	CHEMICAL FEED PUMP	HD	HUB DRAIN	SD	SMOKE DETECTOR
CFT	CHEMICAL FEED TANK	HDT	HORIZONTAL DRAW THROUGH	SDO	STORM DRAIN OVERFLOW
CH	CABINET HEATER	HP	HORSEPOWER/HIGH PRESSURE	SF	SQUARE FEET
CHR	CHILLER	HPA	HIGH PRESSURE AIR	SG	SPECIALTY GAS
CL	CENTER LINE	HPG	HIGH PRESSURE GAS	SHC	SENSIBLE HEAT CAPACITY
CO	CLEANOUT	HPS	HIGH PRESSURE STEAM	SP	SPRINKLER PIPE
CP	CHILLER PUMP	HPWS	HEAT PUMP WATER SUPPLY	SP	STAND PIPE
CPHB	CHROME PLATED HOSE BIBB	HPWR	HEAT PUMP WATER RETURN	SP	SUMP PUMP
CT	COOLING TOWER	HSC	HORIZONTAL SPLIT CASE	SP	STATIC PRESSURE
CU	COPPER	HWG	HOT WATER GENERATOR	SPS	STATIC PRESSURE SENSOR
CV-	CONVECTOR	HWR	HEATING WATER RETURN	SST	SATURATED SUCTION TEMPERATURE
CV	VALVE COEFFICIENT	HWS	HEATING WATER SUPPLY	STA	STATION
D	DRAIN	ILC	IN-LINE CENTRIFUGAL	STR	STRAINER
DDC	DIRECT DIGITAL CONTROL	IT	INTERVAL TIMER	T	TEMPERED WATER
DHW	DOMESTIC HOT WATER	IN	INCHES	TR	TEMPERED WATER RETURN
DHR	DOMESTIC HOT WATER	INV	INVERT	TB	THRUST BLOCK
		JB	JUNCTION BOX	TE	TOP ELEVATION
DN	DOWN	L	LENGTH		(UNINSULATED)
DP	DIFFERENTIAL PRESSURE	LR	LONG RADIUS	TP	CONDENSER WATER (TOWER) PUMP
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	LAT	LEAVING AIR TEMPERATURE	TOS	TOP OF STRUCTURE
DS	DOWN SPOUT	LCP	LOCAL CONTROL PANEL	UC	UNDERCUT (DOOR - 3/4")
DSO	DOWN SPOUT OVER FLOW	LDB	LEAVING DRY BULB	UG	UNDERGROUND
DX	DIRECT EXCHANGE	LN	LIQUID NITROGEN	V	VENT
EA	EXHAUST AIR	LWB	LEAVING WET BULB	V-	VALVE
EAD	EXHAUST AIR DAMPER	LWT	LEAVING WATER TEMPERATURE	VAC	VACUUM PIPING
EAL	EXHAUST AIR LOUVER	LPS	LOW PRESSURE STEAM	VAV	VARIABLE AIR VOLUME
EAT	ENTERING AIR TEMPERATURE	MA	MIXED AIR	VB	VACUUM BREAKER
ECH	ELECTRIC CABINET HEATER	MAY	MANUAL AIR VENT	VDT	VERTICAL DRAW THROUGH
EDB	ENTERING DRY BULB	MVD	MANUAL VOLUME DAMPER	VFD	VARIABLE FREQUENCY DRIVE
EWB	ENTERING WET BULB	MAX	MAXIMUM	VT	VERTICAL TURBINE
ESP	END SUCTION PUMP	MBH	ONE THOUSAND BTUH PER HOUR	VTR	VENT THROUGH ROOF
ESP	EXTERNAL STATIC PRESSURE	MCC	MOTOR CONTROL CENTER	W	WIDTH
ELL	ELBOW	MIN	MINIMUM	W	WASTE
ET	EXPANSION TANK	MH	MAN HOLE	WB	WET BULB
EOT	EQUIPMENT TRAP SET	MP	SUMP (MUD) PUMP	WG	WATER GAUGE
EUH	ELECTRIC UNIT HEATER	MPS	MEDIUM PRESSURE STEAM	WH	WATER HEATER
EW	ELECTRIC UNIT HEATER	MPR	MEDIUM PRESSURE RETURN	WL	WATER LINE
EW	ENTERING WATER TEMPERATURE	MTS	MEDIUM TEMPERATURE SUPPLY	WM	WATER METER
EX	EXPANSION TANK LINE	MTR	MEDIUM TEMPERATURE RETURN	•C	DEGREES CENTIGRADE
EXT	EXTERNAL	MUA	MAKE-UP AIR	•F	DEGREES FAHRENHEIT
FOB	FLAT ON BOTTOM	MJW	MAKE-UP WATER		
FOT	FLAT ON TOP	MZ	MULTI ZONE		
F&BP	FACE & BYPASS	NC	NORMALLY CLOSED		

SINGLE LINE DUCT LEGEND

	DUCT (SUPPLY, RETURN & EXHAUST)
	DUCT WITH DUCT LINER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	DUCT RISE
	DUCT DOWN
	VOLUME DAMPER (MANUAL UNLESS INDICATED A.V.D.)
	TRANSITION
	DUCT TAKE-OFF (SEE SPEC. PERTAINING TO DEFLECTROLS)
	TRANSITION (FLAT ON TOP)
	TRANSITION (FLAT ON BOTTOM)
	TRANSITION (TOP OR BOTTOM ONLY)
	SUPPLY CEILING DIFFUSER
	RETURN OR EXHAUST CEILING GRILLE
	SIDEWALL SUPPLY
	SIDEWALL RETURN
	FLEXIBLE CONNECTION (DUCT)
	RELIEF AIR SUPPLY TO TOILET
	DUCT SPLIT WITH SPLITTER DAMPER
	FLEX. DUCT WITH SCREW ON COLLAR, TAKE-OFF
	SQUARE ELBOW WITH TURNING VANES
	RADIUS ELBOW (SEE SPECS. PERTAINING TO TURNING VANES)
	AUTOMATIC VOLUME DAMPER
	SMOKE CONTROL DAMPER
	COMBINATION FIRE/SMOKE CONTROL DAMPER
	FIRE DAMPER
	FIRE DAMPER (FD)

HVAC LEGEND

	ROUND OR FLAT OVAL DUCT		DOUBLE WALL INSULATED ROUND OR FLAT OVAL DUCT (K)
	DUCT/PLENUM w/LINER		FLEX. DUCT CONN.
	DAMPER - BLADE VIEW		DAMPER - END VIEW
	FIRE DAMPER		ELBOW WITHOUT TURNING VANES
	ELBOW WITH TURNING VANES		DUCT SPLIT
	ADJUSTABLE AIR EXTRACTOR		INSULATED FLEX. DUCT
	DUCT SIZE FIRST DIMENSION IS SIDE SHOWN		DOOR GRILLE
	THERMOSTAT		C.F.M.
	THERMOSTAT w/GROUND		REFERS TO DETAIL OR PLAN ON SHEET M-L
	INTERVAL TIMER		GATE VALVE THREADED & FLANGED
	BALANCE VALVE THREADED & FLANGED		BUTTERFLY VALVE THREADED & FLANGED
	GLOBE VALVE THREADED & FLANGED		2-WAY MOTORIZED VALVE
	CHECK VALVE THREADED & FLANGED		RELIEF VALVE
	CONTROL VALVE PLAN VIEW		FLANGED UNION
	3-WAY MIXING VALVE		BRANCH OUT BOTTOM
	SOLENOID VALVE		TEE OUT BOTTOM
	GATE VALVE WITH 3/4" HOSE END		ELBOW DOWN
	UNION		THERMOMETER
	BRANCH OUT TOP		ECCENTRIC REDUCER
	TEE OUT TOP		PIPE SLEEVE
	ELBOW UP		MANUAL AIR VENT
	GAUGE TAPPING		BLIND FLANGE
	GAUGE WITH TAPPING		PIPE SOCKET WELL
	CONCENTRIC REDUCER		COMBINATION STARTER
	PIPE ANCHOR		PIPE TEST PLUG
	PIPE CAP		ANNULAR ELEMENT FLOW STATION
	AUTOMATIC AIR VENT		CHILLED WATER FLOW
	STRAINER		CHILLED WATER RETURN
	FLEX. PIPE CONN.		HOT WATER DOMESTIC
	BACKFLOW PREVENTER		CONDENSER WATER FLOW
	FLOW INDICATOR BALANCER		CONDENSER WATER RETURN
	HEATING WATER FLOW		STARTER
	HEATING WATER RETURN		STATIC PRESSURE SENSOR
	COLD WATER DOMESTIC		SMOKE DETECTOR
	NATURAL GAS		POINT OF CONNECTION
	DRAIN		

DESIGN CONDITIONS

	SUMMER	WINTER
OUTSIDE	95°F DB / 78°F WB	20°F DB
INSIDE	75°F DB / 55% RH	72°F DB

SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK		TOTAL CFM	MAX. MOTOR HP SUPPLY	APPROX. TOTAL SP IN. H2O SUPPLY	EXT. SP IN. H2O SUPPLY	COOLING COIL				HOT GAS REHEAT MIN. COIL MBH	ELECTRIC HEATING CAPACITY (KW)	UNIT LAT DB (°F)	LAYOUT BASIS UNITS COOL AIR	REMARKS			
						MAX COIL FACE VEL. FPM	TOTAL COIL MBH	TOTAL COIL ENTERING AIR DB (°F)	LEAVING AIR DB (°F)								
DOAS-1	ACC-1	1550	3/4		0.75	274	70	126	96.0	78.0	55.4	55.3	6	33.5	30	68	OSAHO/PBUIS

VARIABLE REFRIGERANT FLOW OUTDOOR UNIT SCHEDULE

MARK	MINIMUM TOTAL COOLING (MBH)	MINIMUM TOTAL HEATING (MBH)	VOLTAGE / PHASE	LAYOUTS BASIS		REMARKS
				CARRIER MODEL #		
VRHR-1	315	284	208/1	MMU-UP048HP-LUL		

DUCTLESS SPLIT SYSTEM SCHEDULE

INDOOR UNIT MARK	OUTDOOR UNIT MARK	MIN COOLING MBH	MIN EER	CARRIER MODEL #	
				INDOOR	OUTDOOR
DAC-1	DCU-1	24	13	40MHCC24	38MHCC24

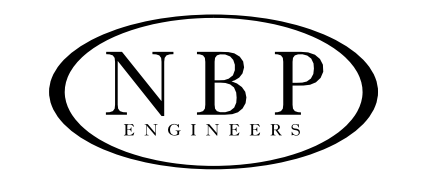
VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE

MARK	TYPE	ASSOCIATED OUTDOOR UNIT	MINIMUM SENSIBLE COOLING (MBH)	MINIMUM TOTAL COOLING (MBH)	MINIMUM TOTAL HEATING (MBH)	VOLTAGE/ PHASE	LAYOUTS BASIS		REMARKS
							CARRIER MODEL #		
VRC-1	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-2	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-3	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-4	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-5	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-6	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-7	CEILING CASSETTE	VRHR-1	40.3	29J	36.6	208/1	MMU-UP048HP-LUL		
VRC-8	CEILING CASSETTE	VRHR-1	8.2	7.8	7.1	208/1	MMU-UP091MHP-LUL		
VRC-9	CEILING CASSETTE	VRHR-1	8.2	7.8	7.1	208/1	MMU-UP091MHP-LUL		
VRC-10	CEILING CASSETTE	VRHR-1	8.2	7.8	7.1	208/1	MMU-UP091MHP-LUL		
VRC-11	CEILING CASSETTE	VRHR-1	8.2	7.8	7.1	208/1	MMU-UP091MHP-LUL		

GRILLE SCHEDULE

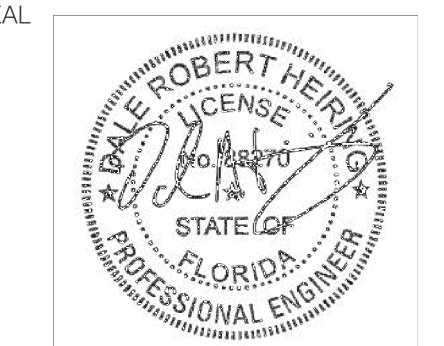
MARK	TYPE	TITUS	FACE	NECK	FINISH	NECK VOLUME DAMPER	① RUNOUT	REMARKS
A	NBW	1700L	8"x4"	8"x4"	OFF/WHITE	NO	8/4	
B	NBW	TMS	14"x8"	14"x8"	OFF/WHITE	NO	14/8	

NOTES:
① RUNOUT SIZE UNLESS OTHERWISE NOTED.



NBP Engineers, Inc.
CONSULTANTS
316 CORPORATE PARKWAY
MACON, GEORGIA 31210
478-745-1691 www.nbpengineers.com

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No.	REVISIONS/SUBMISSIONS	DATE

No. REVISIONS/SUBMISSIONS DATE

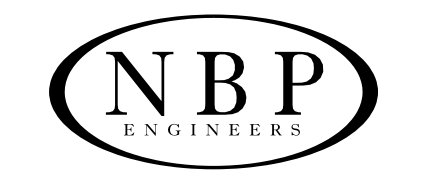
PROJECT No. NFC-04-2024
NFC BUILDING & HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
MADISON, FLORIDA

SHEET TITLE:
ABBREVIATIONS, LEGENDS & SCHEDULES - HVAC

DESIGNED: WSH
DRAWN: LTF
CHECKED: DRH
DATE: 10.25.2024
PROJECT NUMBER: 24045
SCALE: AS SHOWN
FILE PATH: P:\24045\24045m001.dgn
SHEET NUMBER:

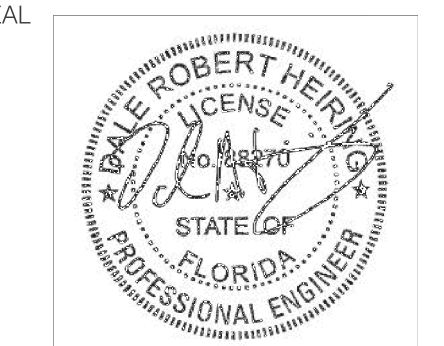
M001

BID SET



NBP Engineers, Inc.
CONSULTANTS
316 CORPORATE PARKWAY
MACON, GEORGIA 31210
478-745-1691 www.nbpengineers.com

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

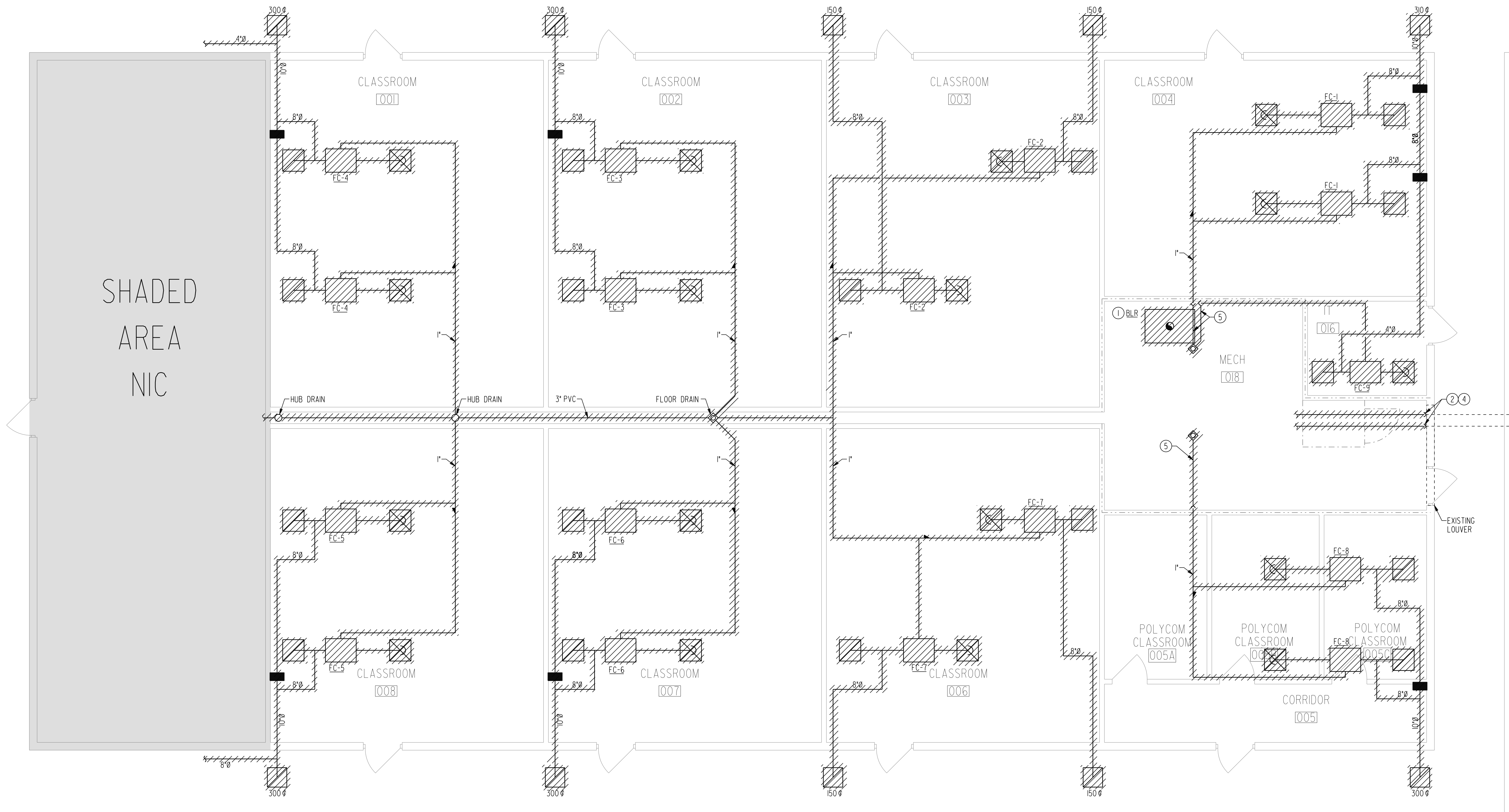
No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE

No. REVISIONS/SUBMISSIONS DATE



PROJECT No. NFC-04-2024
NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
 MADISON, FLORIDA

1 BUILDING 8 - FLOOR PLAN - DEMOLITION - HVAC
 SCALE: 1/4" = 1'-0"
 4 0 2 4 8

NOTES: (THIS SHEET ONLY)

- 1 REMOVE EXISTING BOILER AND ASSOCIATED HW PUMP, EXPANSION TANK, AND OTHER APPURTENANCES. TURN BOILER OVER TO OWNER.
- 2 REMOVE EXISTING CHR/S PIPING DOWN TO FLOOR. CAP PIPING AT FLOOR. ABANDON UNDERGROUND (UG) PIPING IN PLACE.
- 3 REMOVE EXISTING AIR COOLED CHILLER SERVING BUILDING ALONG WITH CHILLED WATER PIPING (CHW) AT CHILLER. CAP PIPING AT GRADE. TURN BOILER OVER TO OWNER.
- 4 REMOVE CHILLED WATER PUMP.
- 5 REMOVE EXISTING CHW/HW PIPING.

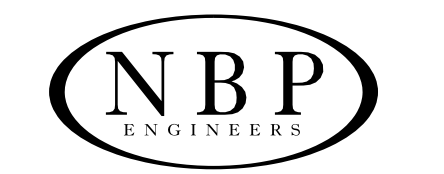
LINE LEGEND	
-----	EXISTING TO REMAIN
///////	DEMOLITION

SHEET TITLE:
BUILDING 8 - FLOOR PLAN - DEMOLITION - HVAC

DESIGNED: WSH
 DRAWN: LTF
 CHECKED: DRH
 DATE: 10.25.2024
 PROJECT NUMBER: 24045
 SCALE: AS SHOWN
 FILE PATH: P:\24045\24045m101.dgn
 SHEET NUMBER:

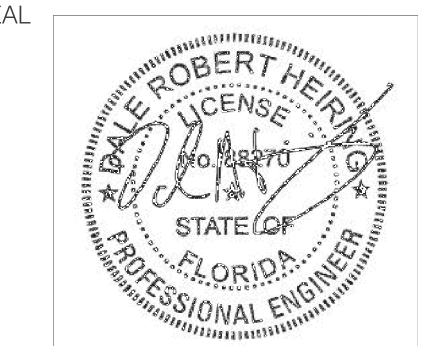
M101

BID SET



NBP Engineers, Inc.
CONSULTANTS
316 CORPORATE PARKWAY
MACON, GEORGIA 31210
478-745-1691 www.nbpengineers.com

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No.	REVISIONS/SUBMISSIONS	DATE

PROJECT No. NFC-04-2024

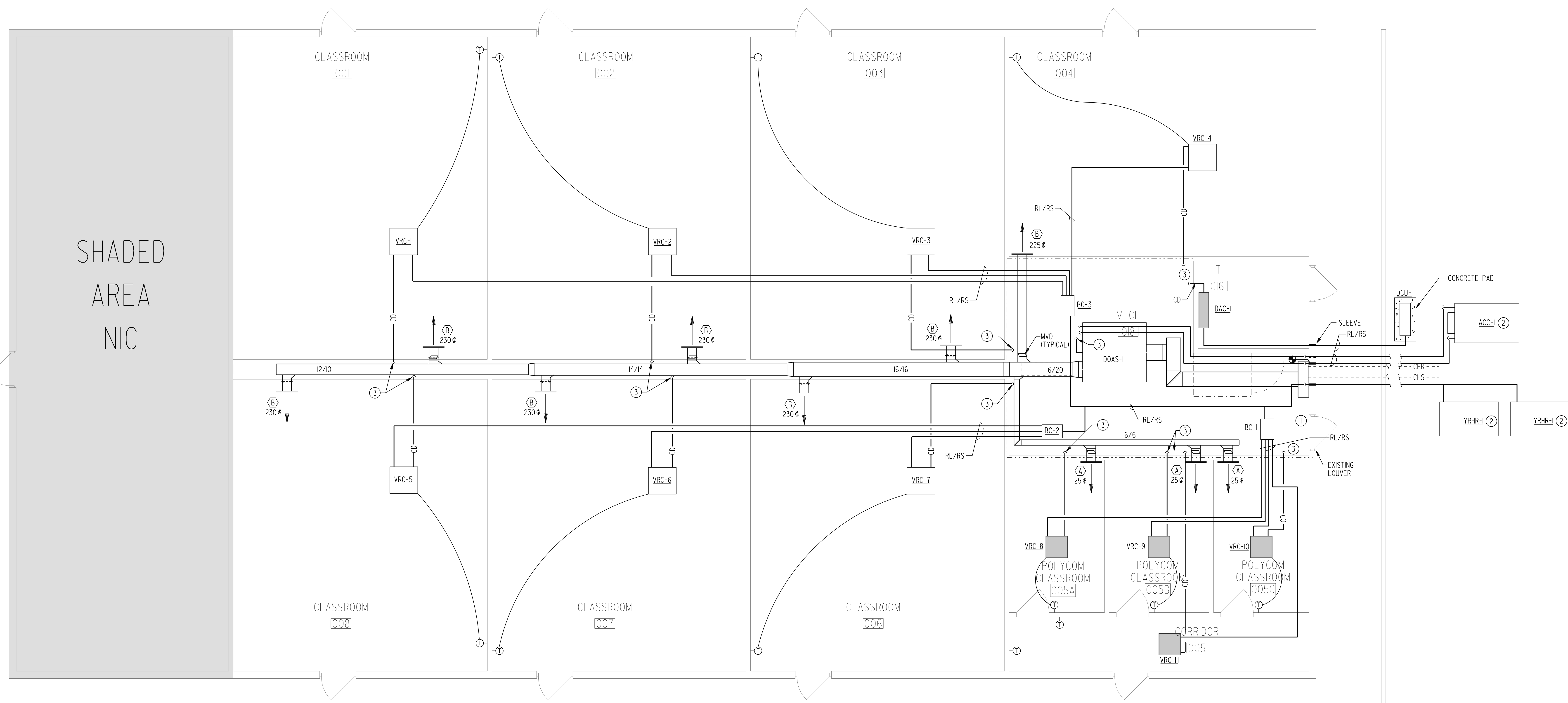
NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
MADISON, FLORIDA

PROJECT TITLE:
SHEET TITLE:
BUILDING 8 - FLOOR PLAN - NEW WORK - HVAC

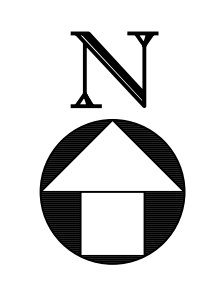
DESIGNED: WSH
DRAWN: LTF
CHECKED: DRH
DATE: 10.25.2024
PROJECT NUMBER: 24045
SCALE: AS SHOWN
FILE PATH: P:\24045\24045m201.dgn
SHEET NUMBER:

M201

BID SET

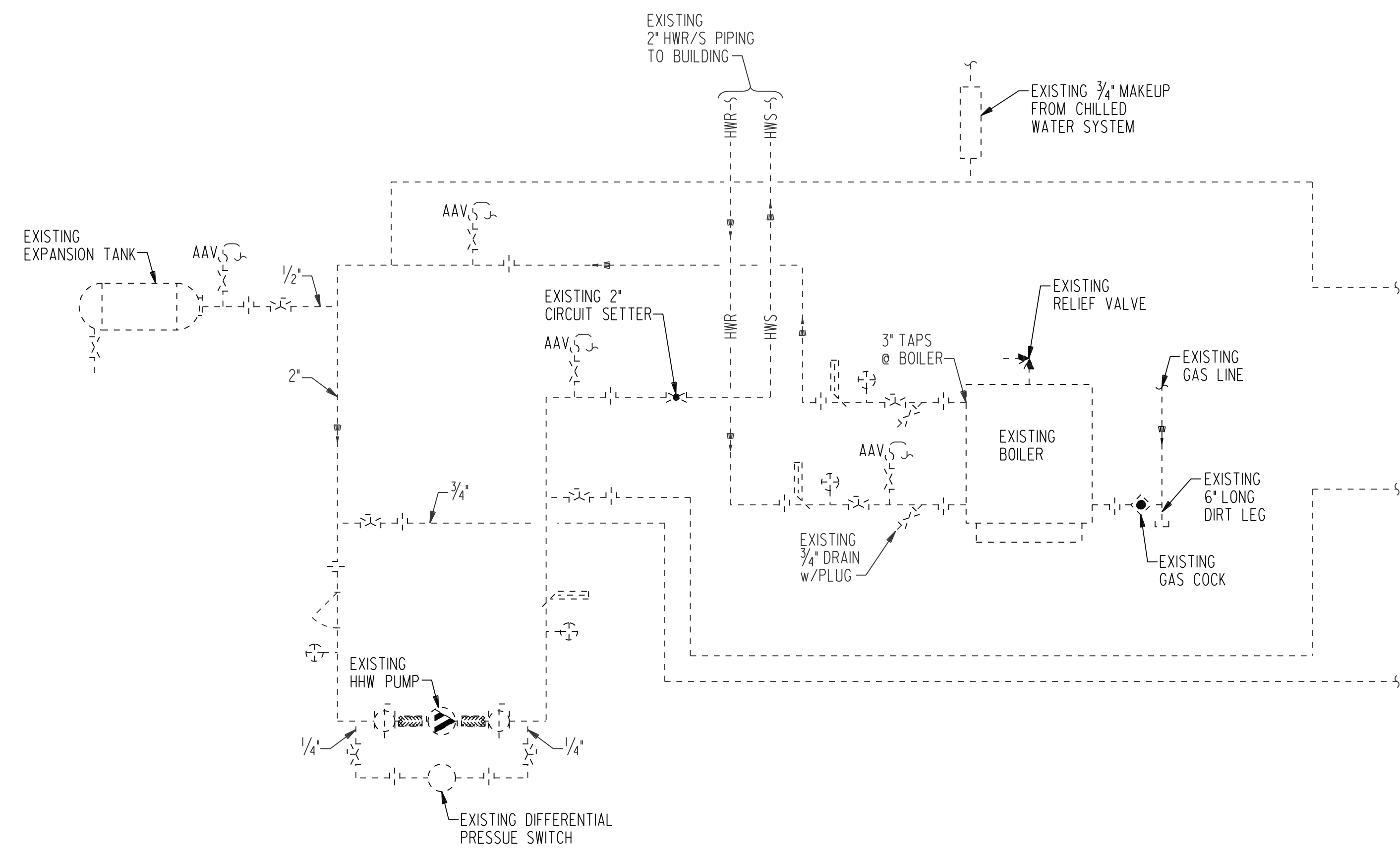


BUILDING 8 - FLOOR PLAN - NEW WORK - HVAC
SCALE: 1/4" = 1'-0"
4 0 2 4 8

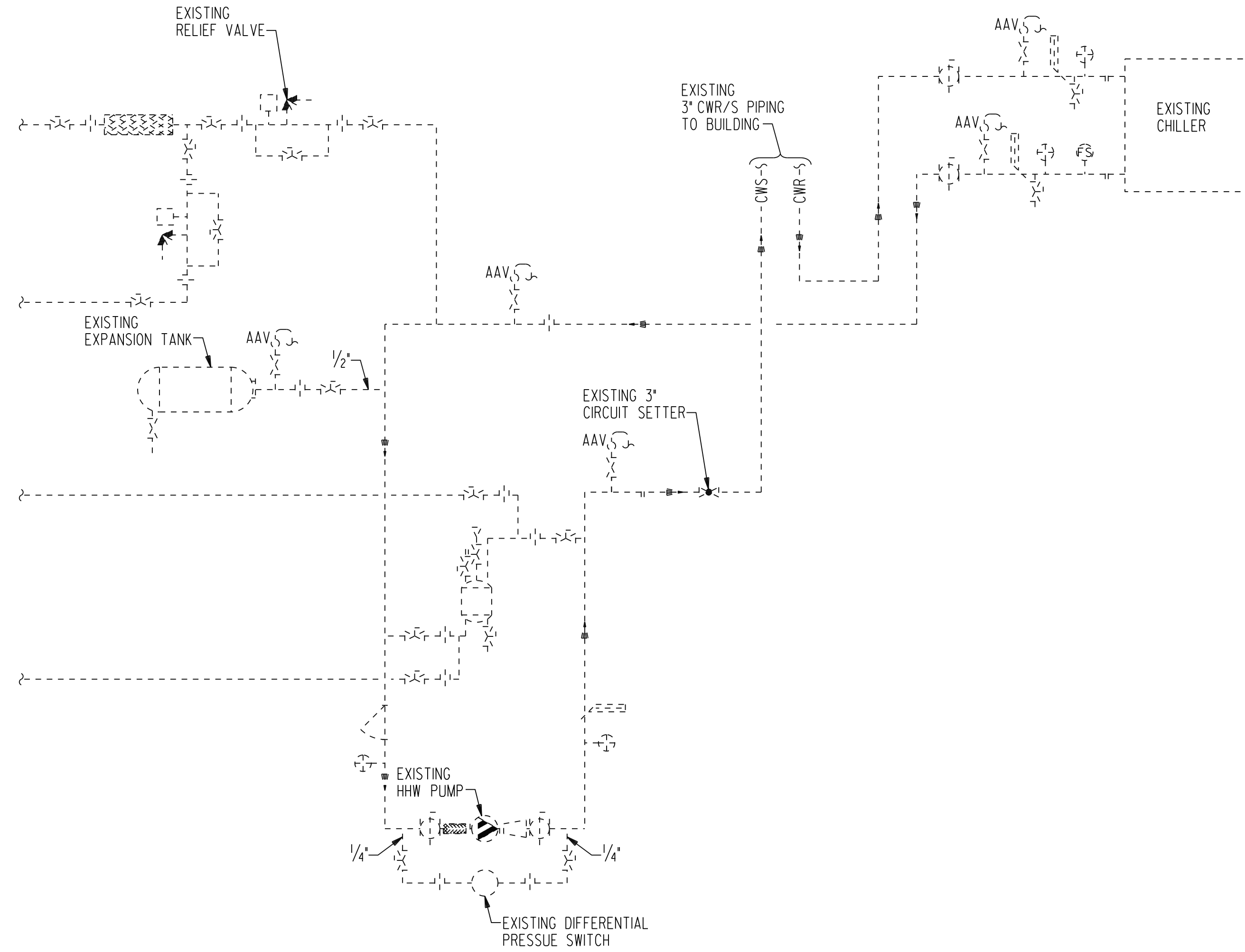


- NOTES:** (THIS SHEET ONLY)
- ① PROVIDE INSULATED METAL BLANK OFF PANEL ON PORTION OF LOUVER NOT USED.
 - ② INSTALL ON EXISTING CONCRETE BASE.
 - ③ ROUTE CONDENSATE DRAIN PIPING TO NEAREST FLOOR DRAIN.

LINE LEGEND	
	POINT OF CONNECTION
	EXISTING TO REMAIN
	NEW WORK



1 BUILDING 8 - EXISTING HEATING WATER FLOW DIAGRAM - HVAC
 NOT TO SCALE



2 BUILDING 8 - EXISTING CHILLED WATER FLOW DIAGRAM - HVAC
 NOT TO SCALE

LINE LEGEND	
	POINT OF CONNECTION
	EXISTING TO REMAIN
	DEMOLITION
	NEW WORK

NBP ENGINEERS
NBP Engineers, Inc.
 CONSULTANTS
 316 CORPORATE PARKWAY
 MACON, GEORGIA 31210
 478-745-1691 www.nbpengineers.com

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.

SEAL

No.	REVISIONS/SUBMISSIONS	DATE

PROJECT No. NFC-04-2024

NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
 MADISON, FLORIDA

PROJECT TITLE:
BUILDING 8 - EXISTING HEATING & CHILLED WATER FLOW DIAGRAMS - HVAC

DESIGNED:
 WSH

DRAWN:
 LTF

CHECKED:
 DRH

DATE:
 10.25.2024

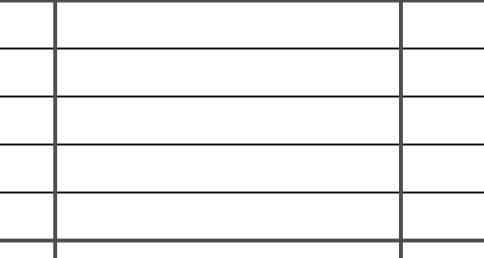
PROJECT NUMBER:
 24045

SCALE:
 AS SHOWN

FILE PATH:
 P:\24045\24045m401.dgn

SHEET NUMBER:
M401

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No. REVISIONS/SUBMISSIONS DATE

PROJECT No. NFC-04-2024
NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
MADISON, FLORIDA

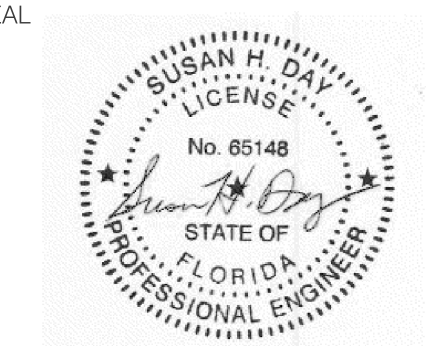
MECHANICAL EQUIPMENT WIRING SCHEDULE										
MARK	LOCATION	HP/KW	MOC/P	MCA	VOLTAGE/PHASE	MEANS OF DISCONNECT	CIRCUIT	REMARKS		
DUCTLESS SPLIT SYSTEMS										
DCU-1/DAC-1	MECHANICAL COURTYARD/DATA RM		30		208/1	FUSED DISCONNECT	LVRF-34	PROVIDE 30/2/3R DISCONNECT AT OUTDOOR UNIT. FUSE SIZE PER MFR. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT. REFER TO MFR'S INSTRUCTIONS.		
VRF SYSTEM EQUIPMENT										
BASED ON VRF SYSTEM BASIS OF DESIGN DESCRIBED IN HVAC DOCUMENTS. MANUFACTURERS MAY VARY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE REQUIREMENTS OF OTHER MANUFACTURERS.										
ODU SYSTEM-1	MECHANICAL YARD		80/80	57.4/57.4	208/3	FUSED DISCONNECT	LVRF-2 LVRF-8	THE VRF OUTDOOR UNIT FOR THE BASIS OF DESIGN CONSISTS OF TWO MODULES. EACH MODULE REQUIRES ITS OWN SEPARATE FEEDER. PROVIDE A 100A/3P/3R FUSED DISCONNECT AT EACH MODULE, 2 TOTAL.		
BC-1	ACCESSIBLE LOCATION		15	0.75	208/1	MOTOR RATED SWITCH	LVRF-22	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
BC-2	ACCESSIBLE LOCATION		15	0.75	208/1	MOTOR RATED SWITCH	LVRF-26	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
BC-3	ACCESSIBLE LOCATION		15	0.75	208/1	MOTOR RATED SWITCH	LVRF-30	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-1	CLASSROOM 001		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-1	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-2	CLASSROOM 002		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-5	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-3	CLASSROOM 003		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-9	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-4	CLASSROOM 004		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-13	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-5	CLASSROOM 008		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-17	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-6	CLASSROOM 007		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-21	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-7	CLASSROOM 006		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-25	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-8	CLASSROOM 005A		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-29	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-9	CLASSROOM 005B		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-33	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-10	CLASSROOM 005C		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-14	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
VRC-11	CORRIDOR 005		15	1.44	208/1	MOTOR RATED SWITCH	LVRF-18	PROVIDE 20A/2P MOTOR RATED SWITCH FOR LOCAL DISCONNECT AT UNIT.		
DEDICATED OUTDOOR AIR SYSTEM										
DOAS-1 OUTDOOR UNIT	MECHANICAL YARD		3.6	15	480/3	FUSED DISCONNECT SWITCH	HCHR-7	PROVIDE 30/3/3R FUSED DISCONNECT AT THE OUTDOOR UNIT. PROVIDE FUSE SIZE IN ACCORDANCE WITH THE DOAS MFR'S DATA. NOTE THE FEEDER FOR THE DOAS IS 30A/3P. THIS IS TO ALLOW FOR VARIANCE AMONG MANUFACTURERS. THE MOC/P AND MCA VALUES LISTED IN THIS TABLE ARE FOR THE HVAC BASIS OF DESIGN.		
DOAS-1 INDOOR UNIT	MECHANICAL ROOM		50	49	480/3	FUSED DISCONNECT SWITCH	HCHR-14	PROVIDE 100A/3P FUSED DISCONNECT IN THE MECHANICAL ROOM FOR THE DOAS. PROVIDE FUSE SIZE IN ACCORDANCE WITH THE DOAS MFR'S DATA. NOTE THE FEEDER FOR THE DOAS IS 100A/3P. THIS IS TO ALLOW FOR VARIANCE AMONG MANUFACTURERS. THE MOC/P AND MCA VALUES LISTED IN THIS TABLE ARE FOR THE HVAC BASIS OF DESIGN.		

ELECTRICAL LEGEND			
LIGHTING FIXTURES (SYMBOLS VARY BASED ON FIXTURES TYPE)			
	LED ON "NORMAL" POWER		LIFE SAFETY EGRESS FIXTURE
	CEILING MOUNTED FIXTURE		EXIT LIGHT (ARROWS AS SHOWN)
	WALL MOUNTED FIXTURE		EMERGENCY BATTERY PACK-WALL
	TRACK LIGHTS: QUANTITY OF HEADS AS SHOWN		EMERGENCY BATTERY PACK-CEILING
LIGHTING CONTROL			
	SINGLE POLE SWITCH		CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR AND RELAY
	THREE WAY SWITCH		CEILING/WALL MOUNTED INFRARED OCCUPANCY SENSOR AND RELAY
	FOUR WAY SWITCH		CEILING MOUNTED COMBINATION INFRARED/ULTRASONIC OCCUPANCY SENSOR AND RELAY - VACANCY AUTO SHUT OFF
	DIMMER SWITCH		SWITCHING PHOTOCELL (INTERIOR TYPE) F.C. NOTED
	KEYED SWITCH		DIMMING PHOTOCELL (INTERIOR TYPE)
	WALL MOUNTED SWITCH		EXTERIOR TYPE PHOTO SWITCH
	INFRARED OCCUPANCY SENSOR		*P INDICATES PILOT LIGHT
	LOW VOLTAGE OVERRIDE SWITCH		
	SINGLE ZONE LOW VOLTAGE SWITCH		
	TWO ZONE LOW VOLTAGE SWITCH		
	FOUR ZONE LOW VOLTAGE SWITCH		
RECEPTACLES			
	DUPLEX RECEPTACLE - NORMAL		ELECTRIC WATER COOLER RECEPTACLE(GFCI)
	QUAD - NORMAL		WEATHER PROOF RECEPTACLE (GFCI)
	GFCI DUPLEX RECEPTACLE - NORMAL		HORIZONTALLY MOUNTED DUPLEX RECEPTACLE
	GFCI QUAD - NORMAL		SPECIAL - TYPE NOTED OR SHOWN
	FLOOR DUPLEX RECEPTACLE - NORMAL		CEILING SPECIAL - TYPE NOTED OR SHOWN
	FLOOR QUAD - NORMAL		WALL/CEILING RACEWAY
	CEILING DUPLEX RECEPTACLE - NORMAL		CLOCK OUTLET
	DUPLEX RECEPTACLE WITH INTEGRAL USB		ABOVE COUNTER DUPLEX RECEPTACLE (COORDINATE HEIGHT WITH ARCHITECT)
	TV DUPLEX RECEPTACLE		DUPLEX RECEPTACLE - GENERATOR CIRCUIT, RED IN COLOR
	DUPLEX RECEPTACLE MOUNTED IN RACEWAY		QUAD - GENERATOR CIRCUIT, RED IN COLOR
	DUPLEX RECEPTACLE - TAMPER PROOF		
CIRCUITS			
	CONDUIT CONCEALED IN CEILING OR WALL		RACEWAY EXPOSED
	CONDUIT IN GROUND, SLAB, OR UNDER FLOOR		FLEXIBLE RACEWAY
	HOMERUN - ONE ARROW PER CIRCUIT		CONDUIT UP
			CONDUIT DOWN
			CAP
			CONNECTION TO EQUIPMENT
GENERAL EQUIPMENT			
	PANELBOARD-250 VAC OR LESS SURFACE MOUNTED		SURGE SUPPRESSOR
	PANELBOARD-250 VAC OR LESS RECESSED		JUNCTION BOX - WALL/CEILING/FLOOR
	PANELBOARD-OVER 250 VAC SURFACE MOUNTED		MOTOR
	PANELBOARD-OVER 250 VAC RECESSED		EXHAUST FAN
	TRANSFORMER		COMBINATION STARTER AND DISCONNECT
	DISCONNECT SWITCH: *F* IF FUSED FRAME AMPS/POLES/NEMA TYPE FUSE PER MANUFACTURERS RECOMMENDATIONS		MANUAL STARTER AND MOTOR RATED SWITCH
			EMERGENCY PUSHBUTTON
			ENCLOSED CIRCUIT BREAKER
			ENCLOSED BREAKER-RECESSED IN WALL
			BACKBOARD
			CABLE TRAY
FIRE PROTECTION EQUIPMENT			
	FIRE ALARM PANEL		DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM ANNUNCIATOR		SMOKE DETECTOR: CEILING / WALL
	MANUAL PULL STATION		HEAT DETECTOR: CEILING / WALL
	AUDIO/VISUAL ALARM: CEILING/WALL		WATER FLOW SWITCH
	VISUAL ALARM: CEILING/WALL		WATER TAMPER SWITCH
	SPEAKER/VISUAL ALARM: CEILING/WALL		DOOR HOLDER
	SMOKE DETECTOR/SENSOR - BEAM TRANSMITTER		FIREMAN'S PHONE OUTLET
	SMOKE DETECTOR/SENSOR - BEAM RECEIVER		
COMMUNICATIONS			
	VOICE OUTLET, QUANTITY OF JACKS AS NOTED		MICROPHONE: FLOOR/WALL
	DATA OUTLET, QUANTITY OF JACKS AS NOTED		SPEAKER: CEILING/WALL
	COMBINATION VOICE/DATA OUTLET, QUANTITY OF VOICE/DATA JACKS AS NOTED		FIBER OUTLET
	FLOOR VOICE OUTLET, QUANTITY OF JACKS AS NOTED		TELEVISION OUTLET
	FLOOR DATA OUTLET, QUANTITY OF JACKS AS NOTED		BOX, STUB-UP, AND MODULAR PLATE W/ BLANKS
	SURGE SUPPRESSION		WALL MOUNTED VOLUME CONTROL
			INTERCOM CALL-IN STATION
			INTERCOM MASTER STATION
			MASTER CLOCK
			J-HOOK
			CABLE TRAY
LIGHTNING PROTECTION AND GROUNDING			
	GROUNDING CONDUCTOR- UNDER SLAB OR BELOW GRADE		GROUNDING CONDUCTOR- CONCEALED IN ROOF OR WALLS
	GROUND ROD - C IF CHEMICAL		GROUNDING CONDUCTOR- EXPOSED
	GROUND CONNECTION (SCHEMATIC)		AIR TERMINAL
			GROUNDING PLATE
SECURITY			
	CARD READER		SECURITY CAMERA: CEILING/WALL MOUNTED
	DOOR POSITION SENSOR		
	ELECTRIC STRIKE		

EXISTING HCHR														
480 / 277 3 PH. WIRE														
FED BY SERVICE ENTRANCE DISCONNECT SWITCH 400 FLOOR AMPS MOUNTED														
CKT	TRIP	WIRE	CD.	SERVICES	PHASE LOAD V.A.			VOLT-AMPS	SERVICES	CD.	WIRE	TRIP	CD.	SERVICES
					A	B	C							
1	30	3		SPARE							30	3	2	
3														
5														
7	30	3	#10	34"	SEE NOTE 1.	1000	7	1000	8		30	3	8	
9						1000	9							
11						1000	11							
13				SPACE		13573	13	13573	14	13573	100	3	14	
15				SPACE			15	13573	16	13573			16	
17				SPACE			17	13573	18	13573			18	
19				SPACE		17576	19	17576	20	17576	SEE NOTE 4.	SEE	100	3
21				SPACE			21	19926	22	19926			22	
23				SPACE			23	19926	24	19926			24	
25				SPACE			25	0	26		SPACE		26	
27				SPACE			27	0	28		SPACE		28	
29				SPACE			29	0	30		SPACE		30	
31							31	0	32				32	
33							33	0	34				34	
35							35	0	36				36	
37							37	0	38				38	
39							39	0	40				40	
41							41	0	42				42	

LVRF															
208 / 120 3 PH. WIRE															
FED BY HCHR VIA VRF MAIN BREAKER 250 SURFACE AMPS MOUNTED															
CKT	TRIP	WIRE	CD.	SERVICES	PHASE LOAD V.A.			VOLT-AMPS	SERVICES	CD.	WIRE	TRIP	CD.	SERVICES	
					A	B	C								
1	15	2	#12	1/2"	VRF-1	150	1	7038	2	6888	VRF OUTDOOR UNIT	1 1/2"	#11	100	3
3						150	3	7038	4	6888	NO. 1		#12		4
5	15	2	#12	1/2"	VRF-2	150	5		6	6888	VRF OUTDOOR UNIT	1 1/2"	#11	100	3
7	15	2	#12	1/2"	VRF-3	150	7	7038	8	6888	NO. 1		#12		8
9	15	2	#12	1/2"	VRF-4	150	9		10	6888	VRF OUTDOOR UNIT	1 1/2"	#11	100	3
11						150	11	7038	12	6888	NO. 1		#12		12
13	15	2	#12	1/2"	VRF-5	150	13	300	14	150	VRF-10	1/2"	#12	15	2
15						150	15		16	150			#12	15	2
17	15	2	#12	1/2"	VRF-6	150	17		18	150	VRF-11	1/2"	#12	15	2
19						150	19	300	20	150			#12	15	2
21	15	2	#12	1/2"	VRF-7	150	21	950	22	800	BC-1 BRANCH CONTROLLER	1/2"	#12	15	2
23						150	23		24	800	CONTROLLER	1/2"	#12	15	2
25	15	2	#12	1/2"	VRF-8	150	25	950	26	800	BC-2 BRANCH CONTROLLER	1/2"	#12	15	2
27						150	27		28	800	CONTROLLER	1/2"	#12	15	2
29	15	2	#12	1/2"	VRF-9	150	29	950	30	800	BC-3 BRANCH CONTROLLER	1/2"	#12	15	2
3															

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No.	REVISIONS/SUBMISSIONS	DATE

PROJECT No. NFC-04-2024

NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
MADISON, FLORIDA

PROJECT TITLE:

SHEET TITLE:
BUILDING 8 - FLOOR PLAN - DEMOLITION - ELECTRICAL

DESIGNED: SHD
DRAWN: BCO
CHECKED: SHD
DATE: 10.25.2024
PROJECT NUMBER: 24045
SCALE: AS SHOWN
FILE PATH: P:\24045\24045e101.dgn
SHEET NUMBER:

E101

BID SET



- GENERAL NOTES:** (THIS SHEET ONLY)
- A SEAL ALL PENETRATIONS AT RATED PARTITIONS INCLUDING AROUND EXISTING RACEWAY, AND HOLES CREATED BY DEMOLITION OR REMOVAL OF RACEWAY.
 - B EXISTING FEEDERS AND BRANCH CIRCUIT ASSIGNMENTS WERE DETERMINED FROM CASUAL OBSERVATION OF EXISTING PANELBOARDS. CONTRACTOR SHALL FIELD VERIFY BEFORE BEGINNING DEMOLITION.
 - C WHERE HVAC EQUIPMENT IS NOTED TO BE REMOVED, REMOVE ALL WIRE TO SOURCE PANEL. REMOVE ACCESSIBLE CONDUIT TO SOURCE PANEL. FOR CONDUIT UNDER SLAB OR UNDERGROUND, CUT OFF FLUSH, SEAL WATERTIGHT WITH DUCT-SEAL, AND ABANDON IN PLACE. REMOVE ASSOCIATED STARTERS AND SAFETY DISCONNECT SWITCHES. IF BREAKER IS NOT NOTED AS REUSED, RE-LABEL AS SPARE.

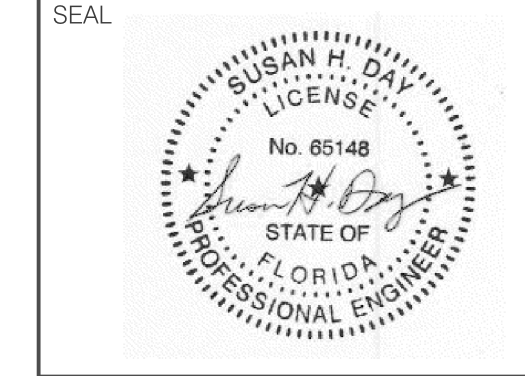
- NOTES:** (THIS SHEET ONLY)
- 1 REMOVE EXISTING BOILER AND ASSOCIATED HW PUMP.
 - 2 REMOVE CHILLED WATER PUMP
 - 3 REMOVE EXISTING AIR COOLED CHILLER SERVING BUILDING ALONG WITH HEAT TRACE AT CHILLER.
 - 4 EXISTING FAN COIL UNITS ARE SERVED FROM THIS PANEL.
 - 5 CIRCUIT NUMBER AS DETERMINED FROM EXISTING PANEL SCHEDULE AND CURRENT ROOM NUMBERS. CONTRACTOR TO FIELD VERIFY.
 - 6 SEE RISER DIAGRAM ON SHEET E40L.

BUILDING 8 - FLOOR PLAN - DEMOLITION - ELECTRICAL

SCALE: 1/4" = 1'-0"

LINE LEGEND	
-----	EXISTING TO REMAIN
////	DEMOLITION

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.



No.	REVISIONS/SUBMISSIONS	DATE

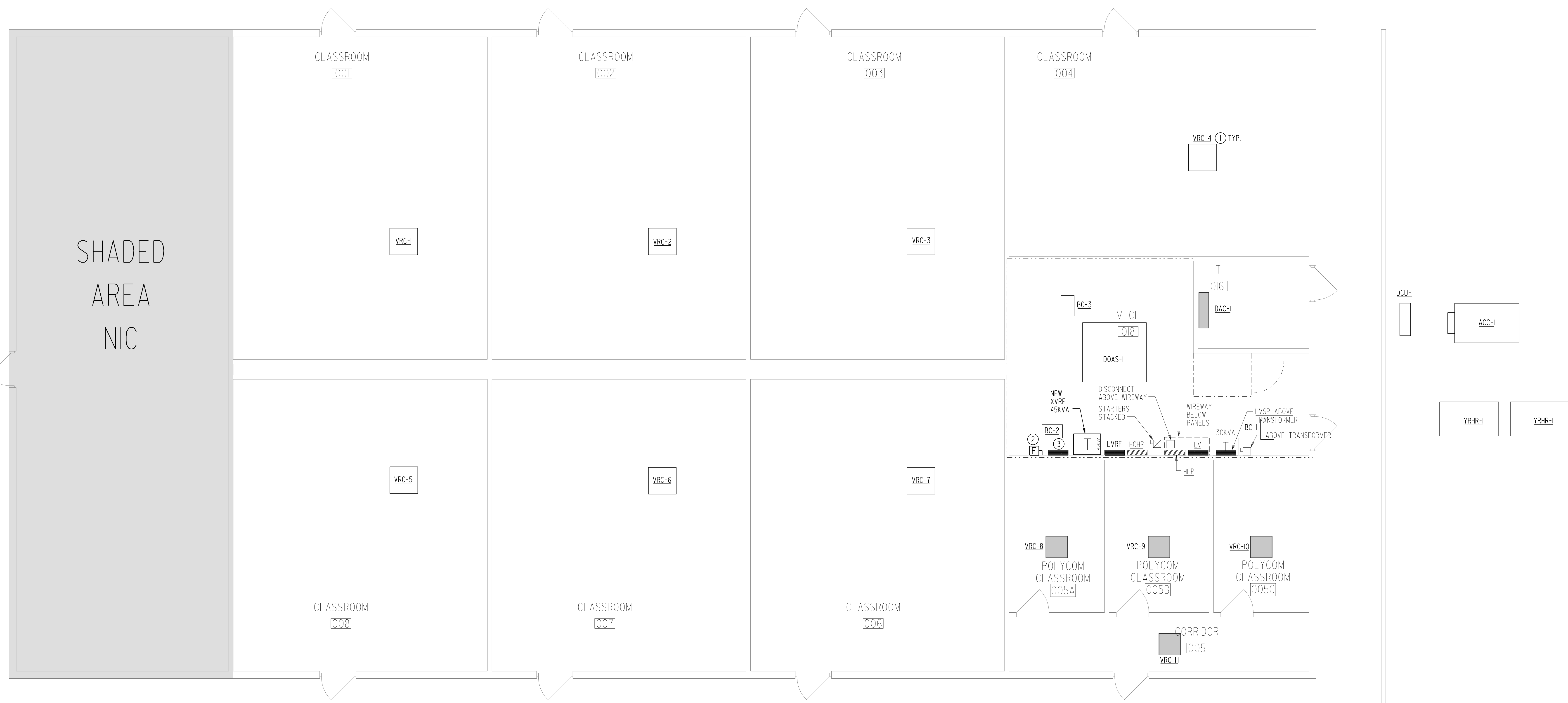
PROJECT No. NFC-04-2024
NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
MADISON, FLORIDA

PROJECT TITLE:
BUILDING 8 -
FLOOR PLAN -
NEW WORK -
ELECTRICAL

DESIGNED: SHD
DRAWN: BCO
CHECKED: SHD
DATE: 10.25.2024
PROJECT NUMBER: 24045
SCALE: AS SHOWN
FILE PATH: P:\24045\24045e201.dgn
SHEET NUMBER:

E201

BID SET

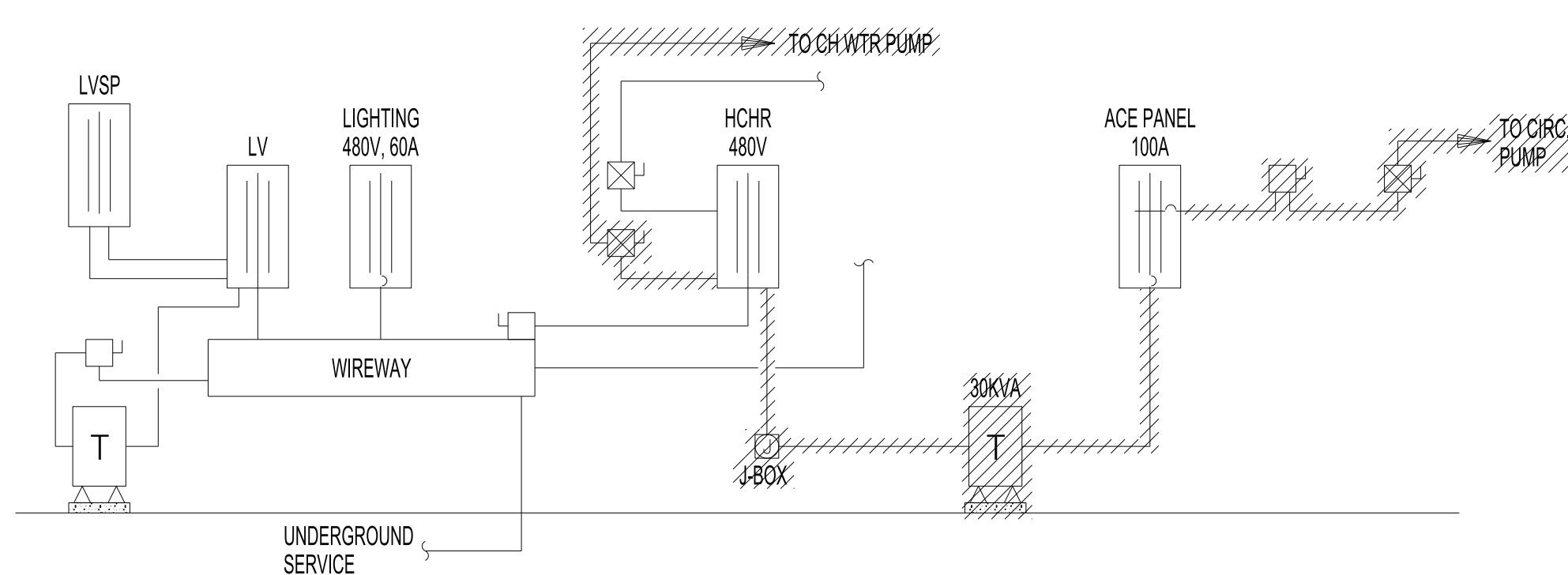


GENERAL NOTES: (THIS SHEET ONLY)
① SEAL ALL PENETRATIONS AT RATED PARTITIONS.

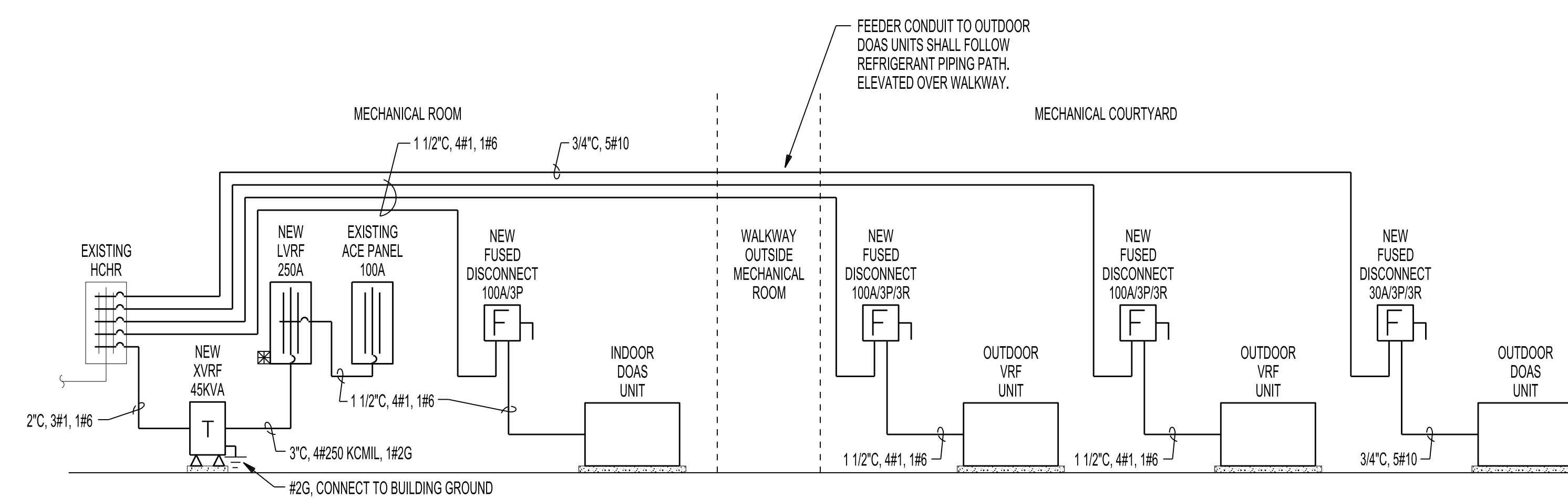
NOTES: (THIS SHEET ONLY)
① REFER TO MECHANICAL WIRING SCHEDULE SHEET E00L.
② NEW 100A/3P FUSED DISCONNECT FOR NEW INDOOR DOAS UNIT.
③ THIS PANEL IS NOT LABELED. IT CAN BE IDENTIFIED BY THE LARGE "ACE ELECTRIC" STICKER ON IT.

① **BUILDING 8 - FLOOR PLAN - NEW WORK - ELECTRICAL**
SCALE: 1/4" = 1'-0"
4 0 2 4 8

LINE LEGEND	
	EXISTING TO REMAIN
	NEW WORK

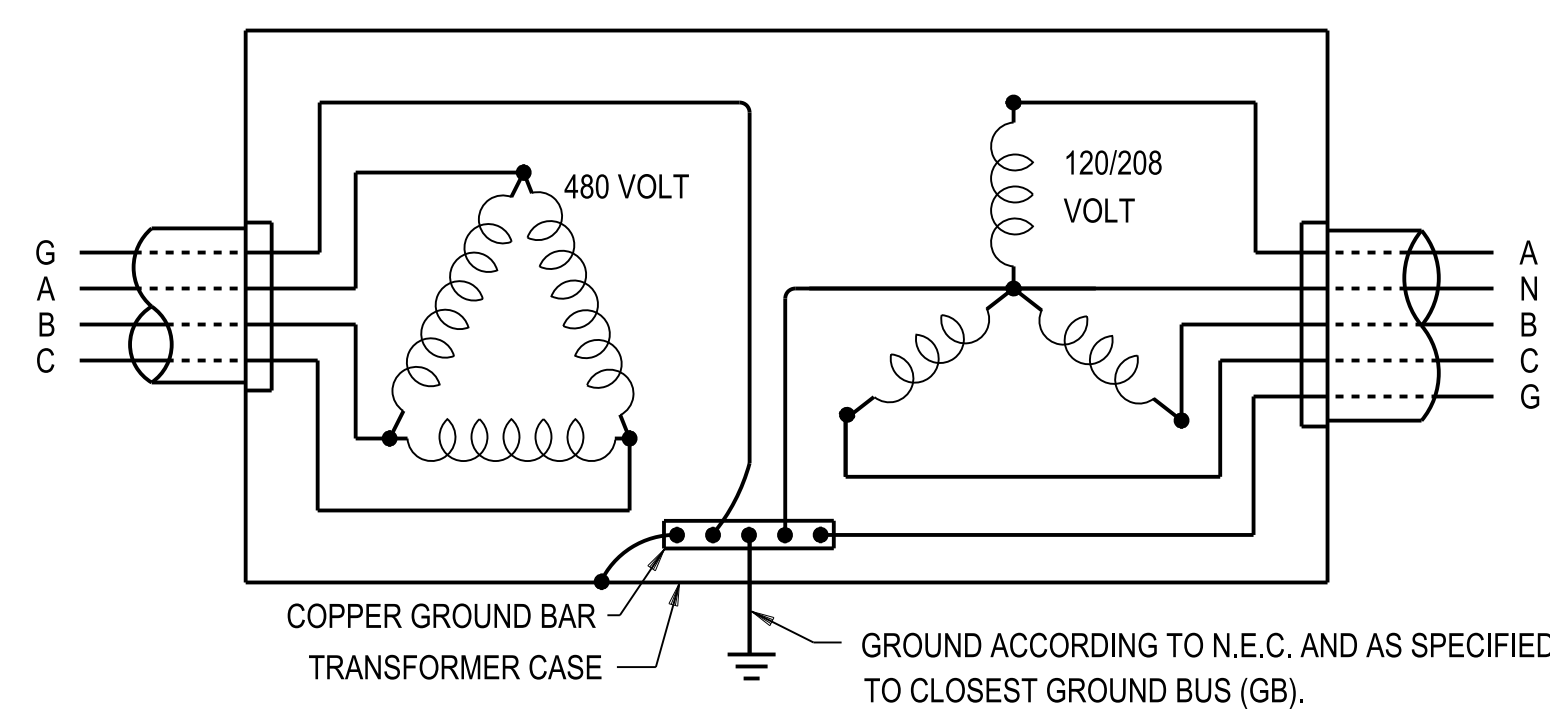


1 EXISTING POWER RISER DIAGRAM DEMOLITION
NOT TO SCALE

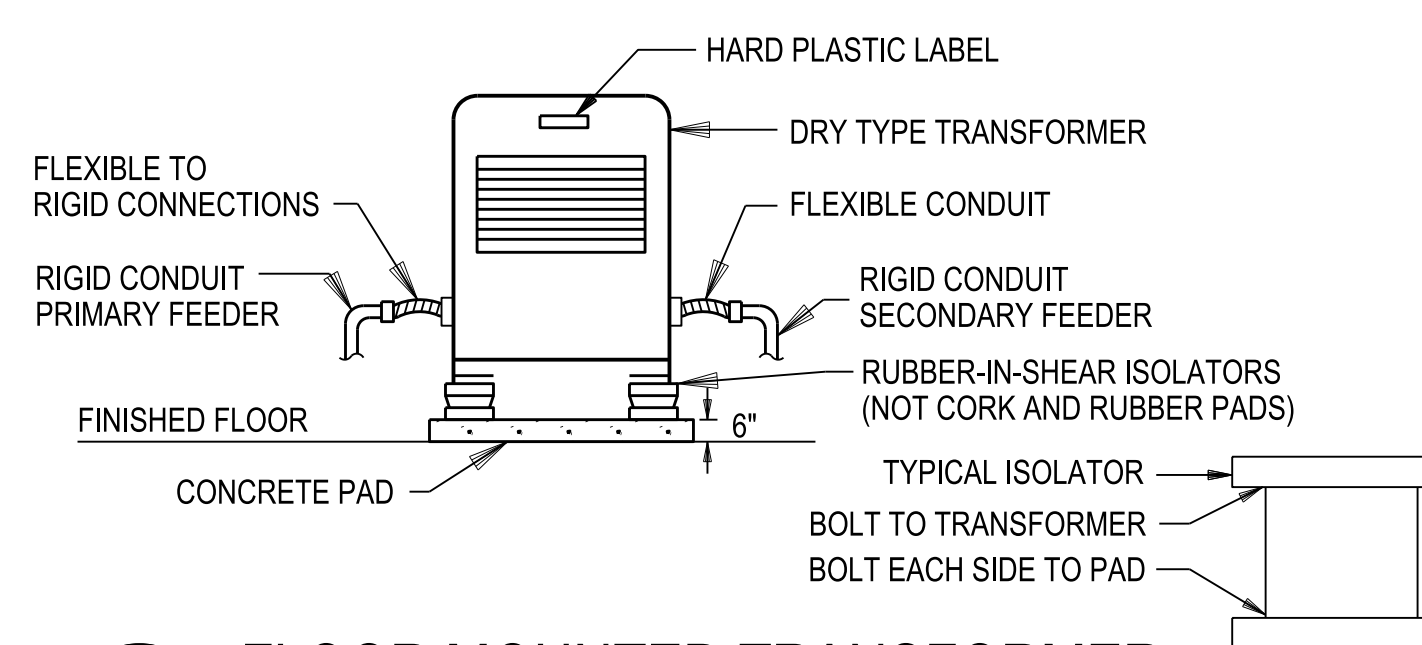


2 POWER RISER DIAGRAM NEW WORK
NOT TO SCALE

WIRE COLOR CODE		
A/C	120/208	277/480
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN



3 DRY TYPE TRANSFORMER CONNECTIONS
NOT TO SCALE



4 FLOOR MOUNTED TRANSFORMER
NOT TO SCALE

LINE LEGEND	
—————	EXISTING TO REMAIN
///////	DEMOLITION
—————	NEW WORK

NBP ENGINEERS
NBP Engineers, Inc.
CONSULTANTS
316 CORPORATE PARKWAY
MACON, GEORGIA 31210
478-745-1691 www.nbpengineers.com

THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND MAY NOT BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT HIS WRITTEN PERMISSION. IT IS TO BE USED FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREIN AND TO BE RETURNED UPON REQUEST.

SEAL

BUSAN H. DAY
LICENSE
No. 65148
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

No.	REVISIONS/SUBMISSIONS	DATE

PROJECT No. NFC-04-2024

NFC BUILDING 8 HVAC REPLACEMENT
NORTH FLORIDA COLLEGE
MADISON, FLORIDA

PROJECT TITLE:
SHEET TITLE:
RISER DIAGRAMS AND DETAILS - ELECTRICAL

DESIGNED: SHD
DRAWN: BCO
CHECKED: SHD
DATE: 10.25.2024
PROJECT NUMBER: 24045
SCALE: AS SHOWN
FILE PATH: P:\24045\24045e401.dgn
SHEET NUMBER:

E401

BID SET