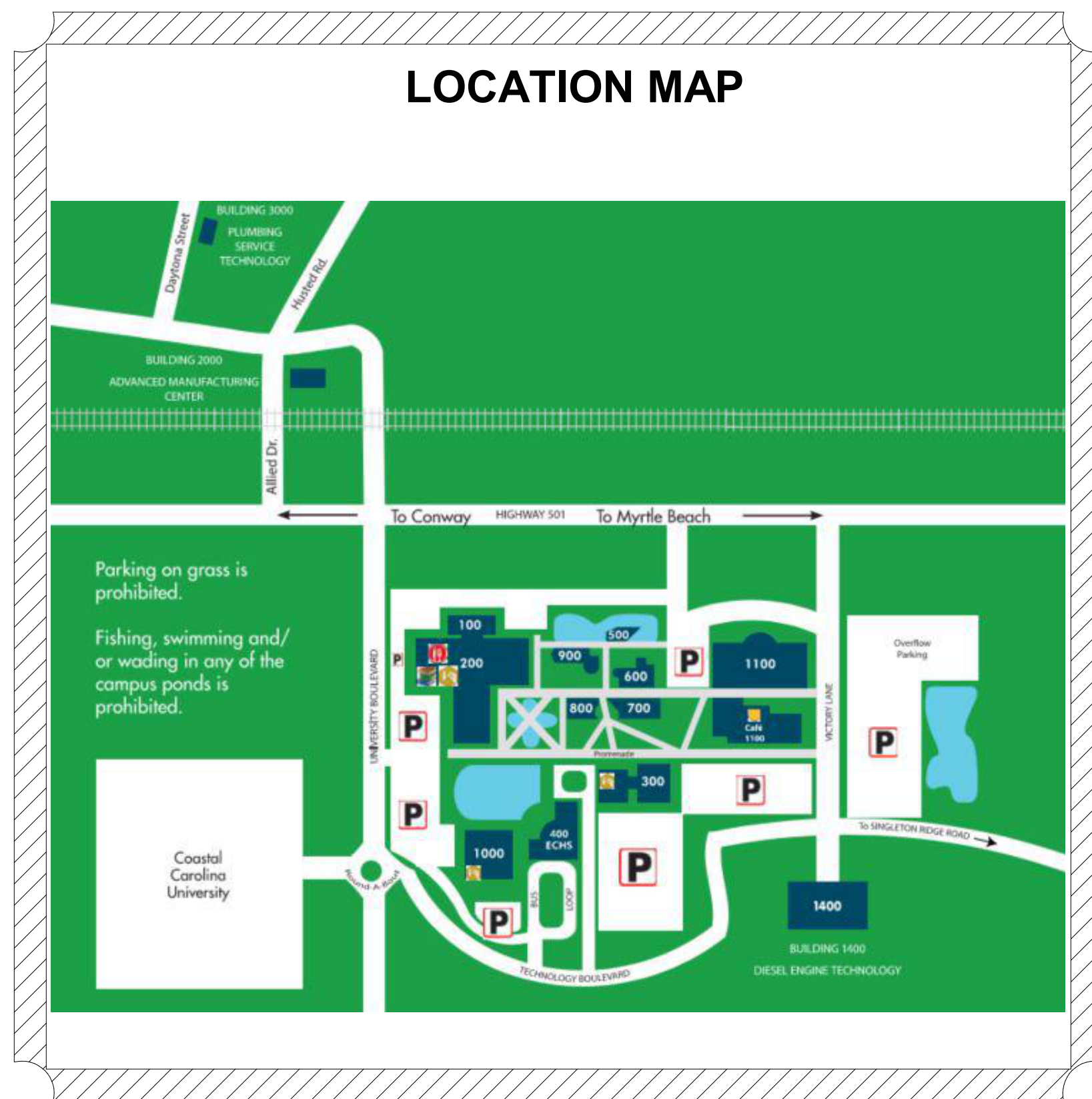
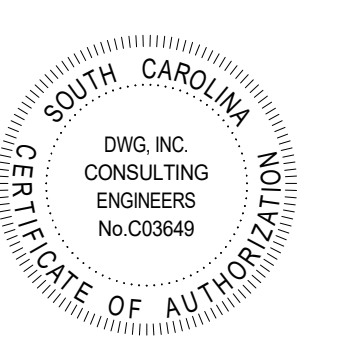




UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
STATE PROJECT NUMBER H59-6213-ML
2050 HWY 501 E
CONWAY, SC 29526



SHEET INDEX

#	SHEET NAME
T000	TITLE SHEET
E101	BUILDING 100 CONWAY ELECTRICAL PLAN
E102	BUILDING 200 CONWAY ELECTRICAL PLAN
E103	BUILDING 500 & BUILDING 600 CONWAY ELECTRICAL PLAN
E104	BUILDING 700 & BUILDING 800 CONWAY ELECTRICAL PLAN
E105	BUILDING 900 CONWAY ELECTRICAL PLAN
E107	BUILDING 3000 CONWAY ELECTRICAL PLAN
M001	MECHANICAL NOTES & LEGENDS
M002	MECHANICAL DETAILS
M101	B100 CONWAY MECHANICAL PLAN
M102	B200 CONWAY MECHANICAL PLAN
M102A	BUILDING 200 EQUIPMENT PHOTOS
M102B	BUILDING 200 MECHANICAL ROOMS
M103	B500 & B600 CONWAY MECHANICAL PLAN
M104	B700 & B800 CONWAY MECHANICAL PLAN
M105	B900 CONWAY MECHANICAL PLAN
M107	B3000 CONWAY MECHANICAL PLAN

SCOPE OF WORK

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE DEMOLITION AND SUBSEQUENT REPLACEMENT OF HVAC EQUIPMENT, CONTROLS, AND ASSOCIATED ELECTRICAL INSTALLED WITHIN EACH BUILDING.

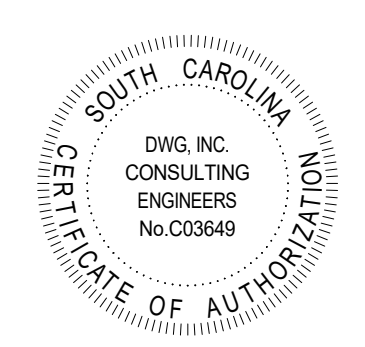
BASE BID: BUILDING 100
 BUILDING 200
 BUILDING 500
 BUILDING 700
 BUILDING 800
 BUILDING 900
 BUILDING 3000

ALTERNATE BID ITEM: BUILDING 600

UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 TITLE SHEET

REV	
JOB No.	H59-6213-ML
DATE:	08/9/23
DRAWN BY:	ADL
CHECKED BY:	WDB
SHEET	NUMBER

T000



8/9/2023



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
BUILDING 100 CONWAY ELECTRICAL PLAN



ELECTRICAL CODES AND STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)	
CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFC (2021)	INTERNATIONAL FIRE CODE
NFPA 70 (2020)	NATIONAL ELECTRICAL CODE
NFPA 72 (2019)	NATIONAL FIRE ALARM AND SIGNALING CODE

GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE NATIONAL ELECTRIC CODE, ALL LOCAL ORDINANCES, AND HGTC STANDARDS.
- A FIRESTOP SYSTEM SHALL BE USED TO SEAL ALL PENETRATIONS OF ELECTRICAL CONDUITS AND CABLES THROUGH FIRE-RATED PARTITIONS. THE FIRESTOP SYSTEM SHALL CONSIST OF A FIRE-RATED CAULK TYPE SUBSTANCE AND HIGH TEMPERATURE FIBER INSULATION BY STI OR APPROVED EQUAL. ONLY METAL CONDUIT SHALL BE USED TO PENETRATE FIRE-RATED PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE-RATED WALLS.
- THE USE OF MC CABLE IS NOT ALLOWED, UNLESS NOTED OTHERWISE.
- PROVIDE A LISTED EXPANSION/DEFLECTION FITTING FOR ALL CONDUIT CROSSING EXPANSION JOINTS PER NEC 300.4.H. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS.
- WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECTRICAL DRAWINGS, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, AND LOCAL ORDINANCES.

GENERAL EXISTING CONDITION NOTES

- AREAS OF WORK EXIST FOR THIS PROJECT WHICH WERE NOT ACCESSIBLE OR HAD LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF ENGINEER. WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK. ALL WORK PERFORMED ABOVE EXISTING CEILINGS SHALL BE PERFORMED AFTER HOURS AND SCHEDULED WITH THE OWNER IN ADVANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE-RATED FLOORS AND WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
- WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE A/E OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.
- SUPPORT ALL EXISTING CONDUITS AND JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA PER NEC.
- REMOVE ALL ABANDONED CONDUIT, WIRE AND CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
- PROVIDE JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
- SUPPORT ALL EXISTING CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.

GENERAL HVAC CONTROLS CONDUIT NOTES

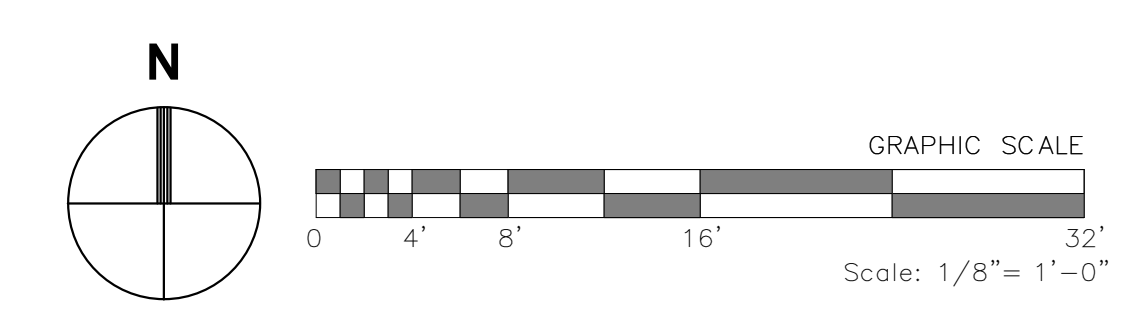
- PROVIDE CONDUIT FOR HVAC CONTROL CIRCUITS AS REQUIRED TO INTERCONNECT HVAC UNIT TO CONTROL CIRCUITS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND CONTROLS PROVIDER TO DETERMINE SCOPE OF CONDUITS REQUIRED FOR HVAC CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT. COORDINATE POINTS OF CONNECTION WITH DIVISION 23. PROVIDE PULL CORD IN ALL EMPTY CONDUITS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL HVAC EQUIPMENT (AHU, HP, CU, RTU, DUCT SMOKE DETECTORS, VAV, FCU, THERMOSTATS, ETC).

1 BUILDING 100 CONWAY ELECTRICAL PLAN
E101 NOT TO SCALE

EQUIPMENT CONNECTION SCHEDULE								
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCBP (BREAKER)	PANEL	NOTES
ROOF TOP UNITS (RTU)								
RTU-1	208	3	4	3#4 & 1#8G IN 3/4" CONDUIT	FUSED 100/70/3/3R	63.0 MCA / 70A	2-BH	2
RTU-3	208	3	4	3#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/50/3/3R	43.0 MCA / 50A	2-AH	2
RTU-4	208	3	4	3#8 & 1#8G IN 3/4" CONDUIT	FUSED 100/70/3/3R	63.0 MCA / 70A	2-BH	2
RTU-5	208	3	4	3#8 & 1#8G IN 3/4" CONDUIT	FUSED 100/70/3/3R	63.0 MCA / 70A	2-BH	2
RTU-6	208	3	4	3#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/50/3/3R	43.0 MCA / 50A	2-AH	1

NOTES:
 1. EQUIPMENT IS COMPATIBLE WITH EXISTING BRANCH CIRCUIT WIRING AND SUITABLE FOR USE WITH EXISTING BREAKER IN PANEL. PROVIDE NEW FUSIBLE DISCONNECT AND RE-WORK CIRCUIT TO FEED NEW UNIT.
 2. EXISTING CIRCUIT SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED TO FEED NEW UNIT.

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.



#	Description	DATE

JOB No.	H59-6213-ML
DATE:	08/9/23
DRAWN BY:	EMB
CHECKED BY:	WRL
SHEET	NUMBER

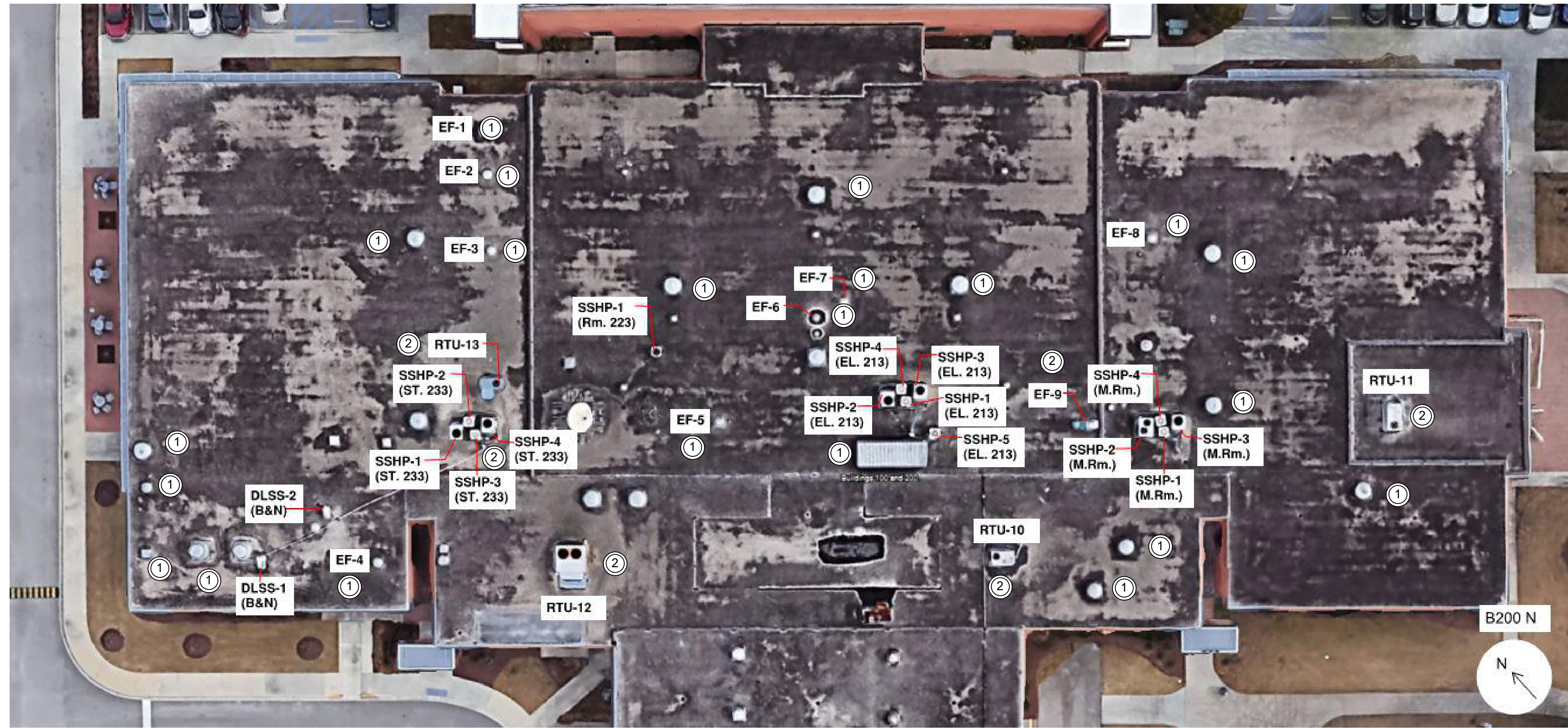
E101

PLOT DATE: 07/23/23

EQUIPMENT CONNECTION SCHEDULE - BUILDING 200 SOUTH								
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCP (BREAKER)	PANEL	NOTES
ROOF TOP UNITS (RTU)								
RTU-1	208	3	4	3#4 & 1#10G IN 1" CONDUIT	FUSED 60/60/3/3R	60.0 MCA / 60A	BCP - RM. 253	2
RTU-3	208	3	4	3#4 & 1#8G IN 1" CONDUIT	FUSED 100/70/3/3R	63.0 MCA / 70A	H - RM. 234	2
RTU-4	208	3	4	3#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/50/3/3R	42.0 MCA / 50A	B - RM. 230	2
RTU-5	208	3	4	3#6 & 1#8G IN 3/4" CONDUIT	FUSED 100/80/3/3R	54.0 MCA / 80A	B - RM. 230	2
RTU-6	208	1	3	2#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/40/2/3R	40.0 MCA / 40A	BUSBAR - RM. 249	2
RTU-7	208	1	3	2#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/45/2/3R	45.0 MCA / 45A	BUSBAR - RM. 249	2
RTU-8	208	3	4	3#4 & 1#8G IN 1" CONDUIT	FUSED 60/60/3/3R	58.0 MCA / 60A	D - RM. 228	2
RTU-10	208	3	4	3#4 & 1#8G IN 1" CONDUIT	FUSED 100/70/3/3R	63.0 MCA / 70A	BA - RM. 213	2
RTU-11	208	3	4	3#4 & 1#8G IN 1" CONDUIT	FUSED 100/70/3/3R	63.0 MCA / 70A	--	2
RTU-12	208	3	4	3#1 & 1#8G IN 1 1/4" CONDUIT	FUSED 200/150/3/3R	106.0 MCA / 150A	BA - RM. 213	2
RTU-13	208	1	3	2#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/40/2/3R	40.0 MCA / 40A	A - MAIL RM.	2
EXHAUST FANS (EF)								
EF-11A	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/10 HP / 15A	A	1
EF-11B	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/10 HP / 15A	A	1
EF-11C	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/10 HP / 15A	A	1

NOTES:
 1. EQUIPMENT IS COMPATIBLE WITH EXISTING BRANCH CIRCUIT WIRING AND SUITABLE FOR USE WITH EXISTING BREAKER IN PANEL. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED AND RE-WORK CIRCUIT TO FEED NEW UNIT.
 2. EXISTING CIRCUIT SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED TO FEED NEW UNIT.

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.



1 BUILDING 200 NORTH CONWAY ELECTRICAL PLAN
 E102 NOT TO SCALE

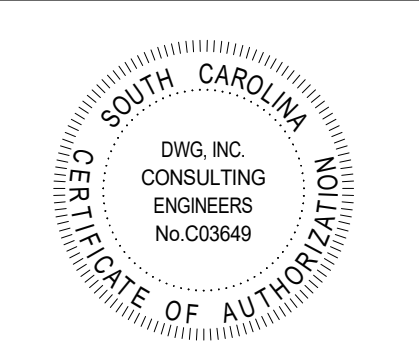
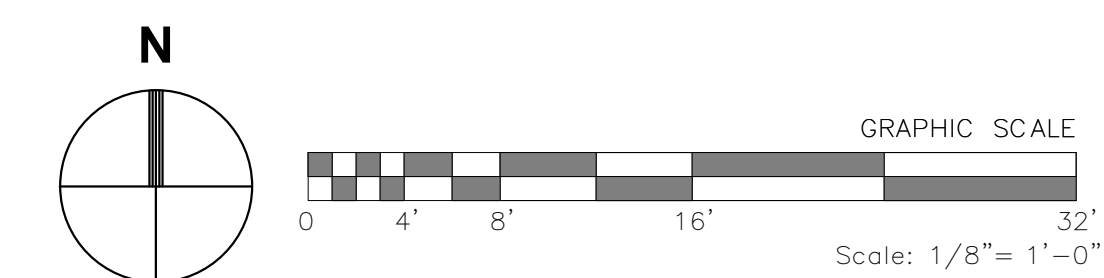


3 BUILDING 200 SOUTH CONWAY ELECTRICAL PLAN
 E102 SCALE: 12" = 1'-0"

EQUIPMENT CONNECTION SCHEDULE - BUILDING 200 NORTH								
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCP (BREAKER)	PANEL	NOTES
SPLIT SYSTEM (OUTDOOR UNITS)								
HP-1 (WEST)	208	3	4	3#8 & 1#10G IN 1" CONDUIT	FUSED 60/45/3/3R	34.0 MCA / 45A		2
HP-2 (WEST)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
HP-3 (WEST)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
HP-4 (WEST)	208	3	4	3#8 & 1#10G IN 1" CONDUIT	FUSED 60/45/3/3R	34.0 MCA / 45A		2
HP-1 (CENTER)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
HP-2 (CENTER)	208	3	4	3#8 & 1#10G IN 1" CONDUIT	FUSED 60/45/3/3R	34.0 MCA / 45A		2
HP-3 (CENTER)	208	3	4	3#8 & 1#10G IN 1" CONDUIT	FUSED 60/45/3/3R	34.0 MCA / 45A		2
HP-4 (CENTER)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
HP-5 (CENTER)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 30/30/3/3R	18.0 MCA / 30A		2
HP-6 (CENTER)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
HP-1 (EAST)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
HP-1 (EAST)	208	3	4	3#8 & 1#10G IN 1" CONDUIT	FUSED 60/45/3/3R	34.0 MCA / 45A		2
HP-1 (EAST)	208	3	4	3#8 & 1#10G IN 1" CONDUIT	FUSED 60/45/3/3R	34.0 MCA / 45A		2
HP-1 (EAST)	208	3	4	3#10 & 1#10G IN 1" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A		2
DLSS-1	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 60/35/3/3R	25.0 MCA / 31A		2
DLSS-2	120	1	3	2#12 & 1#10G IN 3/4" CONDUIT	FUSED 30/30/3/3R	11.0 MCA / 28A		2
SPLIT SYSTEM (INDOOR UNITS)								
AHU-1 (WEST)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	6.6 MCA / 15A		1
AHU-2 (WEST)	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
AHU-3 (WEST)	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
AHU-4 (WEST)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	6.6 MCA / 15A		1
AHU-1 (CENTER)	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
AHU-2 (CENTER)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	6.6 MCA / 15A		1
AHU-3 (CENTER)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	6.6 MCA / 15A		1
AHU-4 (CENTER)	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
AHU-5 (CENTER)	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
AHU-6 (CENTER)	208	1	3	2#6 & 1#10G IN 3/4" CONDUIT	FUSED 30/15/2/1	52.0 MCA / 60A		1
AHU-1 (EAST)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
AHU-2 (EAST)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	6.6 MCA / 15A		1
AHU-3 (EAST)	208	3	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	6.6 MCA / 15A		1
AHU-4 (EAST)	208	1	4	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/15/2/1	9.0 MCA / 15A		1
DLSS-1	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	NON FUSED 30/1/1	--		1
DLSS-1	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	NON FUSED 30/1/1	--		1

NOTES:
 1. EQUIPMENT IS COMPATIBLE WITH EXISTING BRANCH CIRCUIT WIRING AND SUITABLE FOR USE WITH EXISTING BREAKER IN PANEL. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED AND RE-WORK CIRCUIT TO FEED NEW UNIT.
 2. EXISTING CIRCUIT SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED TO FEED NEW UNIT.

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.



8/9/2023



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 BUILDING 200 CONWAY ELECTRICAL PLAN

#	Description	DATE

JOB No. H59-6213-ML
 DATE: 08/9/23
 DRAWN BY: EMB
 CHECKED BY: WRL
 SHEET NUMBER

E102



1 BUILDING 500 CONWAY ELECTRICAL PLAN
E103 NOT TO SCALE

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.

EQUIPMENT CONNECTION SCHEDULE - BUILDING 500								
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCP (BREAKER)	PANEL	
SPLIT - SYSTEM								
AH-1	208	1	3	2#8 & 1#10G IN 3/4" CONDUIT	FUSED 60/60/1/1	52.0 MCA / 60A	MA	
HP-1	208	3	3	3#12 & 1#12G IN 3/4" CONDUIT	FUSED 60/35/3/3R	21.0 MCA / 35A	MA	

NOTES:
EXISTING CIRCUIT SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED TO FEED NEW UNIT.

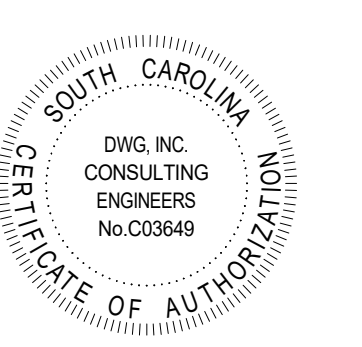


2 BUILDING 600 CONWAY ELECTRICAL PLAN - ALTERNATE BID
E103 NOT TO SCALE

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.

EQUIPMENT CONNECTION SCHEDULE - BUILDING 600 - ALTERNATE BID							
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCP (BREAKER)	
ROOF TOP UNITS (RTU)							
RTU-2	208	3	4	3#1 & 1#6G IN 1 1/4" CONDUIT	FUSED 200/125/3/3R	108.0 MCA / 125A	
RTU-3	208	3	4	3#1 & 1#6G IN 1 1/4" CONDUIT	FUSED 100/100/3/3R	63.0 MCA / 110A	
EXHAUST FANS (EF)							
EF-1	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/10 HP / 15A	
EF-2	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/10 HP / 15A	
EF-3	208	3	4	3#12 & 1#12G IN 3/4" CONDUIT	NON FUSED 30/15/3/3R	1 1/2 HP / 15A	
EF-4	208	3	4	3#12 & 1#12G IN 3/4" CONDUIT	NON FUSED 30/20/3/3R	5 HP / 20A	
EF-5	208	3	4	3#12 & 1#12G IN 3/4" CONDUIT	NON FUSED 30/15/3/3R	2 HP / 15A	
EF-6	208	3	4	3#12 & 1#12G IN 3/4" CONDUIT	NON FUSED 30/15/3/3R	2 HP / 15A	
EF-7	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/10 HP / 15A	

NOTE:
1. EXISTING CIRCUITS SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED TO FEED NEW UNIT.



8/9/2023

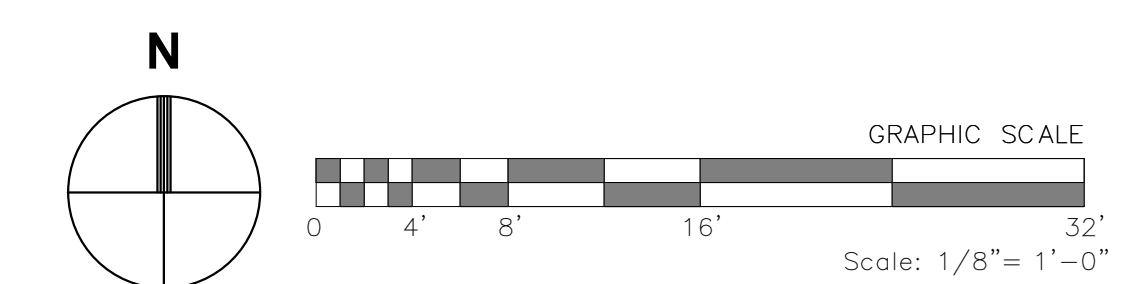


UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
BUILDING 500 & BUILDING 600 CONWAY ELECTRICAL PLAN

#	Description	DATE

JOB No.	H59-6213-ML
DATE:	08/9/23
DRAWN BY:	EMB
CHECKED BY:	WRL
SHEET NUMBER	

E103





1 BUILDING 700 CONWAY ELECTRICAL PLAN
E104 NOT TO SCALE

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.

EQUIPMENT CONNECTION SCHEDULE							
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCF (BREAKER)	PANEL
ROOF TOP UNITS (RTU)							
RTU-1	208	1	3	2#10 & 1#10G IN 3/4" CONDUIT	FUSED 30/30/1/3R	25.0 MCA / 30A	LC (MAIN ELEC.RM.)

NOTES:
1. EXISTING CIRCUIT SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED TO FEED NEW UNIT.

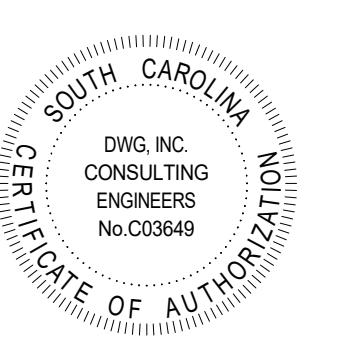


2 BUILDING 800 CONWAY ELECTRICAL PLAN
E104 NOT TO SCALE

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.

EQUIPMENT CONNECTION SCHEDULE						
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD
EXHAUST FANS (EF)						
EF-2	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	2.3 A / 15A

NOTES:
1. EQUIPMENT IS COMPATIBLE WITH EXISTING BRANCH CIRCUIT WIRING AND SUITABLE FOR USE WITH EXISTING BREAKER IN PANEL.



8/9/2023



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 BUILDING 700 & BUILDING 800 CONWAY ELECTRICAL
 PLAN

#	Description	DATE

JOB No.	H59-6213-ML
DATE:	08/9/23
DRAWN BY:	EMB
CHECKED BY:	WRL
SHEET	NUMBER

E104

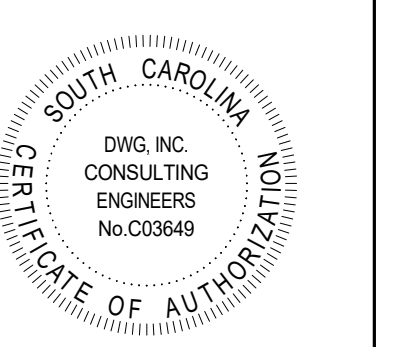


1 BUILDING 900 CONWAY ELECTRICAL PLAN
E105 NOT TO SCALE

EQUIPMENT CONNECTION SCHEDULE								
MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCBP (BREAKER)	PANEL	NOTES
SPLIT SYSTEM (INDOOR UNIT)								
SS AH / HP-1	120	1	3	2#8 & 1#10G IN 3/4" CONDUIT	FUSED 60/40/1/1	40.0 MCA / 40A	ELEV. EQUIP. RM.	1
SS AH / HP-2	120	1	3	2#8 & 1#10G IN 3/4" CONDUIT	FUSED 60/40/1/1	40.0 MCA / 40A	B - MAIN ELEC. RM.	1
HP / AH-910	120	1	3	2#10 & 1#10G IN 3/4" CONDUIT	FUSED 30/30/1/1	27.0 MCA / 30A	UNIT CLOSET	1
HP / AH-911	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/20/1/1	20.0 MCA / 20A	UNIT CLOSET	1
AH / HP-2	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/20/1/1	20.0 MCA / 20A	UNIT CLOSET	2
AH / HP-3	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/20/1/1	20.0 MCA / 20A	UNIT CLOSET	2
AH / HP-4	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/20/1/1	20.0 MCA / 20A	UNIT CLOSET	2
AH / HP-5	120	1	3	2#10 & 1#10G IN 3/4" CONDUIT	FUSED 30/30/1/1	27.0 MCA / 30A	UNIT CLOSET	2
SPLIT SYSTEM (OUTDOOR UNIT)								
SS AH / HP-1	208	3	4	3#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/30/3/3R	18.0 MCA / 30A	PANEL	1
SS AH / HP-2	208	3	4	3#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/30/3/3R	18.0 MCA / 30A	PANEL	1
HP / AH-910	208	1	3	3#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/30/2/3R	18.0 MCA / 30A	A - MAIN ELEC. RM.	1
HP / AH-911	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/25/2/3R	15.0 MCA / 25A	UNIT CLOSET	2
AH / HP-2	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/25/2/3R	15.0 MCA / 25A	UNIT CLOSET	2
AH / HP-3	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/25/2/3R	15.0 MCA / 25A	UNIT CLOSET	2
AH / HP-4	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/25/2/3R	15.0 MCA / 25A	UNIT CLOSET	2
AH / HP-5	208	1	3	2#12 & 1#12G IN 3/4" CONDUIT	FUSED 30/25/2/3R	15.0 MCA / 25A	UNIT CLOSET	2
EXHAUST FANS (EF)								
EF-1	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/60 HP / 15A	PANEL	1
EF-2	120	1	3	2#12 & 1#12G IN 3/4" CONDUIT	TOGGLE SWITCH	1/60 HP / 15A	PANEL	1

NOTES:
 1. EQUIPMENT IS COMPATIBLE WITH EXISTING BRANCH CIRCUIT WIRING AND SUITABLE FOR USE WITH EXISTING BREAKER IN PANEL PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED AND RE-WORK CIRCUIT TO FEED NEW UNIT.
 2. EXISTING CIRCUIT SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED. PROVIDE NEW FUSIBLE DISCONNECT WITH FUSE SIZE SPECIFIED AND RE-WORK CIRCUIT TO FEED NEW UNIT.

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.



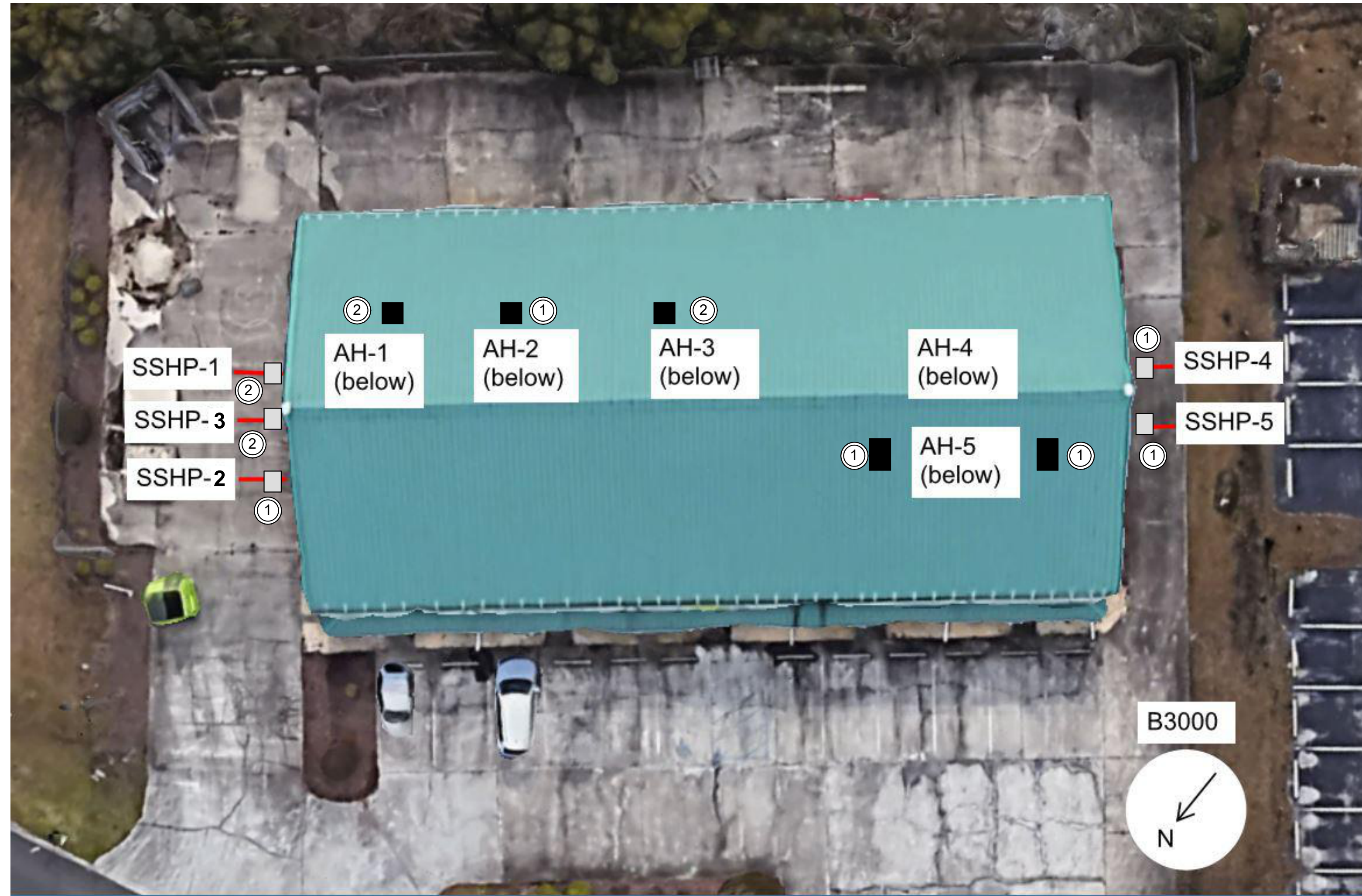
8/9/2023



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 BUILDING 900 CONWAY ELECTRICAL PLAN

#	Description	DATE
JOB No.	H59-6213-ML	
DATE:	08/9/23	
DRAWN BY:	EMB	
CHECKED BY:	WRL	
SHEET	NUMBER	

E105



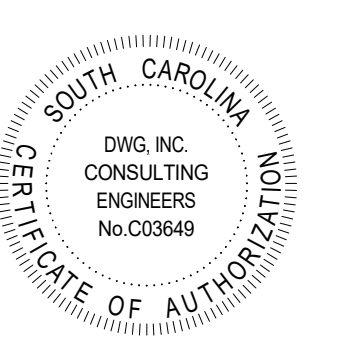
1 BUILDING 3000 CONWAY ELECTRICAL PLAN
E107 NOT TO SCALE

EQUIPMENT CONNECTION SCHEDULE

MARK	VOLTAGE	PHASE	WIRE	BRANCH CIRCUIT WIRING	DISCONNECT (AMPS/FUSE/POLES/ENCLOSURE)	LOAD / MOCP (BREAKER)
SPLIT SYSTEM (INDOOR UNIT)						
SS AH / HP-1	120	1	3	2#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/45/1/1	43.0 MCA / 45A
SS AH / HP-3	120	1	3	2#6 & 1#10G IN 3/4" CONDUIT	FUSED 60/45/1/1	43.0 MCA / 45A
SPLIT SYSTEM (OUTDOOR UNIT)						
SS AH / HP-1	120	1	3	2#10 & 1#10G IN 3/4" CONDUIT	FUSED 60/40/3/3R	24.0 MCA / 40A
SS AH / HP-3	120	1	3	2#12 & 1#10G IN 3/4" CONDUIT	FUSED 60/40/3/3R	24.0 MCA / 40A

NOTES:
1. EXISTING CIRCUITS SHALL BE DEMOLISHED BACK TO PANEL AND BE INSTALLED/CONFIGURED WITH BRANCH CIRCUIT AND BREAKER SPECIFIED. EQUIPMENT SHALL BE WORKED INTO EXISTING SPACE ON PANEL AS PREVIOUSLY INSTALLED.

KEYNOTES	
①	EXISTING EQUIPMENT TO REMAIN.
②	EXISTING EQUIPMENT TO BE DEMOLISHED.



8/9/2023



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
BUILDING 3000 CONWAY ELECTRICAL PLAN

#	Description	DATE
JOB No.	H59-6213-ML	
DATE:	08/9/23	
DRAWN BY:	EMB	
CHECKED BY:	WRL	
SHEET	NUMBER	

E107

MECHANICAL SYSTEMS
SEISMIC AND WIND REQUIREMENTS

PER IBC-2021/ASCE 7-16

- A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
- B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.
- C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
- D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
- E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
- F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.
- G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
- H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

MECHANICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0

Ip = 1.5

ALL HVAC COMPONENTS EXCEPT AS NOTED IN Ip=1.5

SEISMIC DESIGN CATEGORIES D,E,F

COMPONENT IMPORTANCE FACTOR (Ip)

1.0

1.5

COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>3"	4	>1"	4
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4	RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
DUCTWORK		6 SQ.FT. AND LARGER AND >17 LBS/FT	4,5	6 SQ.FT. AND LARGER AND > 17 LBS/FT	4,5
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,5	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,3
COMPONENT CERTIFICATION		NOT REQUIRED	-	REQUIRED	6

- NOTES:
- 1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - 2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - 3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
 - 4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
 - 5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
 - 6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

GENERAL HVAC NOTES

- 1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY.
- 2. THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE CODES LISTED ON THIS SHEET AS WELL AS ALL LOCAL CODE OFFICIAL REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN CODES, THE MOST STRINGENT SHALL ALWAYS GOVERN.
- 3. DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- 4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CLEARANCES PRIOR TO FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS. WHERE CONDITIONS REQUIRE A CHANGE IN DUCT OR PIPE ROUTING, NOTIFY THE ARCHITECT FOR AN ACCEPTABLE ALTERNATIVE METHOD. AVOID ROUTING DUCTWORK DIRECTLY OVER LIGHT FIXTURES, DIFFUSERS, AND OTHER CEILING MTD. DEVICES. LOCATE ALL MECHANICAL EQUIPMENT SO THAT FILTERS AND COMPONENTS REQUIRING ACCESS (SERVICE AND MAINTENANCE) ARE FULLY ACCESSIBLE.
- 5. PROVIDE CURVED RADIUS ELBOW AT FIRST SUPPLY & RETURN FITTING FOR ALL HVAC UNITS. PROVIDE TURNING VANES IN ALL 90 DEGREE ELBOWS IN ALL RECTANGULAR SUPPLY/RETURN EXHAUST DUCT SYSTEMS. ANY OFFSETS REQUIRED IN DUCT SYSTEMS SHALL BE INSTALLED PER SMACNA 2005 3RD EDITION MANUAL. SHARP ANGLED TRANSITIONS OR OFFSETS WILL NOT BE ALLOWED. PROVIDE DUCT ACCESS DOORS AS REQUIRED.
- 6. INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE ARCHITECT IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED.
- 7. ALL DUCT TAKE-OFFS SHALL BE INSTALLED AS SHOWN BY DETAILS ON THE PLANS WITH A MANUAL BALANCING DAMPER AT EVERY TAKE-OFF. WHERE DUCT RUN-OUT SIZE IS NOT SHOWN PROVIDE DUCT SAME SIZE AS GRILLE NECK SIZE. PRE-INSULATED FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO SUPPLY GRILLES (MAX. LENGTH 5 FEET).
- 8. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH PRESCRIBED CLEARANCES FOR SERVICE AND MAINTENANCE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF RECOMMENDED CLEARANCES ARE NOT POSSIBLE BEFORE INSTALLING EQUIPMENT.
- 9. ALL ROTATING MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION. PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS BETWEEN DUCTWORK AND ISOLATED MECHANICAL EQUIPMENT.
- 10. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE RATED WALLS/FLOORS/CEILINGS BY DUCTWORK PIPING, ETC., WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING OF THE BARRIER.
- 11. SEISMIC PROTECTION OF EQUIPMENT, DUCTWORK, PIPING AND UTILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION. ALL SEISMIC RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS. FOR ADDITIONAL INFORMATION, SEE 'MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS' ON THIS SHEET. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF SEISMIC BRACING DEVICES WITH THE OWNER'S SEISMIC SPECIAL INSPECTOR. PROVIDE A MINIMUM OF SEVEN DAYS ADVANCE NOTICE OF INSTALLATION.
- 12. BALANCE ALL AIR DISTRIBUTION DEVICES, EXHAUST FANS, AND OUTSIDE AIR QUANTITIES AS SCHEDULED OR SHOWN ON THE DRAWINGS. PROVIDE MARKERS AT ALL DAMPER LOCATIONS SHOWING FULL OPEN/CLOSED POSITIONS AND DAMPER SETTING FOR REQUIRED AIRFLOW. PROVIDE FINAL TEST AND BALANCE REPORT ALONG W/ SCHEMATIC DRAWINGS SHOWING DIFFUSER LOCATION W/ DESIGN AND ACTUAL CFM. THE DIFFUSER TAGS ON THE DRAWINGS SHALL CORRESPOND TO THE DIFFUSER TAGS ON THE REPORT. THIS REPORT SHALL BE SUBMITTED BEFORE THE FINAL INSPECTION IS PERFORMED. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
- 13. ALL CONTROL WIRING, CONDUIT AND CONTROLS ACCESSORIES NECESSARY TO IMPLEMENT THE OUTLINED SEQUENCES OF OPERATION SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.
- 14. WIND LOAD PROTECTION OF ROOF MOUNTED EQUIPMENT AND DUCTWORK SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION. ALL WIND LOAD RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS.
- 15. ALL EXPOSED PIPING AND DUCTWORK SHALL BE PAINTED. COORDINATE W/ ARCHITECTURAL PLANS/SPECIFICATIONS FOR EXPOSED LOCATIONS AND PAINTING REQUIREMENTS.
- 16. SEE ARCHITECTURAL DOCUMENTS FOR ROOF PENETRATION AND FLASHING REQUIREMENTS.
- 17. WHERE "APPROXIMATELY" IS USED TO DEFINE INSTALLATION LOCATIONS, CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO VERIFY THERE ARE NO CONFLICTS PRIOR TO INSTALLATION AT DIMENSION LISTED.

MECHANICAL ABBREVIATIONS

ABBR	DESCRIPTION
(E)	EXISTING
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSE POWER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BASIS OF DESIGN
BOP	BOTTOM OF PIPE
C	DOMESTIC COLD WATER SUPPLY
CCR	COOLING CONDENSATE RETURN
CFM	CUBIC FEET PER MINUTE
CHF	CHEMICAL FEED
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CO	CLEANOUT
CP	CENTRAL PLANT
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CU	CONDENSING UNIT
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DRN	DRAIN
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRICAL DUCT HEATER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EQ	EQUALIZER
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FRPM	FAN ROTATIONS PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
H	DOMESTIC HOT WATER SUPPLY
HD	HUB DRAIN
HP	HEAT PUMP
HP	HORSEPOWER
HR	DOMESTIC HOT WATER RETURN
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS OF BTU'S PER HOUR
MC	MECHANICAL CONTRACTOR
MD	MANUAL DAMPER
NC	NOISE CRITERIA
NG	NATURAL GAS PIPING
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OF	OVER FLOW
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PS	PIPE SUPPORT
RA	RETURN AIR
REFRR	REFRIGERANT
RH	RELATIVE HUMIDITY
RM	REMOTE MONITOR
RPM	ROTATIONS PER MINUTE
RTU	ROOF TOP UNIT
RW	RAIN WATER
SA	SUPPLY AIR
SF	SUPPLY FAN
TDV	TRIPLE DUTY VALVE
TW	TEMPERED WATER
TWR	TOWER SEPARATOR RETURN
TWS	TOWER SEPARATOR SUPPLY
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VNT	VENT
W	WITH
WMS	WIRE MESH SCREEN
WSHP	WATER SOURCE HEAT PUMP
*F	DEGREES FAHRENHEIT

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AIR TERMINAL TAG, X=TYPE MARK, Y=CFM		COMPONENT TO BE DEMOLISHED
	AIR TERMINAL DIFFUSER (CEILING MOUNTED)		DUCTWORK (X" = WIDTH, Y" = HEIGHT)
	AIR TERMINAL RETURN GRILLE (CEILING MOUNTED)		TURNING VANES
	AIR TERMINAL EXHAUST GRILLE (CEILING MOUNTED)		CONDENSING UNIT
	AIR TERMINAL ROUND CONE DIFFUSER		ROOFTOP UNIT
	SIDEWALL REGISTER / GRILLE		SINGLE DUCT AIR TERMINAL UNIT
	THERMOSTAT		ROOF CAP
	HUMIDISTAT		CEILING MOUNTED EXHAUST FAN
	CO2 SENSOR		PREINSULATED FLEXIBLE DUCT
	FAN POWERED BOX		CABLE OPERATED DAMPER
	DUCT MOUNTED SMOKE DETECTOR (BY E.C.)		PITCH POCKET
	EQUIPMENT CLEARANCE		
	FIRE DAMPER		FLEXIBLE DUCT CONNECTION
	MANUAL DAMPER		CONNECTION TO EXISTING SYSTEM
	THERMOSTAT (DUCT MOUNTED)		MOTORIZED DAMPER
	HUMIDISTAT (DUCT MOUNTED)		

HVAC PIPING SPECIALTIES SYMBOL LEGEND

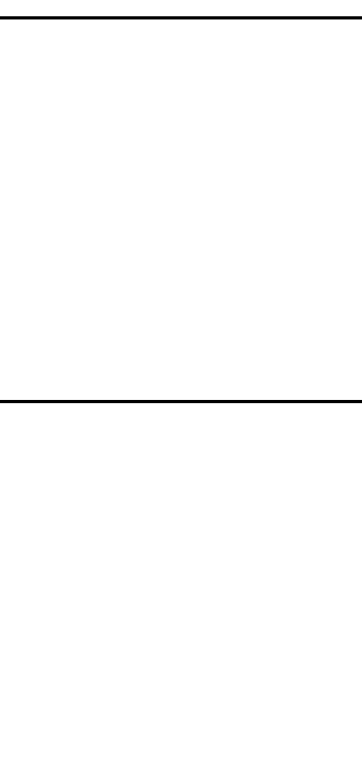
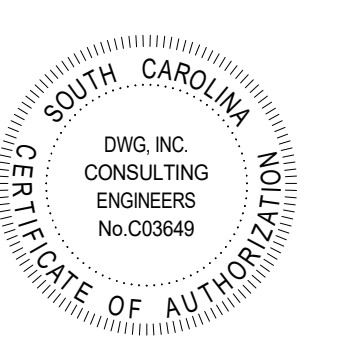
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AUTOMATIC AIR VENT		AUTOMATIC BALANCING CONTROL VALVE
	BACKFLOW PREVENTER		BALL VALVE
	BASKET STRAINER		CIRCUIT SENSOR
	CIRCUIT SETTER		CONCENTRIC REDUCER/INCHREASER
	DIRECTION OF PIPING FLOW		DOUBLE SUCTION PUMP
	DRAIN VALVE W/ HOSE CONNECTION		EARTHQUAKE VALVE
	ECCENTRIC REDUCER/INCHREASER		END SUCTION PUMP
	FLANGE CONNECTION		GATE VALVE
	HOSE BIBB		MOTORIZED BALL VALVE
	MOTORIZED BUTTERFLY VALVE		PIPE CAP
	PIPING SLOPE		PLUG VALVE
	PRESSURE REDUCING VALVE		PUMP CONNECTOR/FLEX CONNECTOR
	PUMP SUCTION DIFFUSER		RELIEF VALVE
	RINSE VALVE		SANITARY SEWER
	SOLENOID VALVE		STORM SEWER
	SWING CHECK VALVE		TRIPLE DUTY VALVE
	UNION		WAFER CHECK VALVE
	WYE STRAINER		WYE STRAINER W/ BLOWDOWN BALL VALVE WITH HOSE CONNECTION
	2-WAY CONTROL VALVE		3-WAY CONTROL VALVE

MECHANICAL CODES AND STANDARDS
(WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IMC (2021)	INTERNATIONAL MECHANICAL CODE
NFPA 90A (2021)	STANDARD FOR THE INSTALLATION AIR-CONDITIONING & VENTILATING SYSTEMS
NFPA 96 (2021)	STANDARD FOR VENTILATION CONTROL & FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
SMACNA (2005)	HVAC DUCT CONSTRUCTION STANDARDS MANUAL, THIRD EDITION
IFGC (2021)	INTERNATIONAL FUEL GAS CODE

DESIGN CONDITIONS

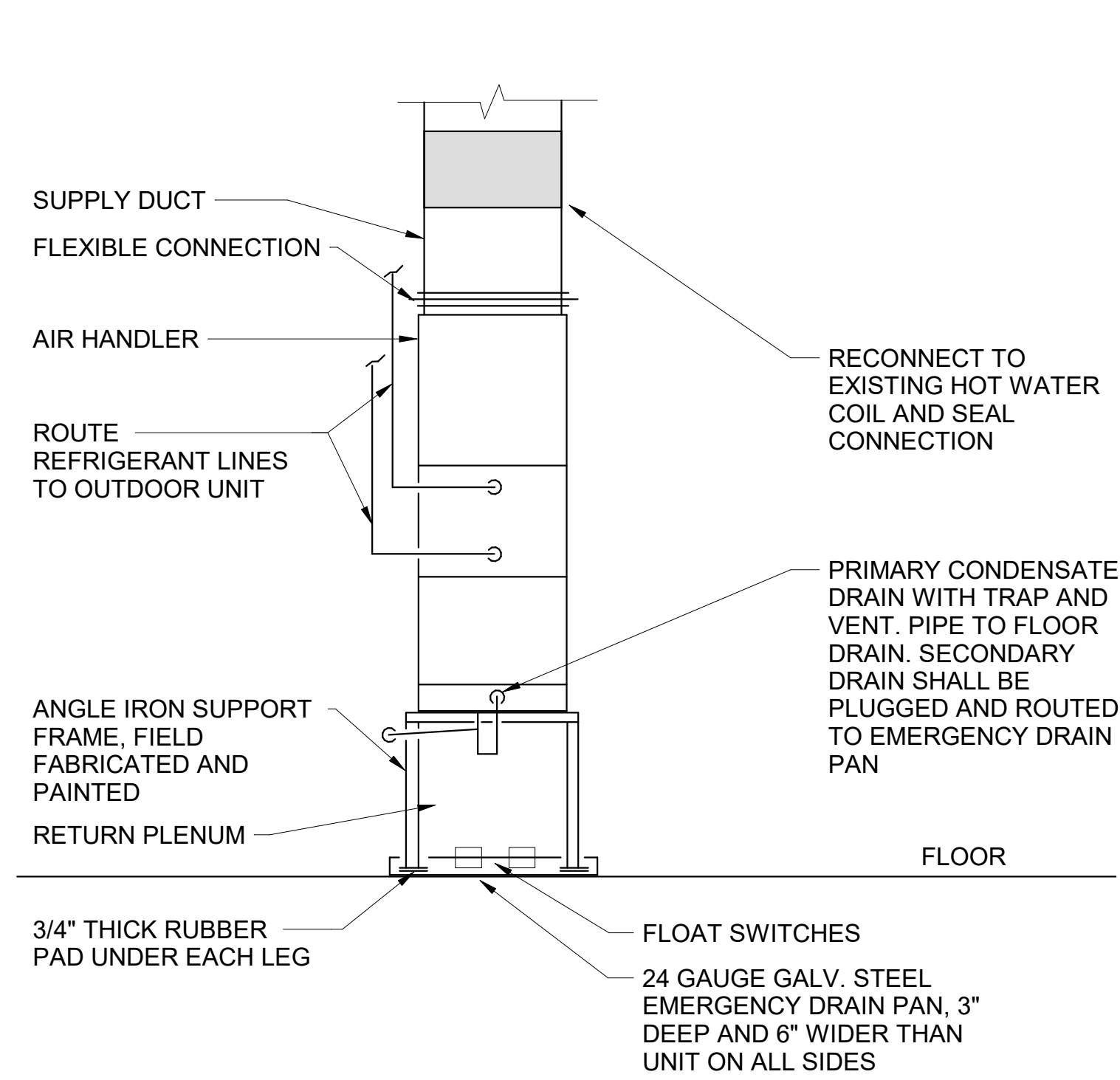
SUMMER	OUTDOOR: 95F DB / 80F WB	INDOOR: 75F DB / 50% RH
WINTER	OUTDOOR: 25F DB	INDOOR: 70F DB / 50% RH



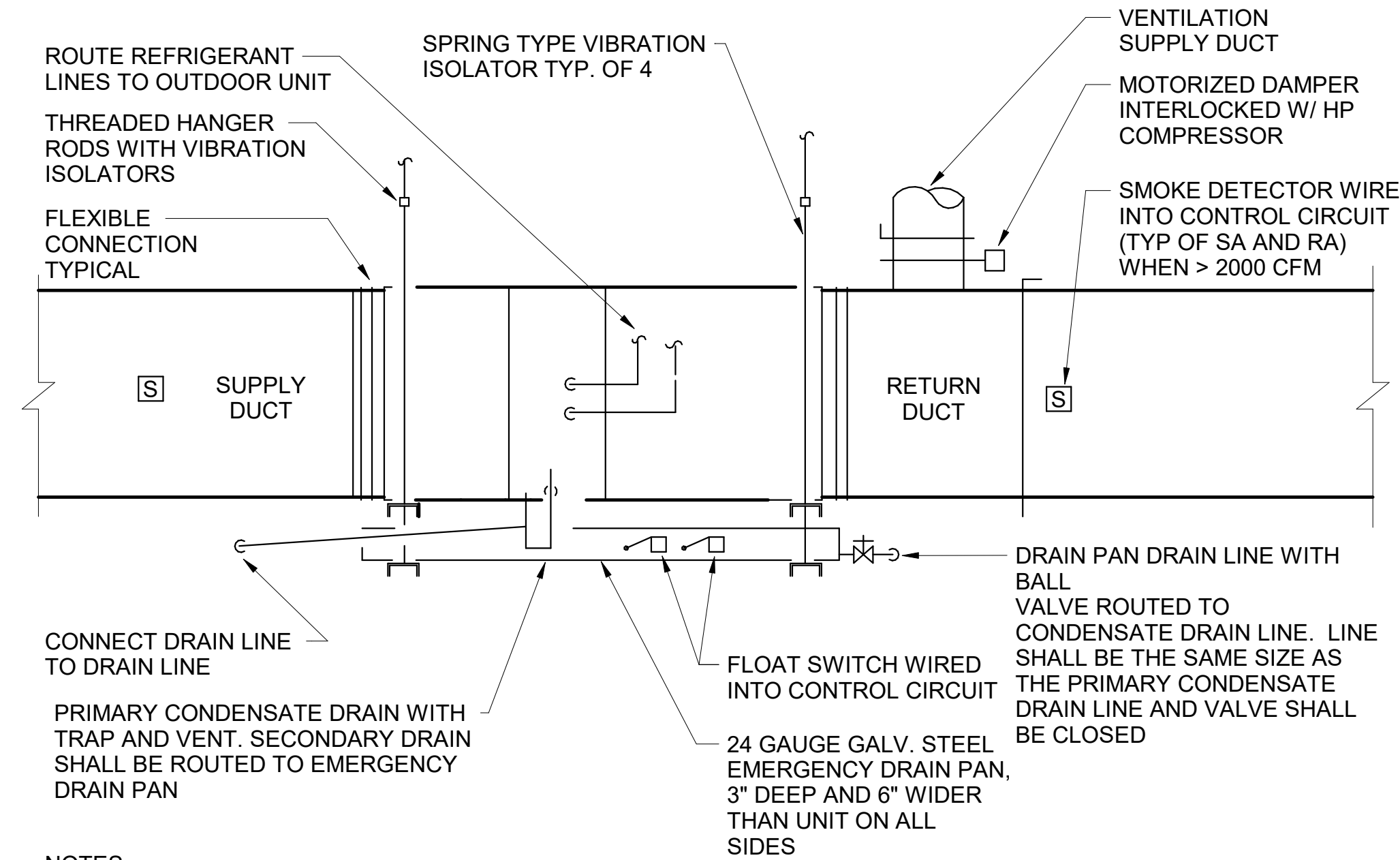
UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
MECHANICAL NOTES & LEGENDS

#	Description	DATE
JOB No.		HS9-6213-ML
DATE:		08/9/23
DRAWN BY:	ADL	
CHECKED BY:	WDB	
SHEET		NUMBER

M001

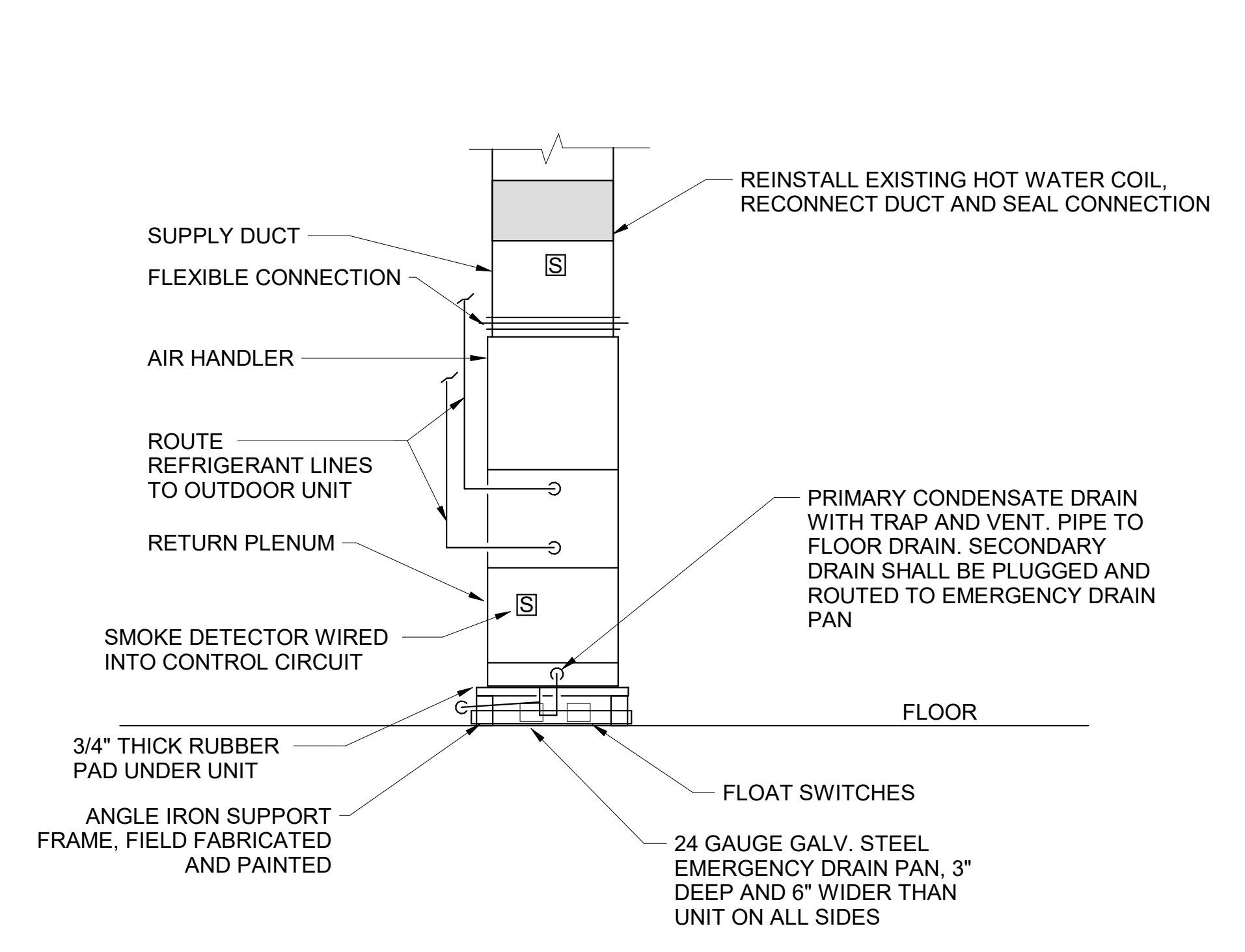


6 VERTICAL AIR HANDLER INSTALLATION DETAIL
SCALE: NOT TO SCALE

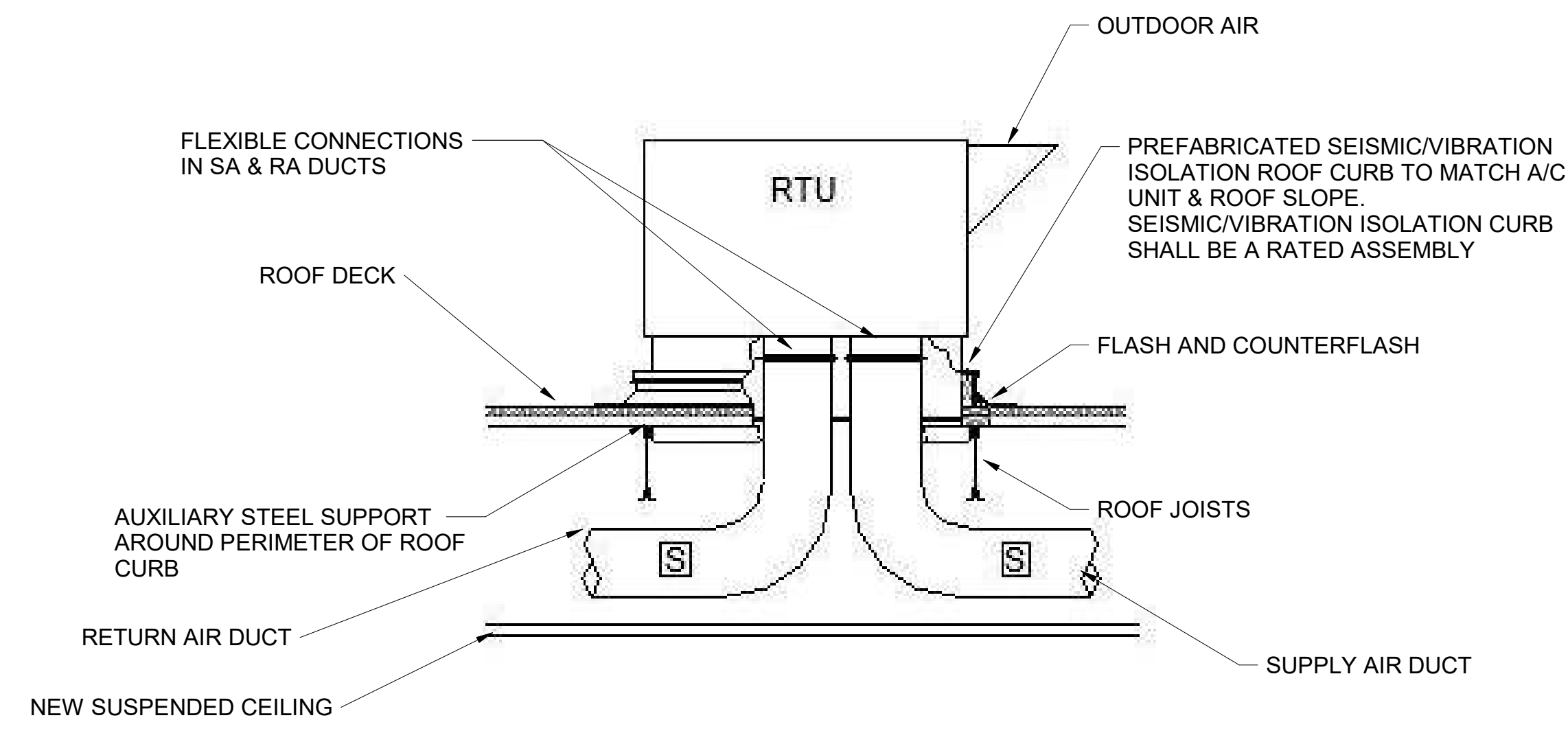


- NOTES:
- ROUTE DRAIN LINES AS INDICATED ON DRAWINGS. ALL DRAIN LINES SHALL SLOPE AT LEAST 1" PER 10 FT. CONTINUOUSLY. LINES SHALL NOT BE ALLOWED TO RUN ALONG THE CEILING STRUCTURE AND RISE UP AGAIN.
 - PROVIDE HANGING RODS FOR UNITS SUSPENDED FROM STRUCTURE AND SUSPEND EMERGENCY DRAIN PAN FROM UNIT.
 - SUPPORT EMERGENCY DRAIN PAN ON ANGLES OR STRUTS; PAN TO BE EASILY REMOVABLE FOR MAINTENANCE ACCESS

2 HORIZONTAL AHU INSTALLATION DETAIL
SCALE: NOT TO SCALE

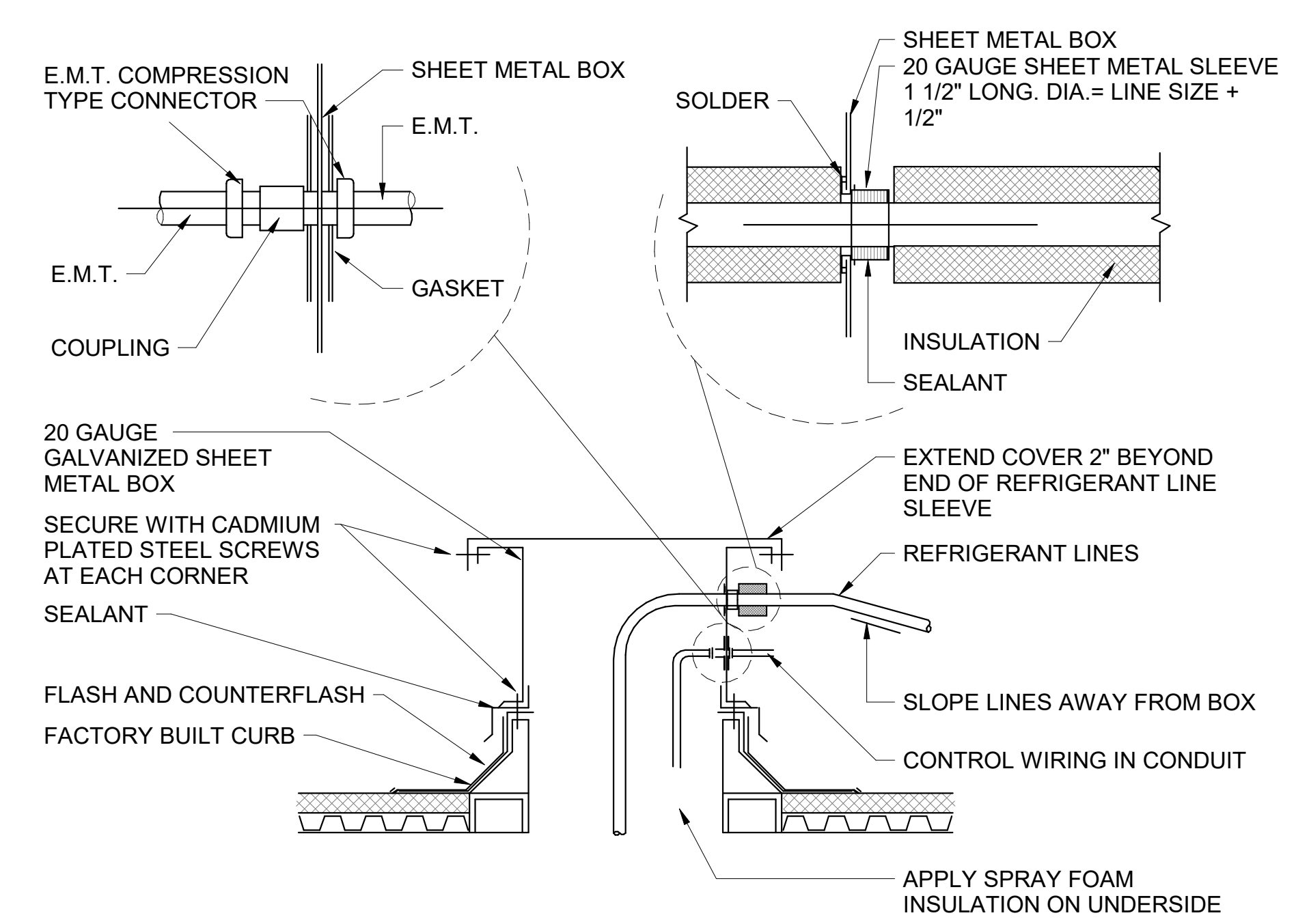


9 VERTICAL AIR HANDLER INSTALLATION DETAIL - 7.5 TON UNIT
SCALE: NOT TO SCALE



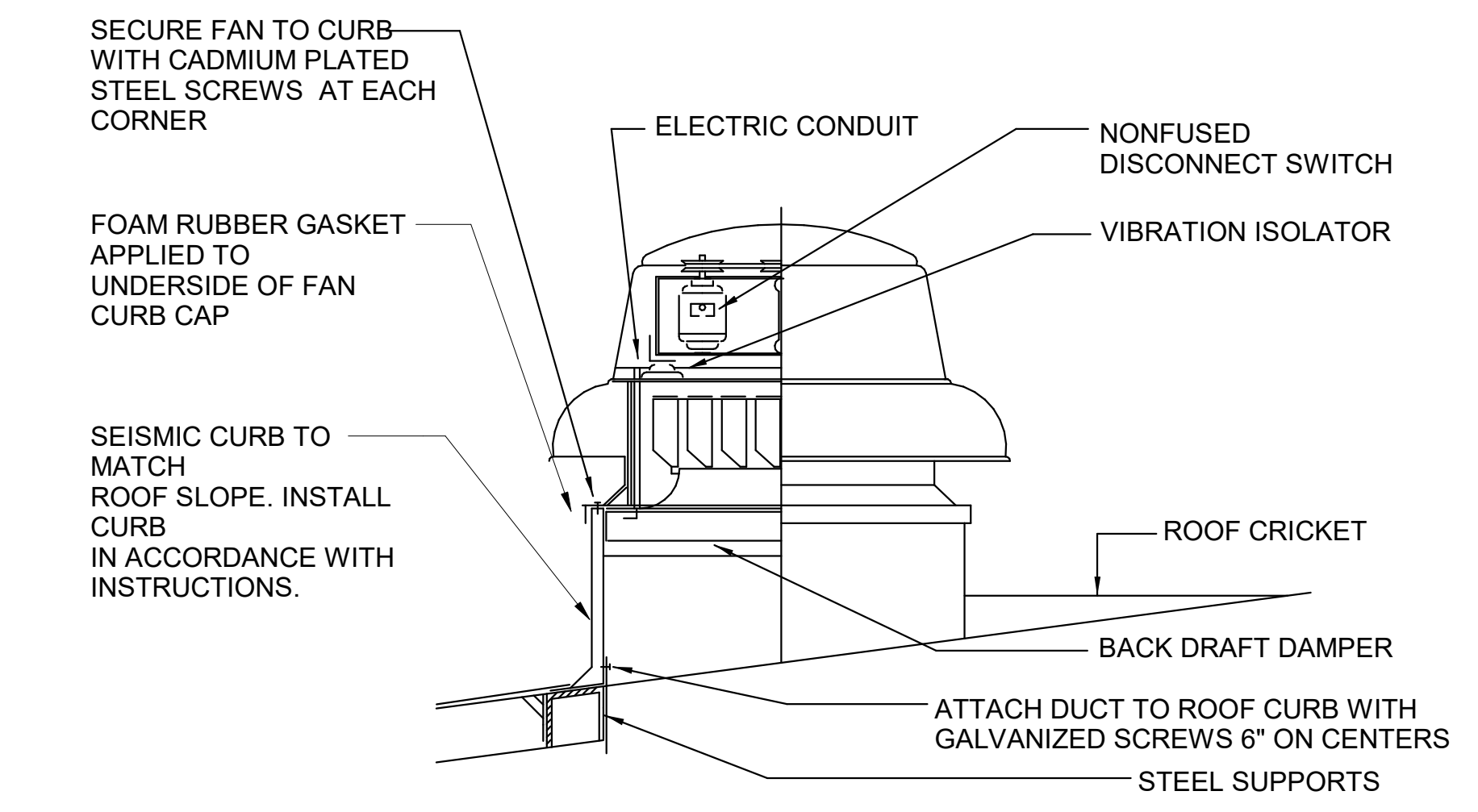
- NOTES:
- PROVIDE EQUIPMENT ROOF CURBS W/ INTEGRAL VIBRATION ISOLATION SPRINGS.
 - CURB SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER AND SHALL BE INSTALLED AND FLASHED BY THE ROOFING CONTRACTOR.
 - WHERE OPENINGS IN ROOF ARE CUT LARGER THAN REQUIRED FOR DUCT PENETRATION THE CONTRACTOR SHALL PROVIDE 16 OZ. ACOUSTIBLOK BETWEEN OPENING AND BOTTOM OF UNIT FOR SOUND REDUCTION.
 - PROVIDE AND INSTALL 1/2" THICK DUCT LINER IN THE FIRST 10 FEET FROM UNIT ON SUPPLY AND RETURN DUCT. LINER SHALL BE FLEXIBLE ELASTOMERIC.

3 ROOF TOP UNIT INSTALLATION DETAIL
SCALE: NOT TO SCALE

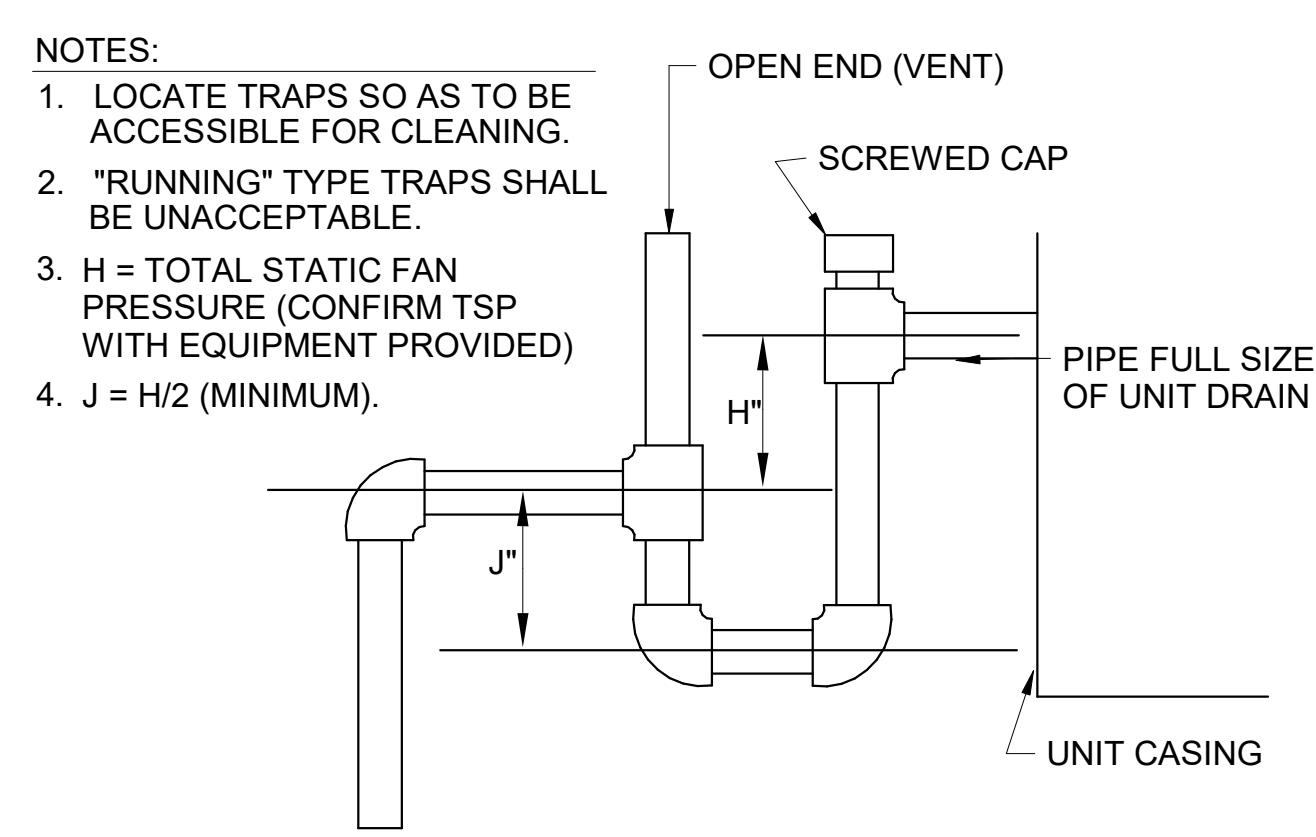


- NOTE:
- SIZE BOX TO ACCOMMODATE MULTIPLE LINE SETS TO MINIMIZE ROOF PENETRATIONS. PROVIDE SEPARATE BOX PENETRATIONS FOR LIQUID AND SUCTION LINES.

5 REFRIGERANT LINE/ROOF PENETRATION DETAIL
SCALE: NOT TO SCALE

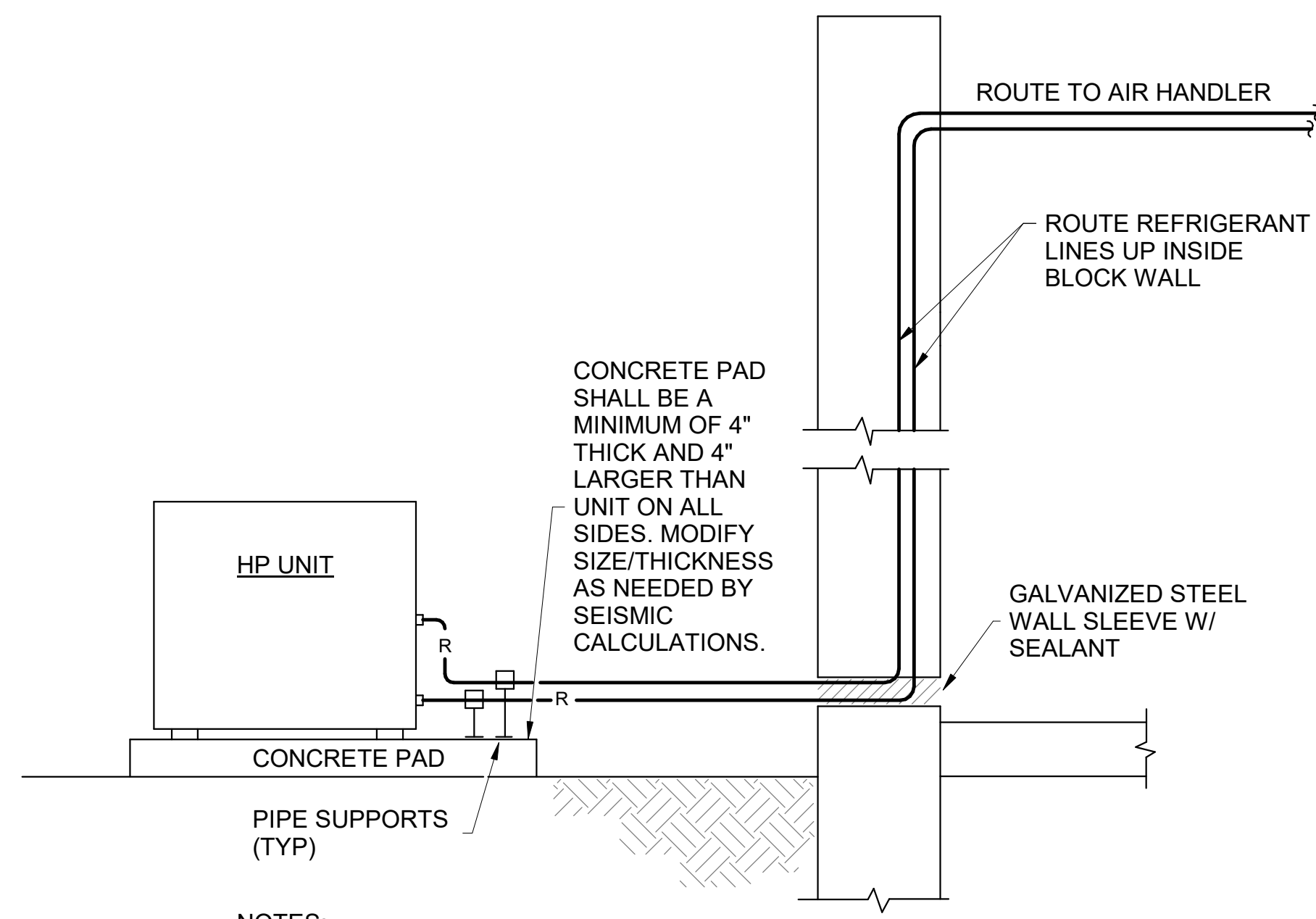


4 ROOF EXHAUST FAN INSTALLATION DETAIL
SCALE: NOT TO SCALE



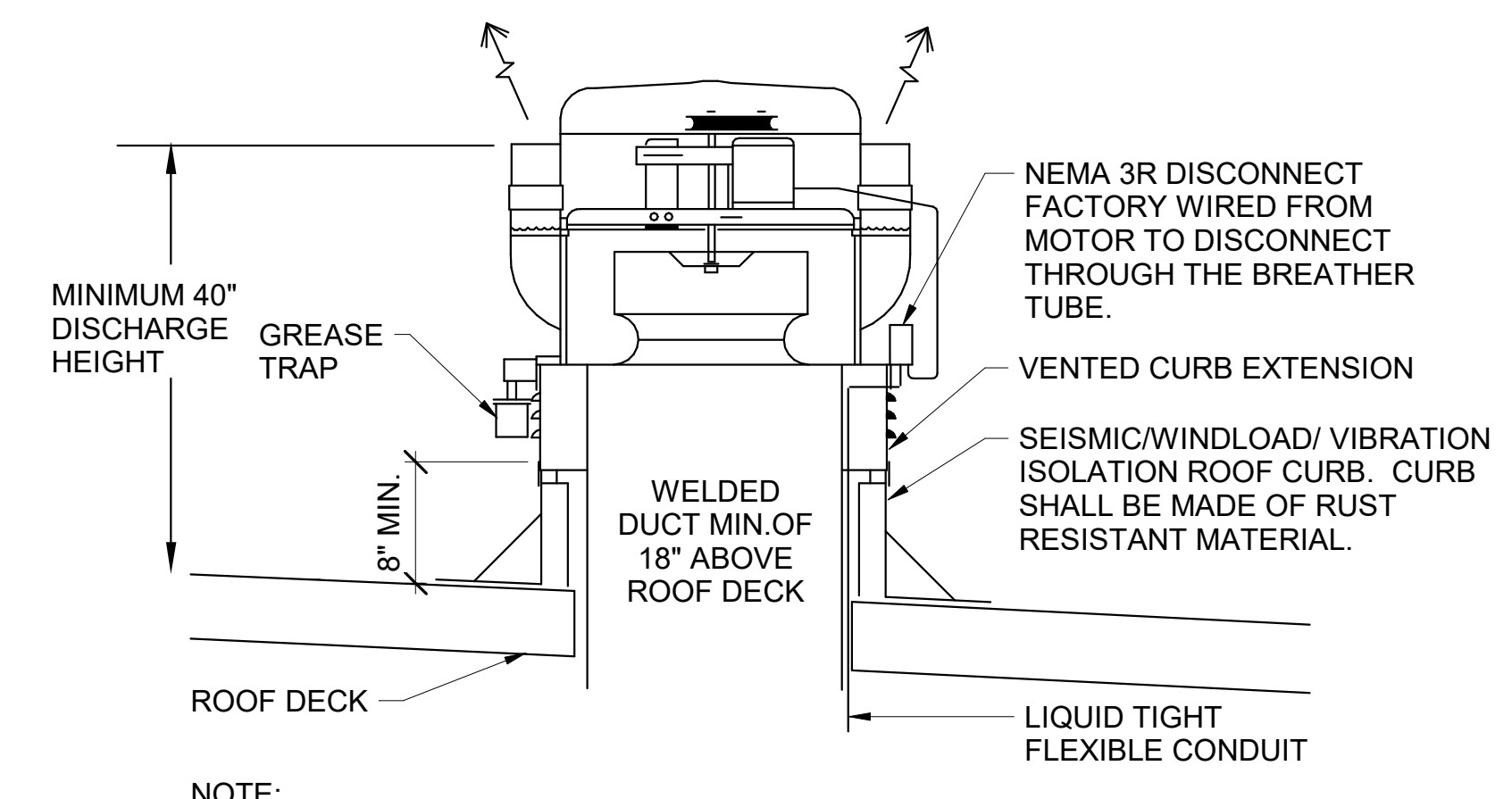
- NOTES:
- LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
 - "RUNNING" TYPE TRAPS SHALL BE UNACCEPTABLE.
 - H = TOTAL STATIC FAN PRESSURE (CONFIRM TSP WITH EQUIPMENT PROVIDED)
 - J = H/2 (MINIMUM).

7 CONDENSATE DRAIN TRAP INSTALLATION DETAIL
SCALE: NOT TO SCALE



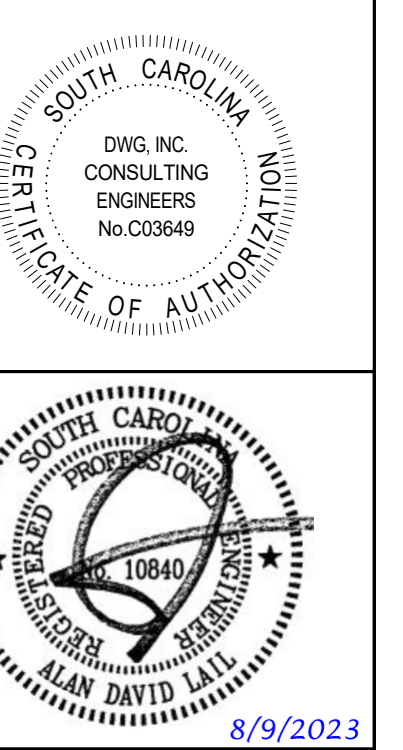
- NOTES:
- ALL PIPING SHALL BE HARD DRAWN COPPER TUBING WITH SOLDERED JOINTS.
 - SUCTION LINE INSULATION OUTDOORS SHALL BE PAINTED WITH METAL JACKET.

8 OUTDOOR UNIT INSTALLATION DETAIL
SCALE: NOT TO SCALE



- NOTE:
- PROVIDE FAN WITH HINGE FOR MAINTENANCE AND CLEANING.

1 KITCHEN EXHAUST FAN DETAIL
SCALE: NOT TO SCALE



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
MECHANICAL DETAILS

#	Description	DATE
JOB No.	H59-6213-ML	
DATE:		08/9/23
DRAWN BY:	ADL	
CHECKED BY:	WDB	
SHEET	NUMBER	

M002



1 BUILDING 100 CONWAY MECHANICAL PLAN
M101 NOT TO SCALE

ROOFTOP HEAT PUMP SCHEDULE - CW BUILDING 100 - BASE BID

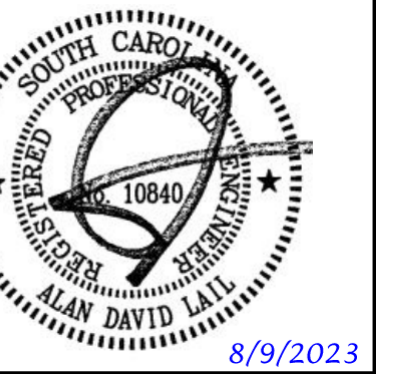
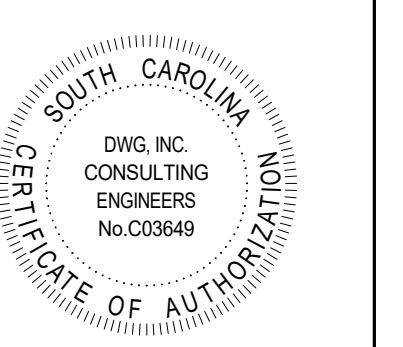
UNIT	EQUIPMENT TYPE	LOCATION	EXISTING MANUFACTURER	EXISTING MODEL	NEW MANUFACTURER	NEW MODEL	TOTAL COOLING (BTUH)	SENSIBLE COOLING (BTUH)	HEATING @ 47F (BTUH)	ELECTRIC HEAT (KW)	VOLTAGE	MCA/MOCP	KEY NOTES
RTU-1	PACKAGED HP	ROOF	BRYANT	548FPX060000AB	TRANE	WSC060	60,000	48,000	59,000	9 KW	208 V / 3 PHASE	63 / 70	①
RTU-3	PACKAGED HP	ROOF	CARRIER	50TFQ005-501GA	TRANE	WSC048	49,000	37,700	47,500	4.5 KW	208 V / 3 PHASE	43 / 50	②
RTU-4	PACKAGED HP	ROOF	BRYANT	548FPX060000AB	TRANE	WSC060	60,000	48,000	59,000	9 KW	208 V / 3 PHASE	63 / 70	③
RTU-5	PACKAGED HP	ROOF	BRYANT	548FPX060000AB	TRANE	WSC060	60,000	48,000	59,000	9 KW	208 V / 3 PHASE	63 / 70	④
RTU-6	PACKAGED HP	ROOF	TRANE	WSC048E3REAQHUD	TRANE	WSC048	49,000	37,700	47,500	4.5 KW	208 V / 3 PHASE	43 / 50	⑤

KEYNOTES

- ① - ⑤ REMOVE EXISTING AND PROVIDE NEW ROOFTOP UNIT
- ⑥ EXISTING EQUIPMENT TO REMAIN

GENERAL NOTES

1. REMOVE EXISTING ROOF CURB/CURB ADAPTER AND PROVIDE NEW CURB ADAPTER MATCHED TO ORIGINAL CURB.
2. PROVIDE NEW ELECTRICAL DISCONNECT FOR ALL UNITS.
3. PROVIDE NEW LABEL TO IDENTIFY UNIT.
4. PROVIDE OUTDOOR UNITS WITH ECOAT / SEACOAST PROTECTION.
5. FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
6. COORDINATE WITH CONTROL MANAGEMENT INC (CMI) AND RECONNECT NEW UNITS TO EXISTING CONTROL NETWORK.

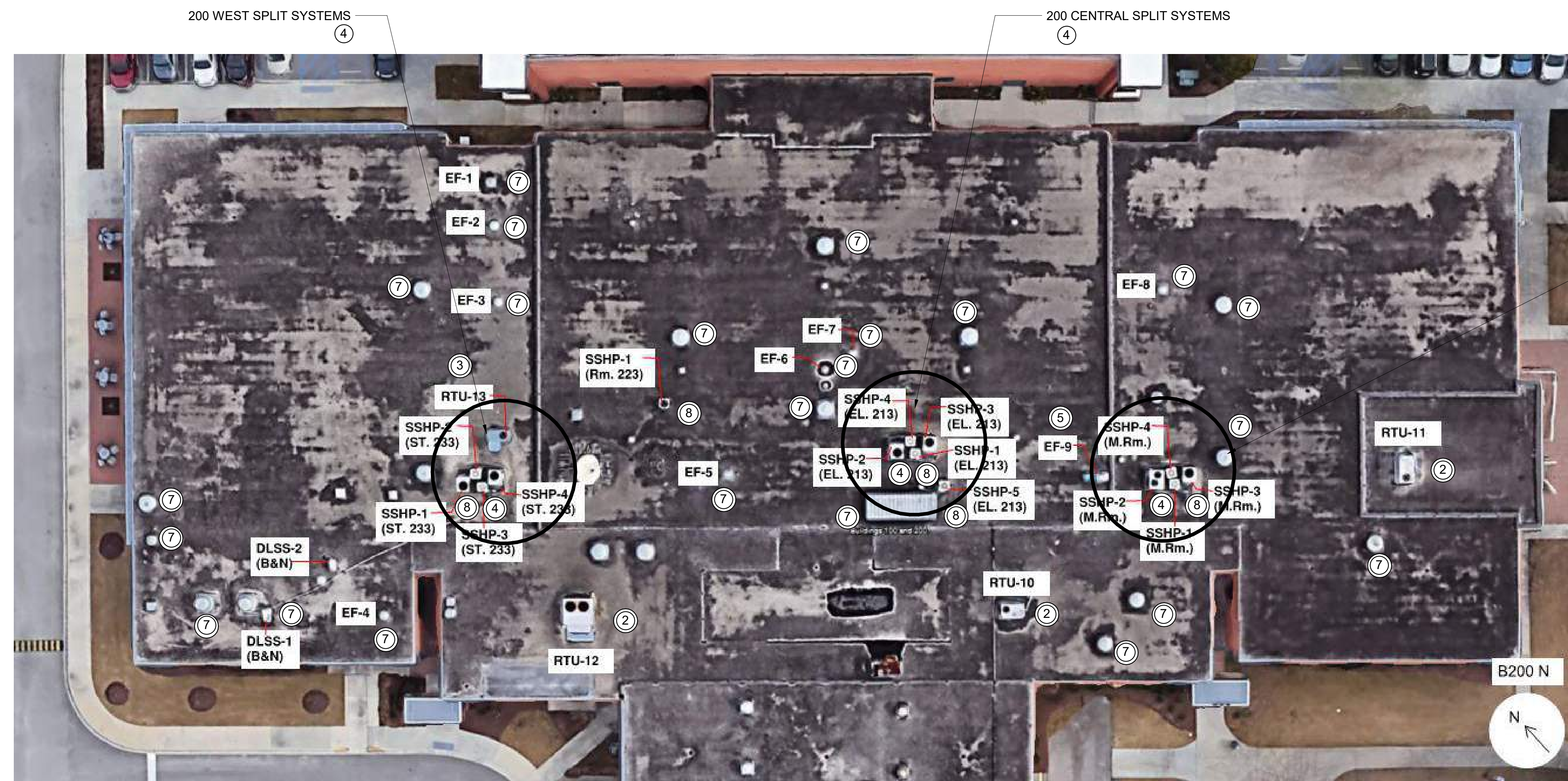


UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 B100 CONWAY MECHANICAL PLAN

#	Description	DATE

JOB No.	H59-6213-ML
DATE:	08/9/23
DRAWN BY:	ADL
CHECKED BY:	WDB
SHEET NUMBER	

M101



1 BUILDING 200 NORTH CONWAY MECHANICAL PLAN
M102 NOT TO SCALE



2 BUILDING 200 SOUTH CONWAY MECHANICAL PLAN
M102 NOT TO SCALE



FOR RTU-1 AND RTU-3, REMOVE WOOD FRAMING AND EXISTING DUCTWORK AND PROVIDE NEW CONCENTRIC SUPPLY AND RETURN DROPPING DOWN BETWEEN BAR JOISTS

3 BUILDING 200 CONCENTRIC SUPPLY/RETURN - RTU-1 AND RTU-3
M102 SCALE: NTS



FOR RTU-6 AND RTU-7, REMOVE EXISTING DUCTWORK AND PROVIDE NEW CONCENTRIC SUPPLY AND RETURN DROPPING DOWN BETWEEN BAR JOISTS

6 BUILDING 200 CONCENTRIC SUPPLY/RETURN - RTU-6 AND RTU-7
M102 SCALE: NTS

EXHAUST FAN SCHEDULE - CW BUILDING 200 - BASE BID									
UNIT	EQUIPMENT TYPE	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	STATIC PRESSURE (IN WG)	HP	VOLTAGE	NOTES
EF-11A	ROOFTOP EXHAUST FAN	SOUTH ROOF	GREENHECK	G-090-VG	500	0.25	1/10	120V / 1 PH	①
EF-11B	ROOFTOP EXHAUST FAN	SOUTH ROOF	GREENHECK	G-090-VG	500	0.25	1/10	120V / 1 PH	①
EF-11C	ROOFTOP EXHAUST FAN	SOUTH ROOF	GREENHECK	G-090-VG	500	0.25	1/10	120V / 1 PH	①

1. PROVIDE WALL MOUNTED CARBON MONOXIDE SENSOR CONTROL FOR ALL EXHAUST FANS.

ROOFTOP UNIT SCHEDULE - CW BUILDING 200 - BASE BID												
UNIT	EQUIPMENT TYPE	LOCATION	EXISTING MANUFACTURER	EXISTING MODEL	NEW MANUFACTURER	NEW MODEL	COOLING CAPACITY (BTUH)	ELECTRIC HEAT (KW)	VOLTAGE	MCA / MOCP	UNIT	KEY NOTES
RTU-1	PACKAGED HP	ROOF	GOODMAN	GPC1360H41BC	TRANE	4WCC4060	57,000	--	208 V / 1 PHASE	60 / 60	RTU-1	②
RTU-3	PACKAGED HP	ROOF	GOODMAN	GPC1360H43BA	TRANE	WSC060	60,000	9 KW	208 V / 3 PHASE	63 / 70	RTU-3	②
RTU-4	PACKAGED HP	ROOF	TRANE	TCD036C300BC	TRANE	WSC036	36,000	4.5 KW	208 V / 3 PHASE	42 / 50	RTU-4	③
RTU-5	PACKAGED HP	ROOF	TRANE	TCD120C30AA	TRANE	WSC120	120,000	--	208 V / 3 PHASE	54 / 80	RTU-5	③
RTU-6	PACKAGED HP	ROOF	GOODMAN	GPH1436M41AC	TRANE	4WCC4036	36,000	--	208 V / 1 PHASE	40 / 40	RTU-6	②
RTU-7	PACKAGED HP	ROOF	BRYANT	601ANX0420000AG	TRANE	4WCC4042	42,000	--	208 V / 1 PHASE	45 / 45	RTU-7	②
RTU-8	PACKAGED HP	ROOF	TRANE	WCC048F300BG	TRANE	WSC048	48,000	9 KW	208 V / 3 PHASE	58 / 60	RTU-8	③
RTU-10	PACKAGED HP	ROOF	BRYANT	548DPX060000AAA	TRANE	WSC060	60,000	9 KW	208 V / 3 PHASE	63 / 70	RTU-10	③
RTU-11	PACKAGED HP	ROOF	TRANE	BYC060	TRANE	WSC060	60,000	9 KW	208 V / 3 PHASE	63 / 70	RTU-11	③
RTU-12	PACKAGED HP	ROOF	BRYANT	559FPX240000AFHB	TRANE	WSJ240	240,000	--	208 V / 3 PHASE	108 / 150	RTU-12	②
RTU-13	PACKAGED HP	ROOF - IT ROOM	GOODMAN	GPH1336H41AA	TRANE	4WCC4036	36,000	6 KW	208 V / 1 PHASE	40 / 40	RTU-13	②

1. REMOVE EXISTING CURB/PLATFORM AND PROVIDE NEW 14 INCH CURB.
2. RECONNECT TO EXISTING DUCTWORK AND SEAL.
3. PROVIDE WITH E-COAST / SEACOAST PROTECTION FOR CONDENSER COILS.

KEY NOTES

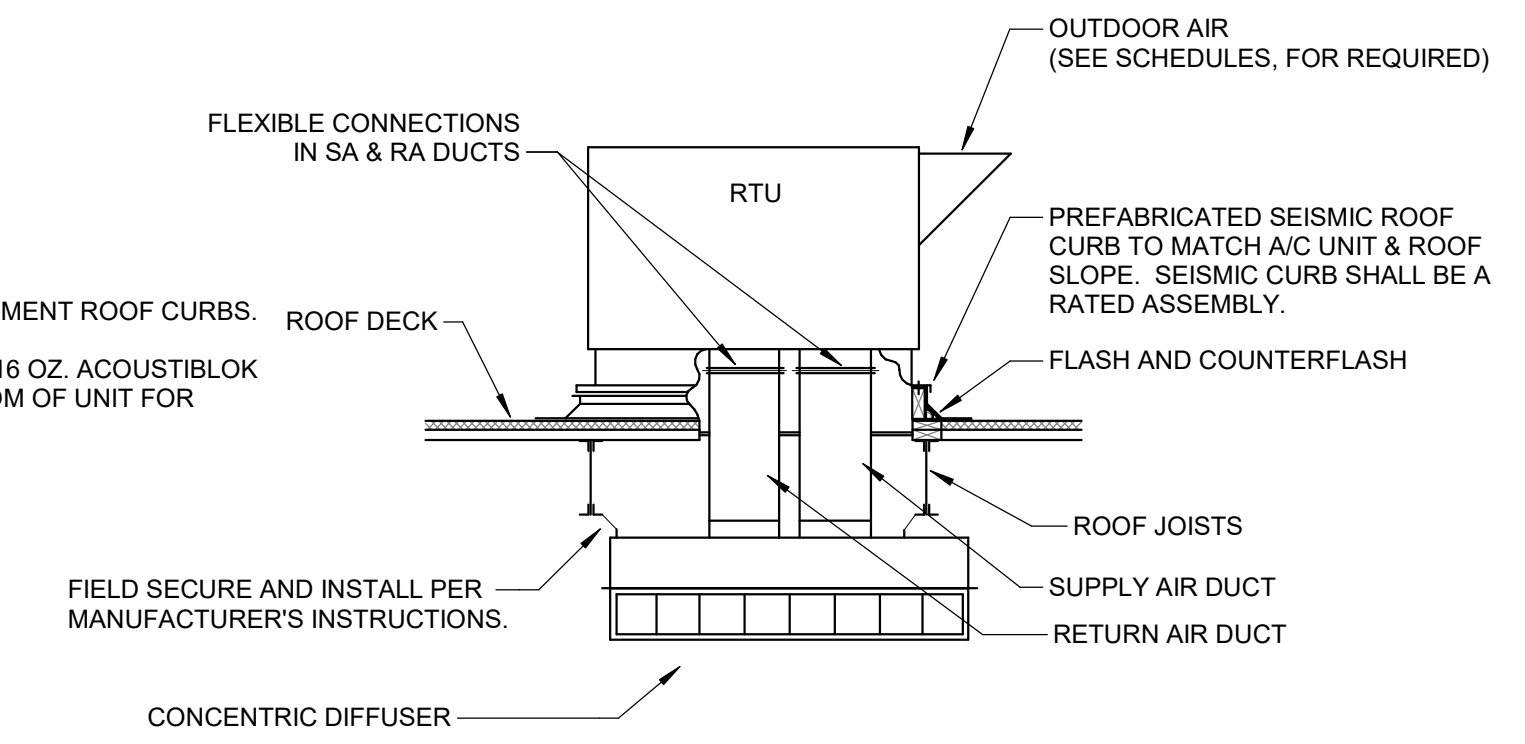
- REMOVE EXISTING AND PROVIDE NEW EXHAUST FAN WITH 14 INCH CURB AND NEW WALL MOUNTED CARBON MONOXIDE SENSOR CONTROL
- REMOVE EXISTING RTU AND PROVIDE NEW RTU WITH 14 INCH CURB FOR VERTICAL DISCHARGE. FOR RTU-1, 3, 6 AND 7, REMOVE EXISTING DUCTWORK INSIDE SPACE AND PROVIDE NEW CONCENTRIC SUPPLY AND RETURN DUCT
- REMOVE EXISTING RTU AND PROVIDE NEW RTU ON 14 INCH CURB WITH HORIZONTAL DISCHARGE. SEE DRAWING M102A FOR TYPICAL UNIT
- EXISTING PLATFORM FOR OUTDOOR UNITS. SEE DRAWING M102B
- REMOVE EXISTING EF-9, ASSOCIATED DUCTWORK AND SUPPORT FRAME. REPAIR ROOF TO MATCH EXISTING/ SEE DRAWING M102A
- REMOVE EXISTING EF-13, ASSOCIATED DUCTWORK AND SUPPORT FRAME. REPAIR ROOF TO MATCH EXISTING/ SEE DRAWING M102A
- EXISTING TO REMAIN
- SEE SPLIT SYSTEM SCHEDULE DRAWING M102A

GENERAL NOTES

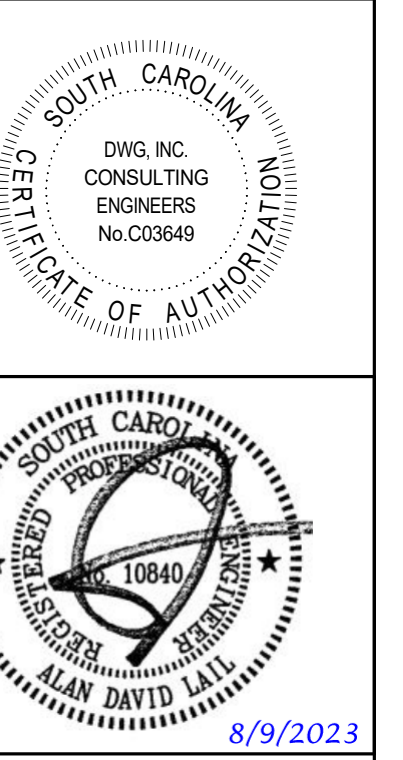
- PROVIDE NEW ELECTRICAL DISCONNECT FOR ALL UNITS.
- PROVIDE NEW LABEL TO IDENTIFY UNIT.
- PROVIDE UNITS WITH ECOAT / SEACOAST PROTECTION.
- FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- RECONNECT NEW UNITS TO EXISTING CONTROLS.

NOTES:

- PROVIDE SEISMIC RATED EQUIPMENT ROOF CURBS.
- CONTRACTOR SHALL PROVIDE 16 OZ. ACUSTIBLOK BETWEEN OPENING AND BOTTOM OF UNIT FOR SOUND REDUCTION.



7 ROOF TOP UNIT INSTALLATION DETAIL-CONCENTRIC DIFFUSER
M102 SCALE: NOT TO SCALE



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
B200 CONWAY MECHANICAL PLAN

#	Description	DATE
JOB No.	H59-6213-ML	
DATE:	08/9/23	
DRAWN BY:	ADL	
CHECKED BY:	WDB	
SHEET	NUMBER	

M102

SPLIT SYSTEM SCHEDULE - CW BUILDING 200 - BASE BID

UNIT	EQUIPMENT TYPE	OUTDOOR UNIT LOCATION	INDOOR UNIT LOCATION	EXISTING MANUFACTURER	EXISTING MODEL		NEW MANUFACTURER	NEW MODEL		COOLING CAPACITY (BTUH)	AHU VOLTAGE	AHU MCA/MOCP	CONDENSING UNIT VOLTAGE	CONDENSING UNIT MCA/MOCP	KEY NOTES
					INDOOR UNIT	OUTDOOR UNIT		INDOOR UNIT	OUTDOOR UNIT						
SS AH / HP-1	SPLIT SYSTEM	WEST ROOF	ROOM 233	BRYANT	524AEH090090AAHC	569CPX090	TRANE	TWE090	TTA090	90,000	208 V / 3 PHASE	6.6 / 15	208 V / 3 PHASE	34 / 45	HW COIL (E) (6)
SS AH / HP-2	SPLIT SYSTEM	WEST ROOF	ROOM 233	BRYANT	FA4ANF060	561CPX060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	21 / 35	HW COIL (E) (6)
SS AH / HP-3	SPLIT SYSTEM	WEST ROOF	ROOM 233	BRYANT	FA4ANF060	561CPX060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	21 / 35	HW COIL (E) (6)
SS AH / HP-4	SPLIT SYSTEM	WEST ROOF	ROOM 233	BRYANT	524AEH090090AAHC	569CPX090	TRANE	TWE090	TTA090	90,000	208 V / 3 PHASE	6.6 / 15	208 V / 3 PHASE	34 / 45	HW COIL (E) (6)
SS AH / HP-1	SPLIT SYSTEM	CENTER ROOF	ELECT RM 213	BRYANT	FA4ANF060	561CPX060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	21 / 35	HW COIL (E) (7)
SS AH / HP-2	SPLIT SYSTEM	CENTER ROOF	ELECT RM 213	BRYANT	524AEH090090AAHC	569CPX090	TRANE	TWE090	TTA090	90,000	208 V / 3 PHASE	6.6 / 15	208 V / 3 PHASE	34 / 45	HW COIL (E) (7)
SS AH / HP-3	SPLIT SYSTEM	CENTER ROOF	ELECT RM 213	BRYANT	524AEH090090AAHC	569CPX090	TRANE	TWE090	TTA090	90,000	208 V / 3 PHASE	6.6 / 15	208 V / 3 PHASE	34 / 45	HW COIL (E) (7)
SS AH / HP-4	SPLIT SYSTEM	CENTER ROOF	ELECT RM 213	BRYANT	FA4ANF060	661CPX060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	21 / 35	HW COIL (E) (7)
SS AH / HP-5 (IT)	SPLIT SYSTEM	CENTER ROOF	ELECT RM 213	BRYANT	FA4ANF048	661CPX060	TRANE	TEM6B0C48H41	4TTA4060A3	48,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	18 / 30	7.2 KW ELECT HEAT
SS AH / HP-1	SPLIT SYSTEM	EAST ROOF	FRONT MECH RM	BRYANT	FA4ANF060	561CPX060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	21 / 35	HW COIL (E) (8)
SS AH / HP-2	SPLIT SYSTEM	EAST ROOF	FRONT MECH RM	CARRIER / BRYANT	524AEH090090AAHC	38ARZ08	TRANE	TWE090	TTA090	90,000	208 V / 3 PHASE	6.6 / 15	208 V / 3 PHASE	34 / 45	HW COIL (E) (8)
SS AH / HP-3	SPLIT SYSTEM	EAST ROOF	FRONT MECH RM	BRYANT	524AEH090090AAHC	569CPX090	TRANE	TWE090	TTA090	90,000	208 V / 3 PHASE	6.6 / 15	208 V / 3 PHASE	34 / 45	HW COIL (E) (8)
SS AH / HP-4	SPLIT SYSTEM	EAST ROOF	FRONT MECH RM	CARRIER	FA4ANF060	561CPX060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	9 / 15	208 V / 3 PHASE	21 / 35	HW COIL (E) (8)
DLSS-1 Indoor/Outdoor	DUCTLESS SPLIT SYSTEM	WEST ROOF	BARNES & NOBLE	SEABREEZE/HEAT CONTROLLER	B-VM36SC-1	A-VM36SC-1	MITSUBISHI	PKA-A36KA7	PUZ-A36NKA7	36,000	208 V / 1 PHASE	--	208 V / 1 PHASE	25 / 31	WALL MOUNT AT 8'-0" (3)
DLSS-2 Indoor/Outdoor	DUCTLESS SPLIT SYSTEM	WEST ROOF	BARNES & NOBLE	SEABREEZE	SMZCA12HAZIGX (CASSETTE)	SMZ18H46Z0GX	MITSUBISHI	PLA-A12AA (CASSETTE)	PUZ-A12NHA	12,000	208 V / 1 PHASE	--	208 V / 1 PHASE	11 / 28	CASSETTE
SS AH / HP-1	SPLIT SYSTEM	CENTER ROOF	RM 223	CARRIER	FA4ANF060	38YCC060	TRANE	TEM6B0C60H51	4TTA4060A3	60,000	208 V / 1 PHASE	52 / 60	208 V / 3 PHASE	21 / 35	7.2 KW ELECT HEAT

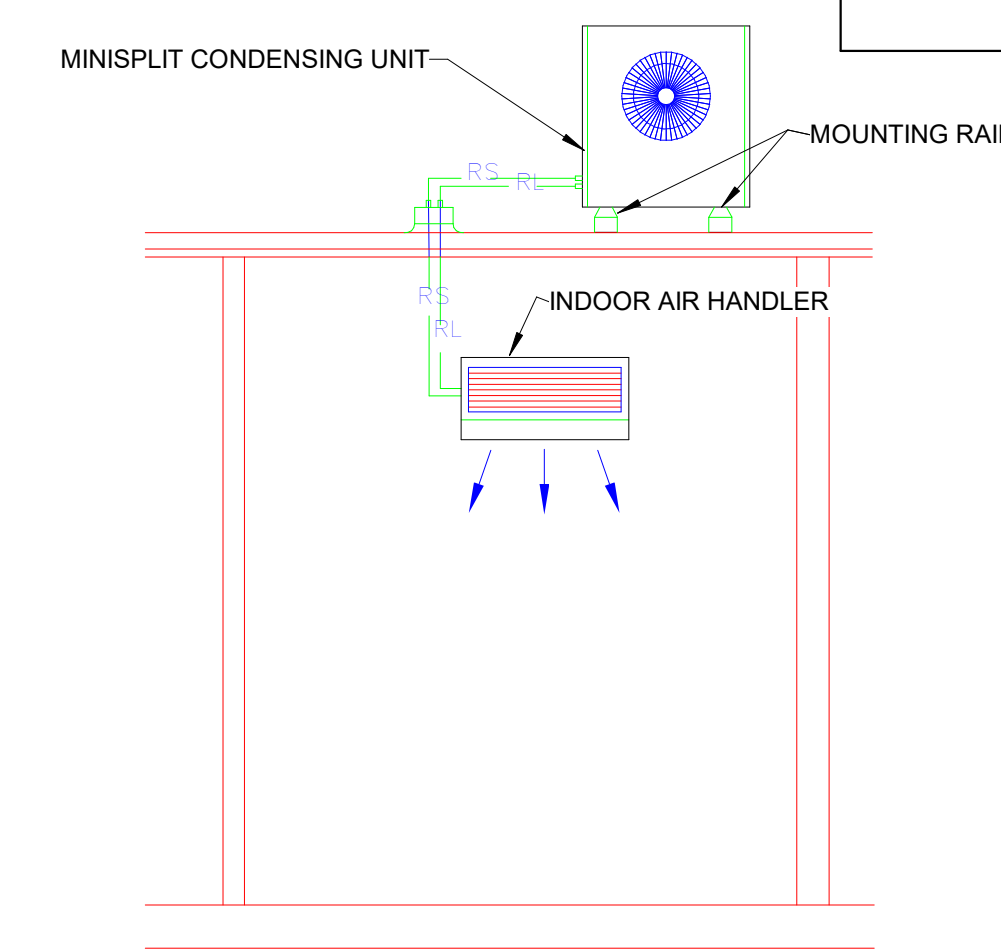
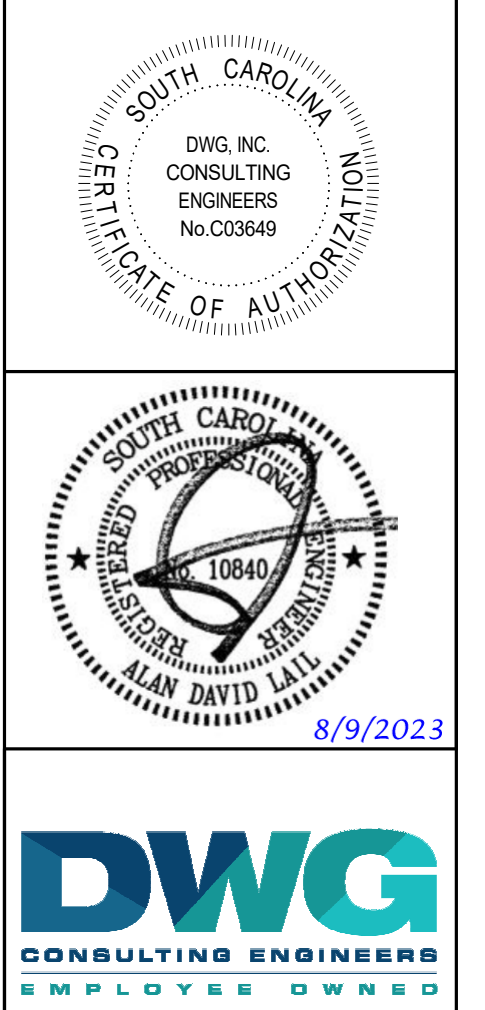
1. SEE DRAWING M102, BUILDING 200 NORTH CONWAY MECHANICAL PLAN FOR EQUIPMENT LOCATIONS.

KEYNOTES

- REMOVE EXISTING OUTDOOR UNITS, ASSOCIATED DISCONNECTS, AND LUMBER PLATFORM
- PROVIDE NEW TREATED LUMBER PLATFORM WITH APPROXIMATE DIMENSIONS SHOWN
- PROVIDE NEW AND LOCATE FAN COIL UNIT 1 FOOT FROM CEILING
- CUT OFF RUSTED PORTION OF METAL PLATFORM AND UTILIZE EXISTING LEGS. COAT METAL WITH GALVANIZED PAINT
- TYPICAL HORIZONTAL DISCHARGE RTU TO BE REPLACED. REMOVE EXISTING HORIZONTAL DISCHARGE DUCT AND UTILIZE OPENING IN ROOF AS NEEDED AND PROVIDE NEW 14" CURB
- WEST PLATFORM
- CENTER PLATFORM
- EAST PLATFORM
- REMOVE EF-9, ASSOCIATED DUCTWORK AND SUPPORT FRAME. REPAIR ROOF TO MATCH EXISTING
- REMOVE EF-13, ASSOCIATED DUCTWORK AND SUPPORT FRAME. REPAIR ROOF TO MATCH EXISTING

GENERAL NOTES

- PROVIDE SHOP DRAWINGS FOR PROPOSED NEW SUPPORT PLATFORM.
- PROVIDE NEW ELECTRICAL DISCONNECTS AND CONDUIT.
- PROVIDE IDENTIFYING LABELS FOR NEW EQUIPMENT.
- PROVIDE OUTDOOR UNITS WITH ECOAT / SEACOAT PROTECTION.
- FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- RECONNECT NEW UNITS TO EXISTING CONTROLS.



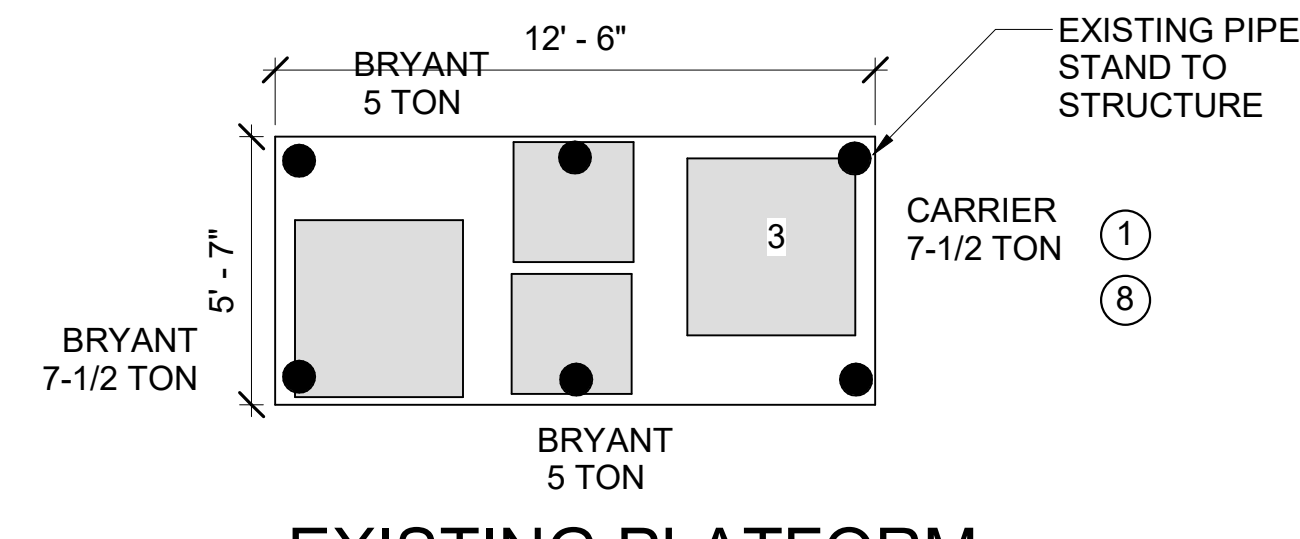
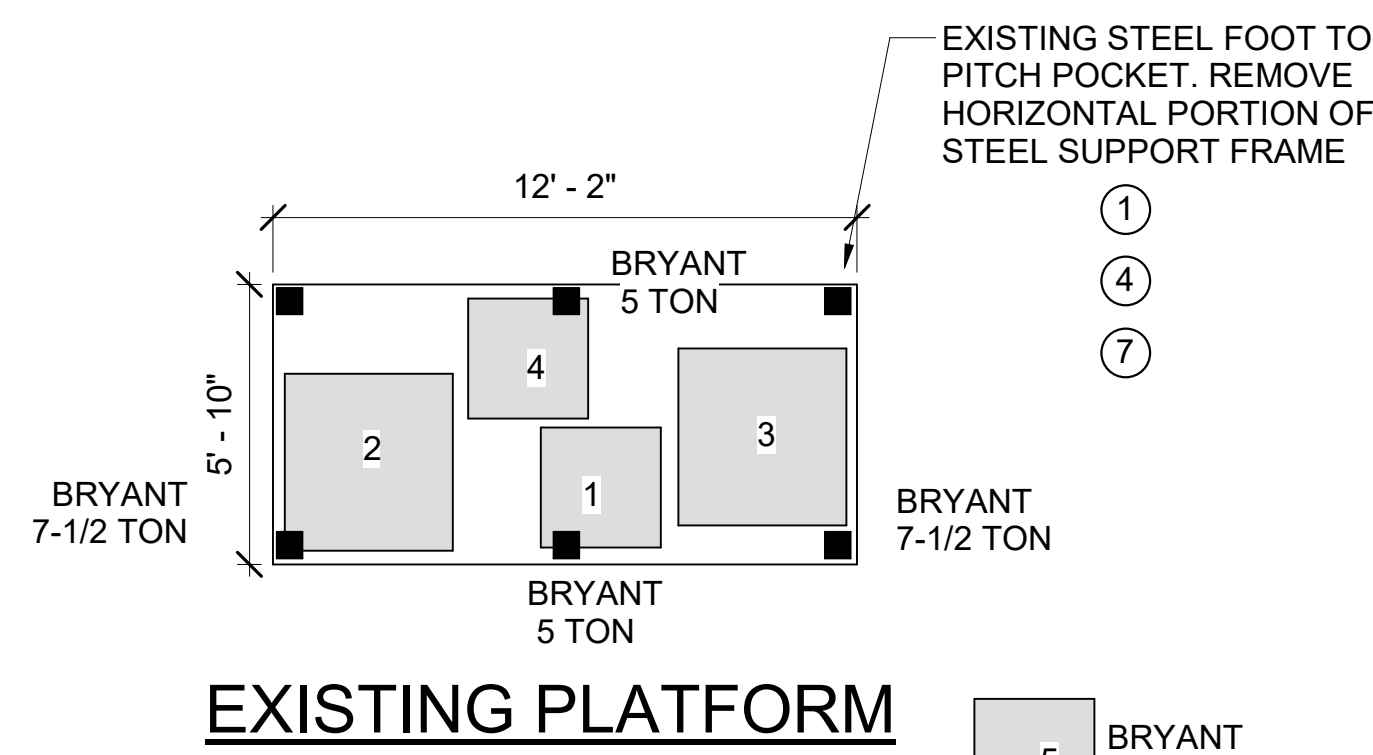
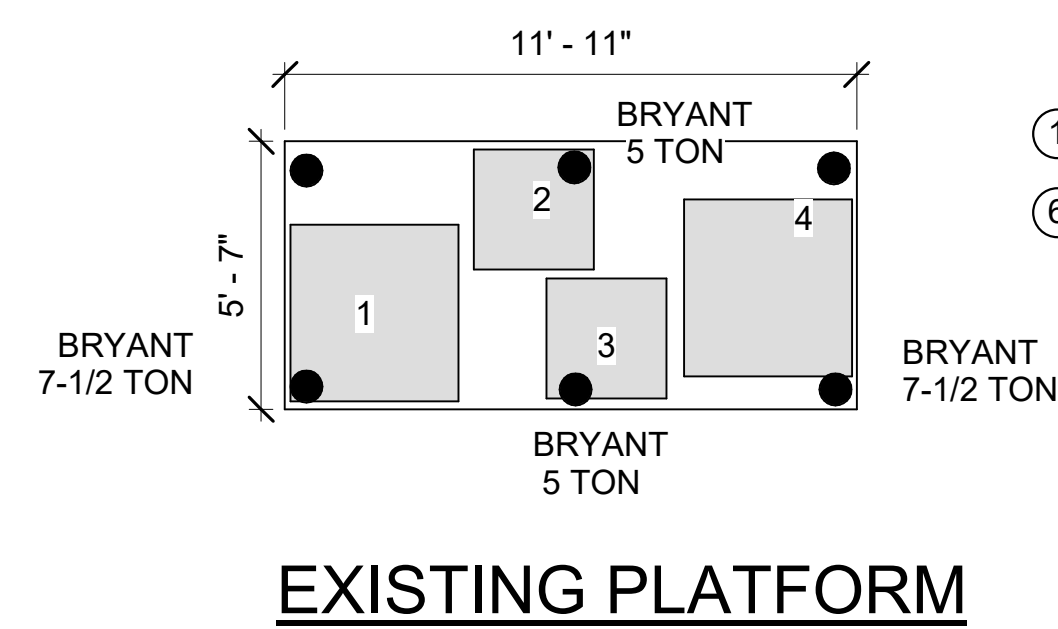
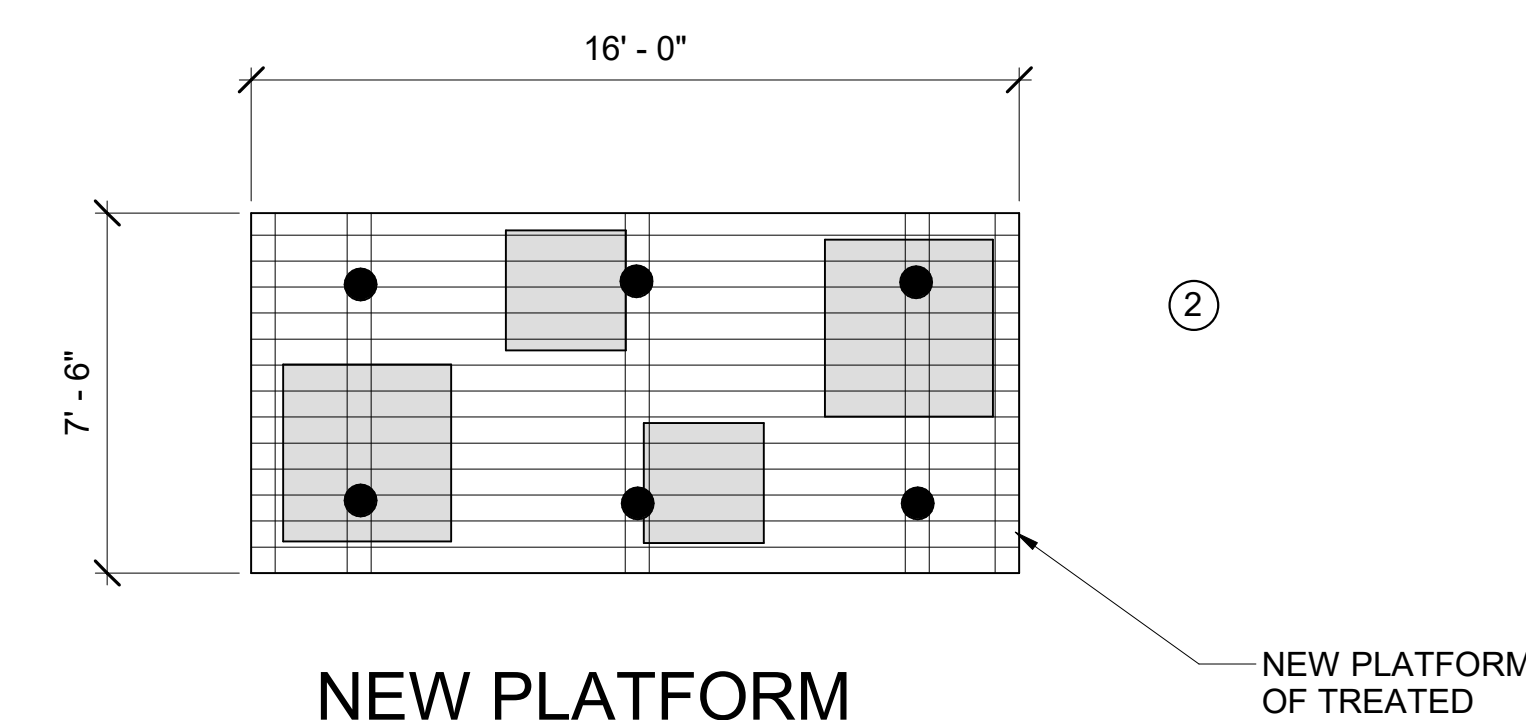
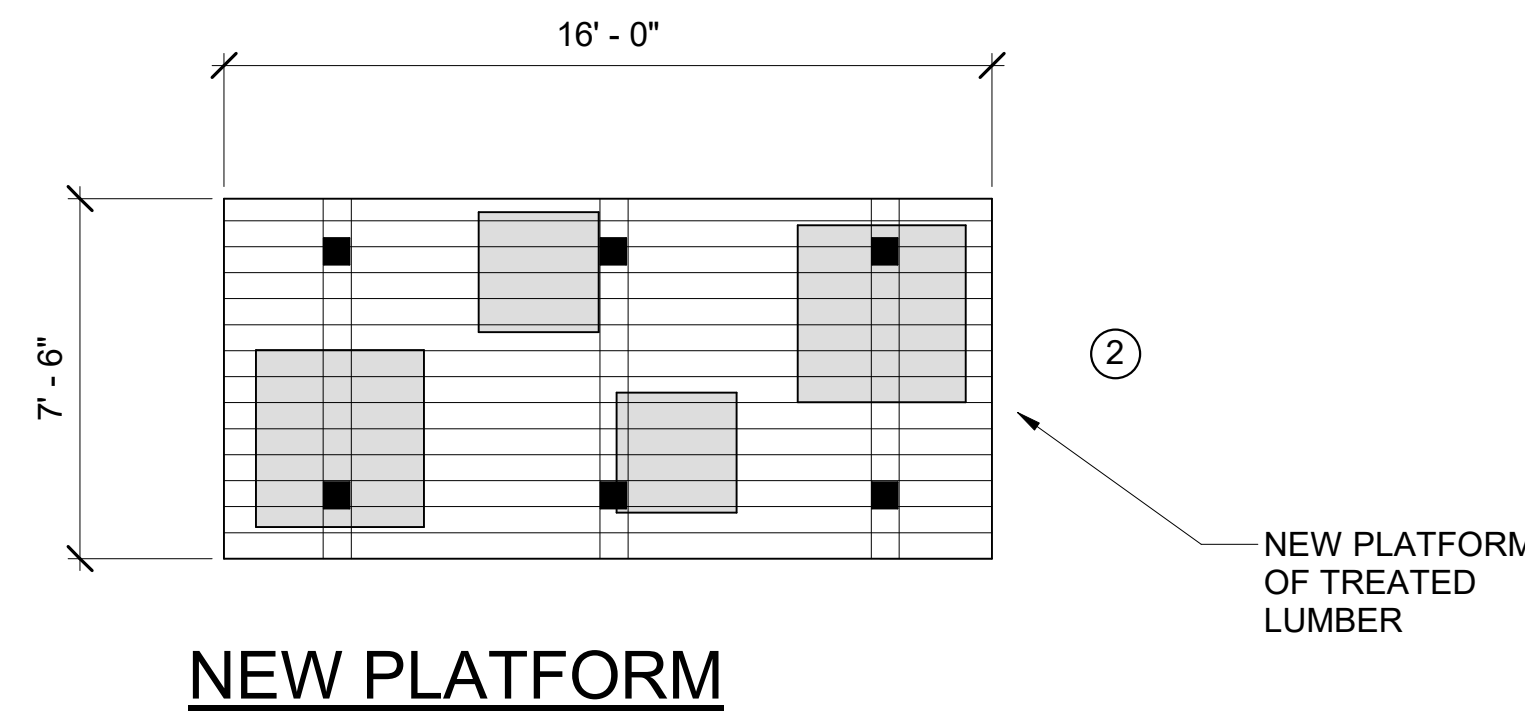
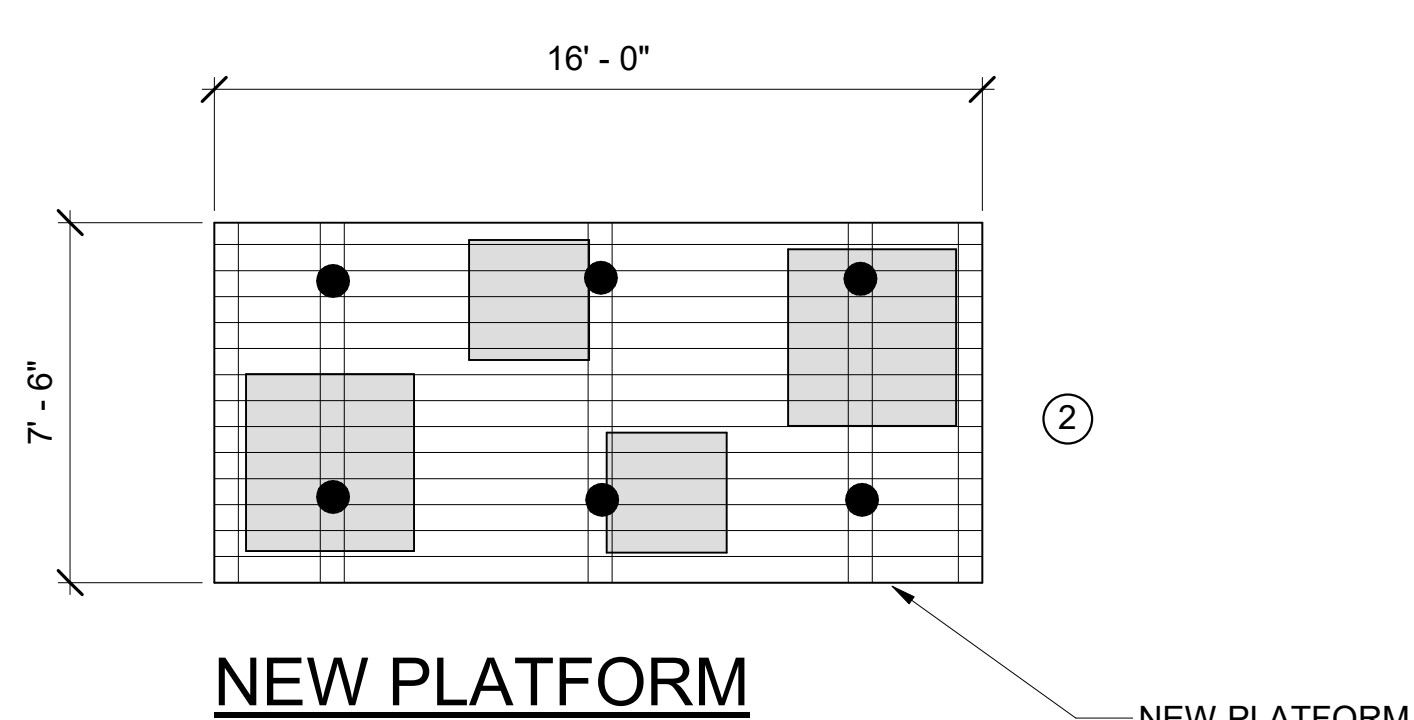
7 BUILDING 200 EXHAUST FAN EF-9
M102A SCALE: NTS

8 BUILDING 200 EXHAUST FAN EF-13
M102A SCALE: NTS

2 BUILDING 200 RTU - HORIZONTAL DISCHARGE
M102A SCALE: NTS

6 BUILDING 200 MINISPLIT FAN COIL-DLSS-2
M102A SCALE: NTS

9 MINISPLIT INSTALLATION DETAIL
M102A SCALE: NOT TO SCALE



5 BUILDING 200 WEST ROOF OUTDOOR UNITS
M102A SCALE: NTS

3 BUILDING 200 CENTER ROOF OUTDOOR UNITS
M102A SCALE: NTS

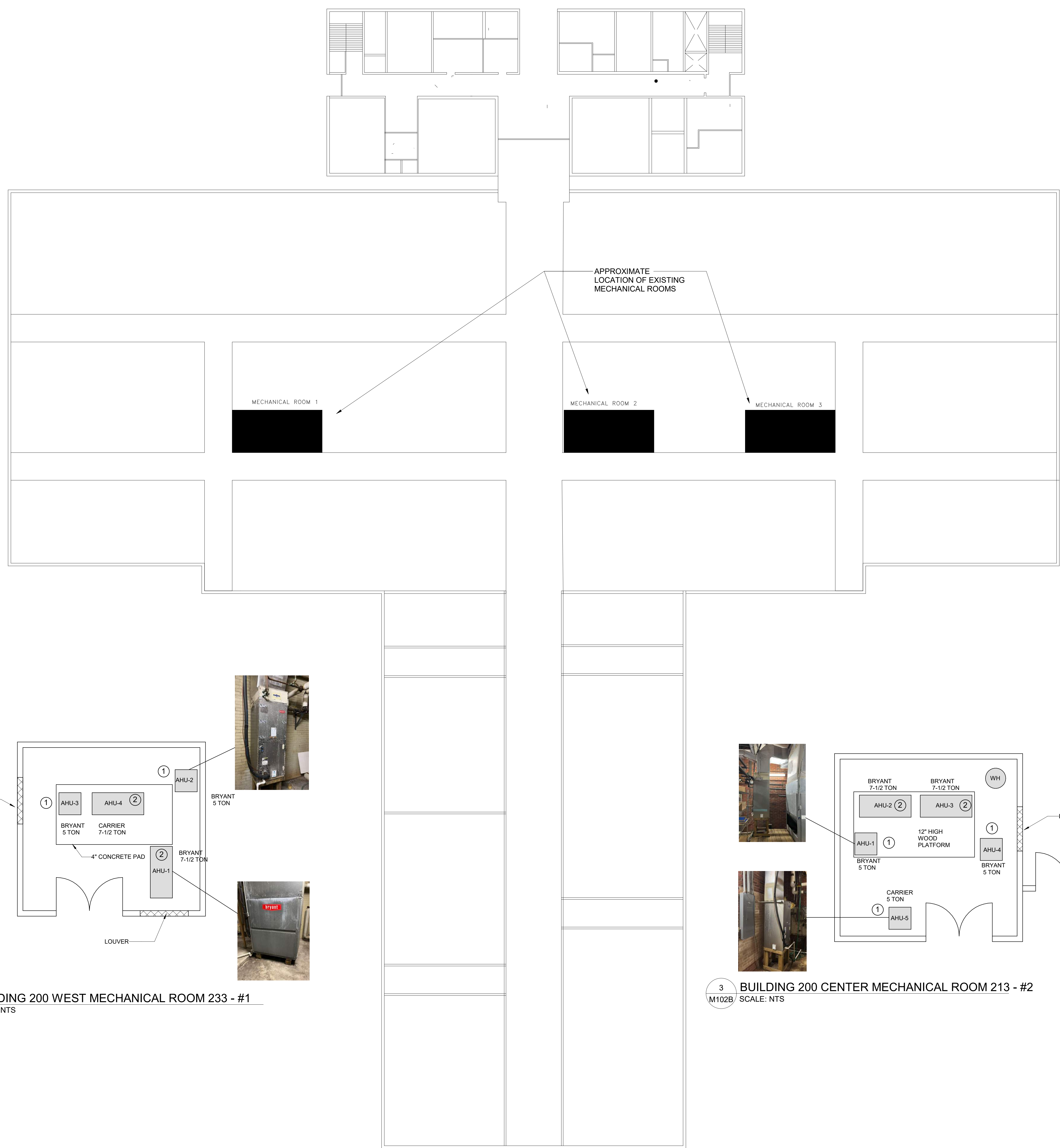
4 BUILDING 200 EAST ROOF OUTDOOR UNITS
M102A SCALE: NTS

UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
BUILDING 200 EQUIPMENT PHOTOS

#	Description	DATE
JOB No.	H59-6213-ML	
DATE:	08/9/23	
DRAWN BY:	ADL	
CHECKED BY:	WDB	
SHEET	NUMBER	

M102A

PLOT DATE: 08/23

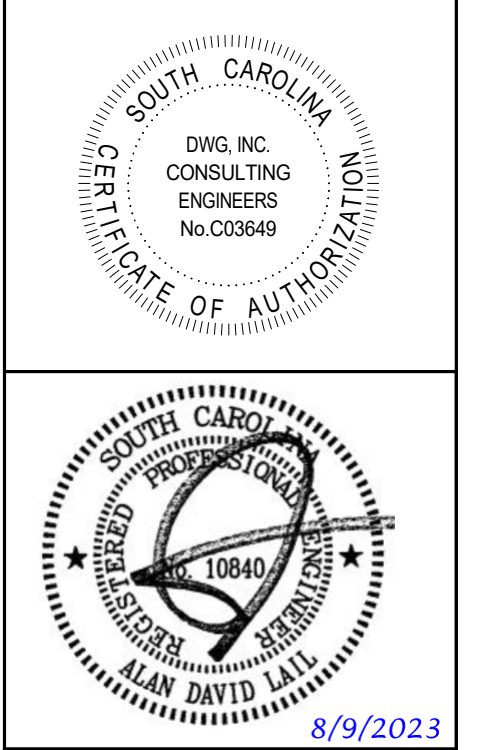


KEYNOTES

- ① MOUNT NEW 5 TON AIR HANDLING UNITS ON NEW GALVANIZED METAL FRAME MOUNTED ON NEW ELASTOMERIC PAD. FLUSH OUT EXISTING HOT WATER COIL AND RECONNECT EXISTING HOT WATER COIL AND DUCTWORK.
- ② MOUNT NEW 7.5 TON AIR HANDLING UNITS ON ELASTOMERIC PAD AND FLUSH OUT EXISTING HOT WATER COIL AND RECONNECT TO EXISTING DUCTWORK. PROVIDE NEW SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN.

GENERAL NOTES

- 1. PROVIDE NEW CONDENSATE PIPING TO EXISTING FLOOR DRAIN.
- 2. PROVIDE NEW ELECTRICAL DISCONNECTS AND CONDUIT.
- 3. RUN NEW REFRIGERANT PIPING TO OUTDOOR UNITS ON THE ROOF.
- 4. PROVIDE IDENTIFYING LABELS FOR NEW EQUIPMENT.
- 5. FLUSH OUT EXISTING HOT WATER COILS BEFORE RECONNECTING.
- 6. PROVIDE NEW GALVANIZED SHEET METAL ENCLOSURE FOR 7.5 AHUS.
- 7. FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- 8. RECONNECT NEW UNITS TO EXISTING CONTROLS.

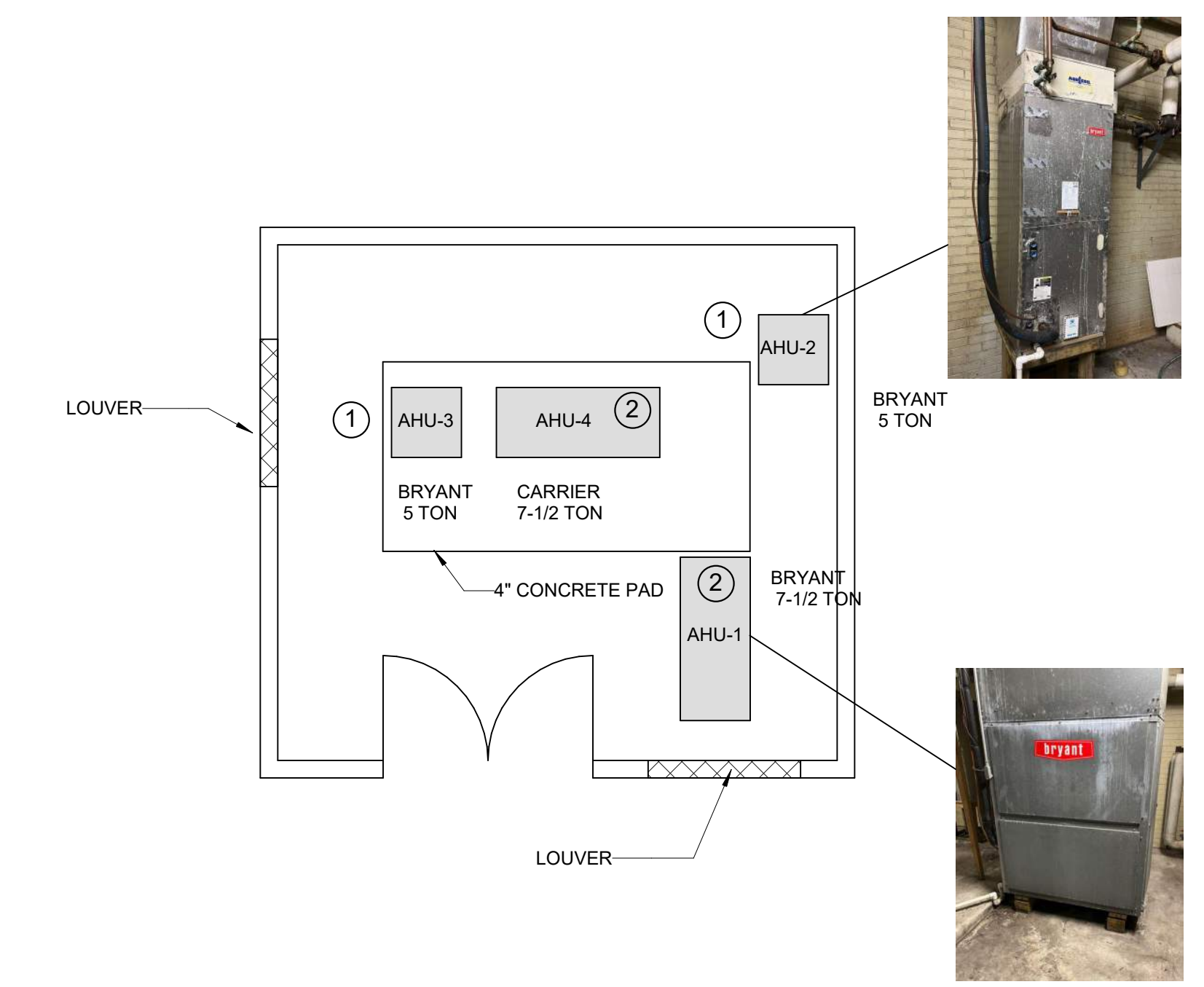


UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 BUILDING 200 MECHANICAL ROOMS

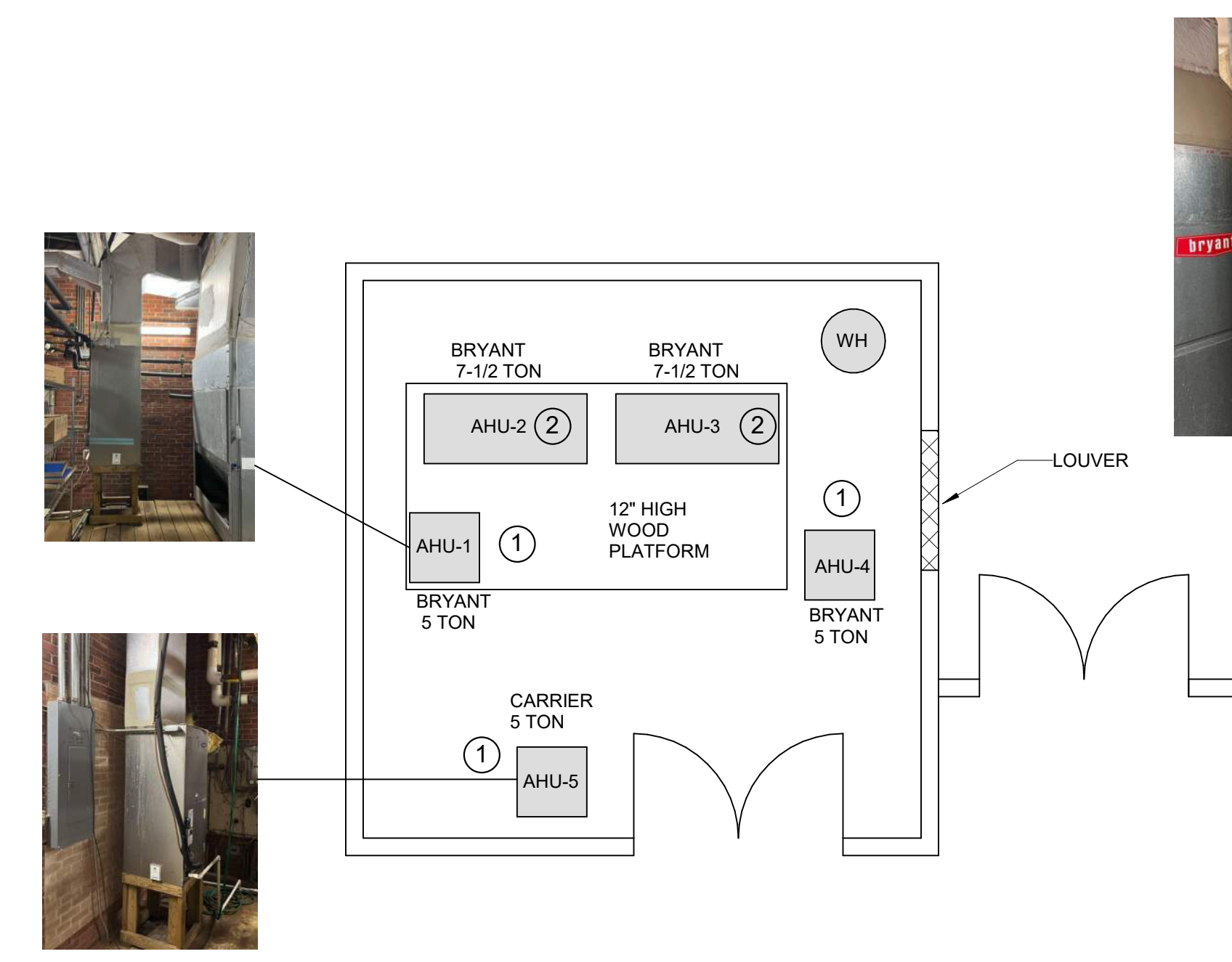
#	Description	DATE

JOB No. H59-6213-ML
 DATE: 08/9/23
 DRAWN BY: ADL
 CHECKED BY: WDB
 SHEET NUMBER

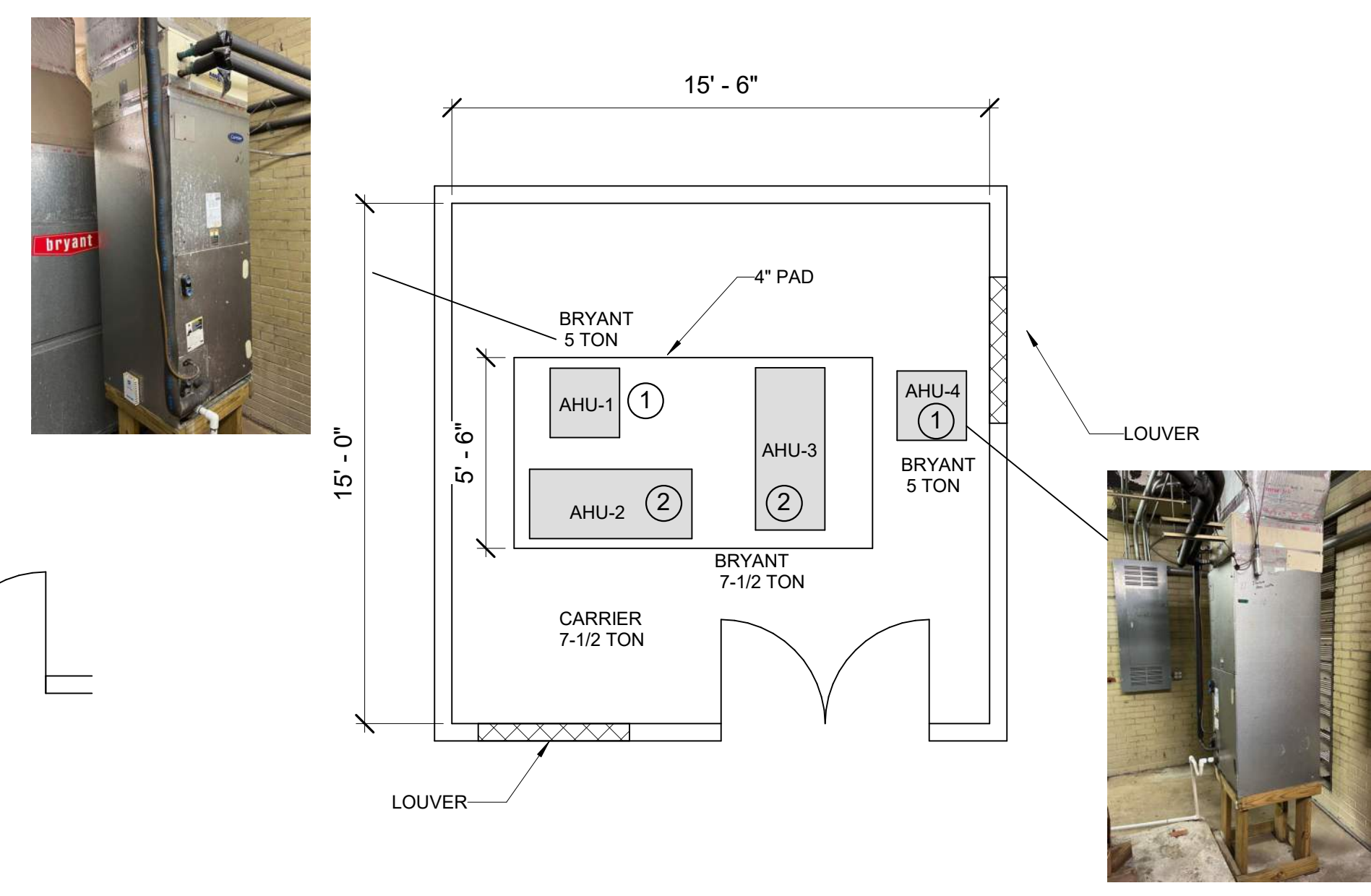
M102B



① BUILDING 200 WEST MECHANICAL ROOM 233 - #1
 M102B SCALE: NTS



③ BUILDING 200 CENTER MECHANICAL ROOM 213 - #2
 M102B SCALE: NTS



② BUILDING 200 EAST MECHANICAL ROOM - #3
 M102B SCALE: NTS

④ B200 - 1ST FLOOR
 M102B NOT TO SCALE



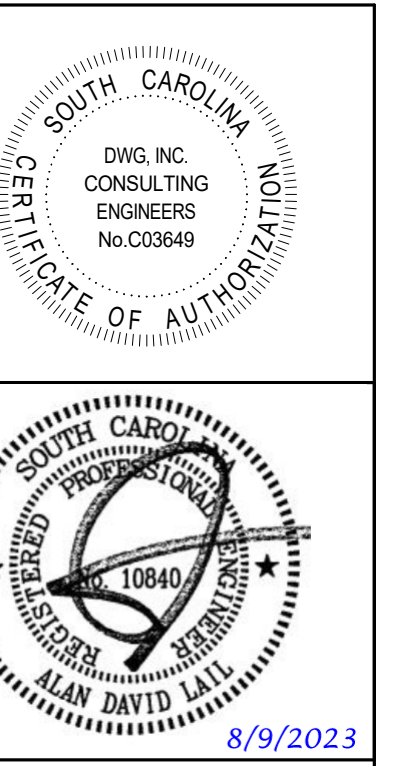
1 BUILDING 500 CONWAY MECHANICAL PLAN
M103 NOT TO SCALE

KEY NOTES

- ① REMOVE EXISTING SPLIT SYSTEM UNITS AND PROVIDE NEW AIR HANDLING UNIT LOCATED ABOVE CEILING IN THE VICINITY OF THE OUTDOOR UNIT
- ② ALTERNATE BID ITEM - REMOVE EXISTING ROOFTOP UNITS AND PROVIDE NEW WITH 14 INCH CURB
- ③ ALTERNATE BID ITEM - REMOVE EXISTING EXHAUST FANS AND PROVIDE NEW WITH 14 INCH CURB
- ④ EXISTING EQUIPMENT TO REMAIN

GENERAL NOTES

- 1. PROVIDE NEW ELECTRICAL DISCONNECT FOR ALL UNITS.
- 2. PROVIDE NEW LABEL TO IDENTIFY UNIT.
- 3. PROVIDE ROOFTOP UNITS AND OUTDOOR UNITS WITH ECOAT / SEACOAST PROTECTION.
- 4. FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- 5. RECONNECT NEW UNITS TO EXISTING CONTROLS.
- 6. RECONNECT GAS PIPING TO GAS FIRED UNITS IN ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE.



SPLIT SYSTEM HEAT PUMP SCHEDULE - CW BUILDING 500 - BASE BID												
UNIT	EQUIPMENT TYPE	LOCATION	MANUFACTURER	MODEL		COOLING CAPACITY (BTUH)	VOLTAGE		ELECT HEAT	MCA / MOCP		KEY NOTES
				INDOOR UNIT	OUTDOOR UNIT		INDOOR UNIT	OUTDOOR UNIT		INDOOR UNIT	OUTDOOR UNIT	
AH / HP-1	SPLIT SYSTEM	SALON / ROOF	TRANE	TEM680C60H51	4TWA4060A3	60,000	208 V / 1 PHASE	208 V / 3 PHASE	7.2 kW	52 / 60	21 / 35	①

ROOFTOP UNIT SCHEDULE - CW BUILDING 600 - ALTERNATE BID ITEM									
UNIT	EQUIPMENT TYPE	LOCATION	MANUFACTURER	MODEL	COOLING CAPACITY (BTUH)	HEATING (BTUH) INPUT / OUTPUT	VOLTAGE	MCA / MOCP	KEY NOTES
RTU-2	PACKAGED AC W/ GAS HEAT	ROOF	TRANE	YSJ240A3SOL	242,000	250,000 / 203,000	208 V / 3 PHASE	108 / 125	②
RTU-3	PACKAGED AC W/ GAS HEAT	ROOF	TRANE	YSJ210A3SOL	210,000	250,000 / 203,000	208 V / 3 PHASE	93 / 110	②

RECONNECT GAS PIPING TO NEW UNITS IN ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE

EXHAUST FAN SCHEDULE - CW BUILDING 600 - ALTERNATE BID ITEM										
UNIT	EQUIPMENT TYPE	LOCATION	EXISTING MANUFACTURER	EXISTING MODEL	NEW MODEL	AIR FLOW (CFM)	STATIC PRESSURE (IN WG)	HP	VOLTAGE	KEY NOTES
EF-1	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	G-95-DEGX-OD	GREENHECK G-095-VG	300	0.5	1/10	120 / 1 PHASE	③
EF-2	ROOFTOP EXHAUST FAN	ROOF	FAN TECH	5ADE121A	GREENHECK G-095-VG	340	0.5	1/10	120 / 1 PHASE	③
EF-3	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	CUBE-14-7	CAPTIVEAIRE DU180HFA	2259	1.5	1.5	208 / 3 PHASE	③
EF-4	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	CUBE-FP-36-20	CAPTIVEAIRE DU300HFA	7028	1.5	5	208 / 3 PHASE	③
EF-5	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	CUBE-18-7	CAPTIVEAIRE DU180HFA	2496	1.5	2	208 / 3 PHASE	③
EF-6	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	CUBE-18-7	CAPTIVEAIRE DU180HFA	2496	1.5	2	208 / 3 PHASE	③
EF-7	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	G-95-DEGX-OD	GREENHECK G-095-VG	300	0.5	1/10	120 / 1 PHASE	③



2 BUILDING 600 CONWAY MECHANICAL PLAN
M103 NOT TO SCALE

UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 B500 & B600 CONWAY MECHANICAL PLAN

#	Description	DATE
JOB No.	HS9-6213-ML	
DATE:	08/9/23	
DRAWN BY:	ADL	
CHECKED BY:	WDB	
SHEET	NUMBER	

M103



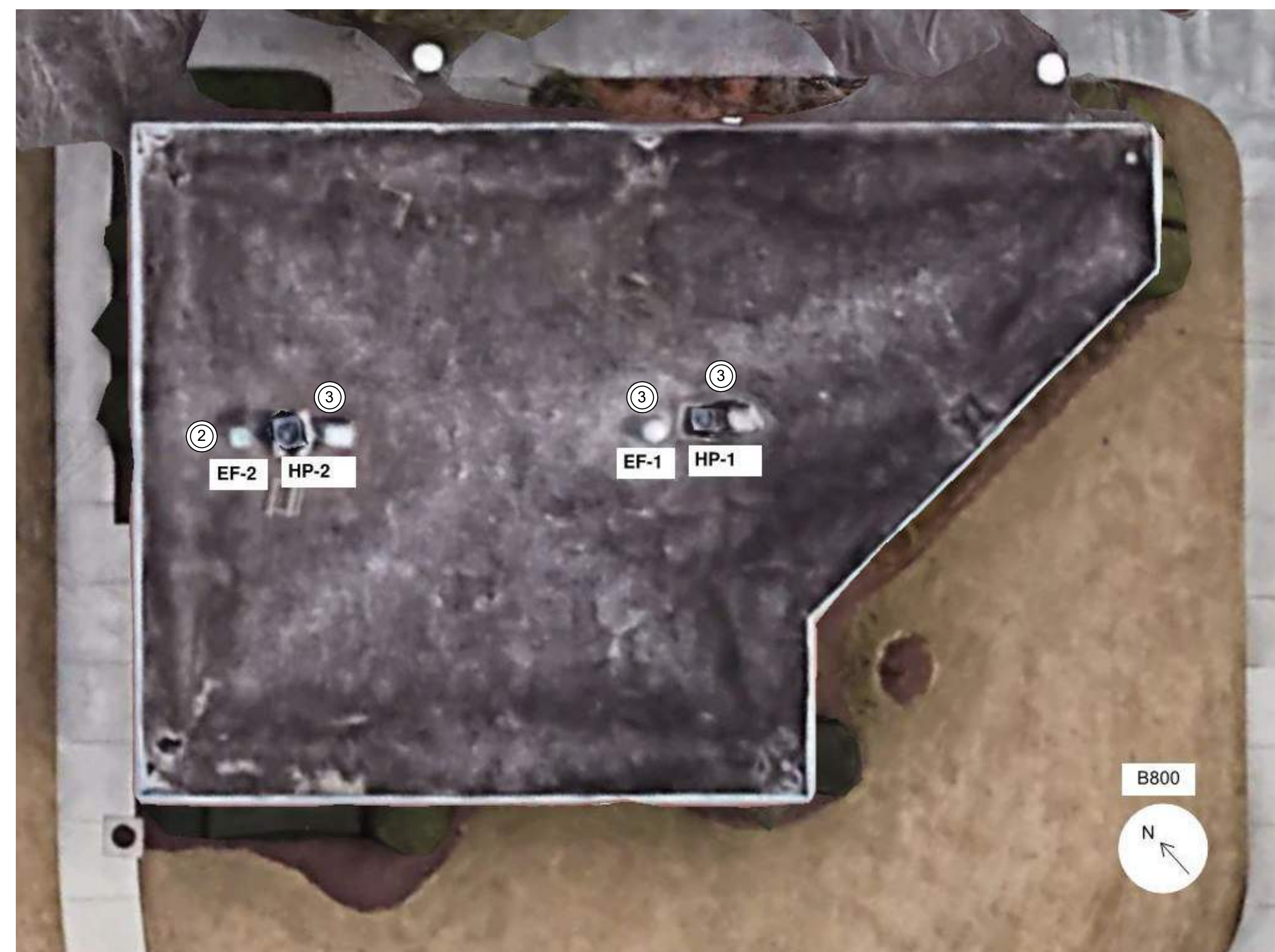
1 BUILDING 700 CONWAY MECHANICAL PLAN
M104 NOT TO SCALE



5 BUILDING 700 CONWAY - RTU-1
M104 NOT TO SCALE

MECHANICAL EQUIPMENT SCHEDULE - CW BUILDING 700 - BASE BID											
UNIT	EQUIPMENT TYPE	LOCATION	EXISTING MANUFACTURER	EXISTING MODEL	NEW MANUFACTURER	NEW MODEL NUMBER	COOLING CAPACITY (BTUH)	ELECTRIC HEAT	VOLTAGE	MCA / MOCP	NOTES
RTU-1	PACKAGED HP	ROOF	PAYNE	PA1ZNA036000BAA	TRANE	4WCC4036	36,000	3.76 KW	208 V / 1 PHASE	25 / 30	①

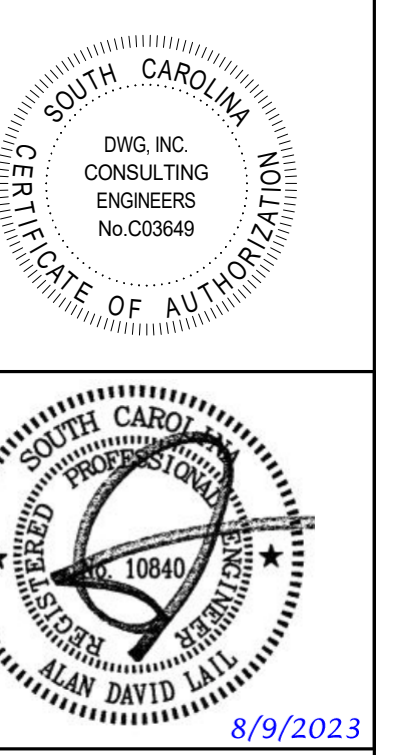
MECHANICAL EQUIPMENT SCHEDULE - CW BUILDING 800 - BASE BID								
UNIT	EQUIPMENT TYPE	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	STATIC PRESSURE (IN WC)	VOLTAGE	MOTOR
EF-2	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	G-090-VG	400	0.375	120 / 1 PH	1/10 HP



2 BUILDING 800 CONWAY MECHANICAL PLAN
M104 NOT TO SCALE

KEYNOTES

- ① REMOVE EXISTING ROOFTOP UNIT AND EXISTING HORIZONTAL DISCHARGE DUCT AND UTILIZE OPENING FOR NEW VERTICAL DISCHARGE DUCT. WIDEN OPENING IN ROOF AS NEEDED AND PROVIDE NEW 14" CURB
- ② REMOVE EXISTING EXHAUST FANS AND PROVIDE NEW WITH 14 INCH CURB
- ③ EXISTING EQUIPMENT TO REMAIN



UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 B700 & B800 CONWAY MECHANICAL PLAN

GENERAL NOTES

- 1. PROVIDE NEW ELECTRICAL DISCONNECT FOR ALL UNITS.
- 2. PROVIDE NEW LABEL TO IDENTIFY UNIT.
- 3. PROVIDE NEW OUTDOOR UNIT WITH ECOAT / SEACOST PROTECTION.
- 4. FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- 5. RECONNECT NEW UNITS TO EXISTING CONTROLS.

#	Description	DATE
JOB No.	H59-6213-ML	
DATE:	08/9/23	
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CHECKED BY:	WDB	
SHEET	NUMBER	

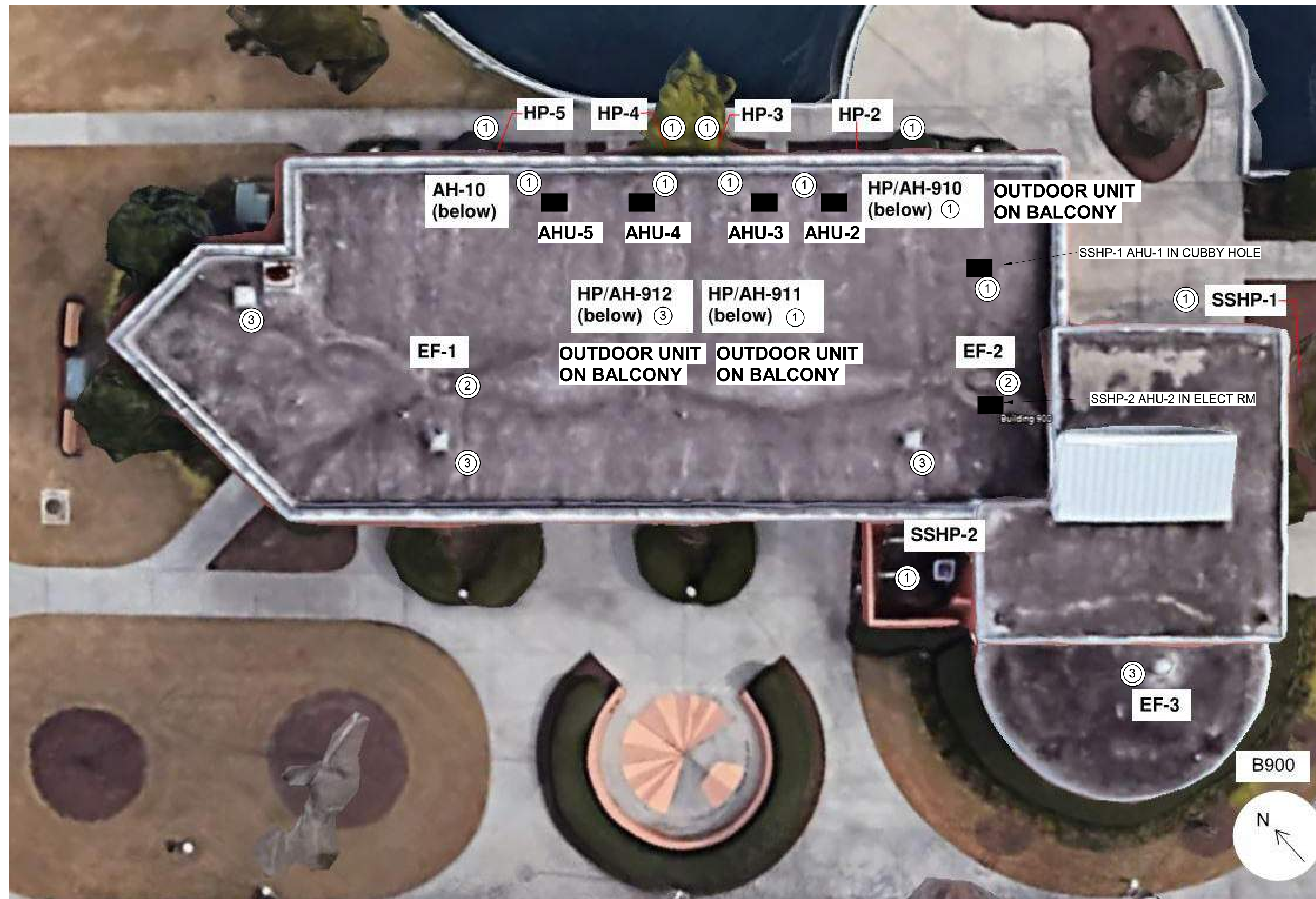
M104



3 BUILDING 900 BALCONY OUTDOOR UNITS
SCALE: NTS



4 BUILDING 900 TYPICAL INDOOR UNIT
SCALE: NTS



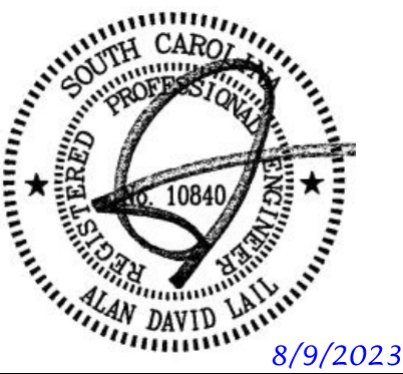
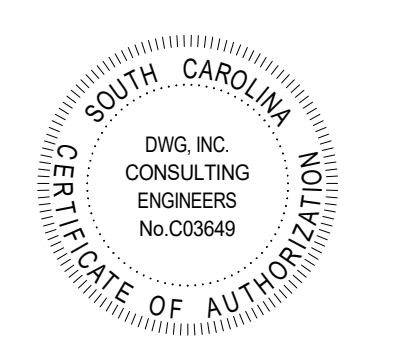
1 BUILDING 900 CONWAY MECHANICAL PLAN
NOT TO SCALE

KEYNOTES

- 1 REMOVE EXISTING SPLIT SYSTEM UNITS AND PROVIDE NEW. RECONNECT TO EXISTING DUCTWORK
- 2 REMOVE EXISTING EXHAUST FANS AND PROVIDE NEW WITH 14 INCH CURB
- 3 EXISTING EQUIPMENT TO REMAIN

GENERAL NOTES

- 1. PROVIDE NEW ELECTRICAL DISCONNECT FOR ALL UNITS.
- 2. PROVIDE NEW REFRIGERANT PIPING.
- 3. PROVIDE NEW LABEL TO IDENTIFY UNIT.
- 4. FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- 5. RECONNECT NEW UNITS TO EXISTING CONTROLS.



DWG
CONSULTING ENGINEERS
EMPLOYEE OWNED

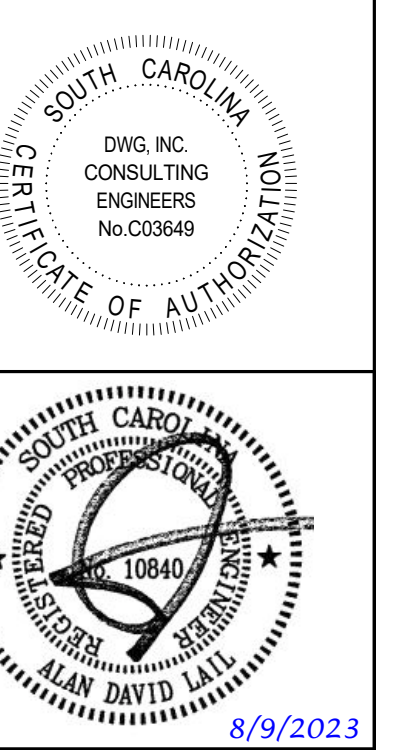
UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
2050 HWY 501 E
CONWAY, SC 29526
B900 CONWAY MECHANICAL PLAN

SPLIT SYSTEM UNIT SCHEDULE - CW BUILDING 900 - BASE BID														
UNIT	EQUIPMENT TYPE	EXISTING INDOOR UNIT	EXISTING OUTDOOR UNIT	NEW MANUFACTURER	NEW MODEL		COOLING CAPACITY (BTUH)	AIRFLOW (CFM)	ELECTRIC HEAT	VOLTAGE		MCA / MOCP		KEY NOTE
					INDOOR UNIT	OUTDOOR UNIT				INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	
SS AH / HP-1	SPLIT SYSTEM	ICP FCP4200D2	ICP CHC042HAA	TRANE	TEM60C42H41	4TWA4042	42,000	1400	5.76 KW	208 V / 1 PHASE	208 V / 3 PHASE	40 / 40	18 / 30	1
SS AH / HP-2	SPLIT SYSTEM	ICP FCP4200D	ICP CHC042HAA	TRANE	TEM60C42H41	4TWA4042	42,000	1400	5.76 KW	208 V / 1 PHASE	208 V / 3 PHASE	40 / 40	18 / 30	1
HP / AH-910	SPLIT SYSTEM	ICP NFPC4200D2	ICP NHP036AKB1	TRANE	TEM60C36H31	4TWR4036	36,000	1200	3.6 KW	208 V / 1 PHASE	208 V / 1 PHASE	27 / 30	18 / 30	1
HP / AH-911	SPLIT SYSTEM	PAYNE PF1MN024	PAYNE PH10JA018-E	TRANE	TEM60C24H21	4TWR4018	18,000	600	2.88 KW	208 V / 1 PHASE	208 V / 1 PHASE	20 / 20	15 / 25	1
AH / HP-2	SPLIT SYSTEM	PAYNE PF1MN024	PAYNE PH10JA024-C	TRANE	TEM60C24H21	4TWR4024	24,000	800	2.88 KW	208 V / 1 PHASE	208 V / 1 PHASE	20 / 20	15 / 25	1
AH / HP-3	SPLIT SYSTEM	PAYNE PF1MN024	PAYNE PH10JA018-E	TRANE	TEM60C24H21	4TWR4018	18,000	600	2.88 KW	208 V / 1 PHASE	208 V / 1 PHASE	20 / 20	15 / 25	1
AH / HP-4	SPLIT SYSTEM	PAYNE PF1MN024	PAYNE PH10JA018-E	TRANE	TEM60C24H21	4TWR4018	18,000	600	2.88 KW	208 V / 1 PHASE	208 V / 1 PHASE	20 / 20	15 / 25	1
AH / HP-5	SPLIT SYSTEM	PAYNE TBD	PAYNE PH10JA030	TRANE	TEM60C30H21	4TWR4030	30,000	1000	3.6 KW	208 V / 1 PHASE	208 V / 1 PHASE	27 / 30	15 / 25	1

EXHAUST FAN SCHEDULE - CW BUILDING 900 - BASE BID								
UNIT	EQUIPMENT TYPE	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	STATIC PRESSURE	VOLTAGE	KEY NOTE
EF-1	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	G-060	75	0.375	120 / 1 PH	2
EF-2	ROOFTOP EXHAUST FAN	ROOF	GREENHECK	G-060	75	0.375	120 / 1 PH	2

KEYNOTES

- ① REMOVE EXISTING AIR HANDLING UNIT ON PLATFORM. PROVIDE NEW AND RECONNECT TO EXISTING DUCTWORK.
- ② REMOVE EXISTING HEAT PUMP UNIT AND PROVIDE NEW ALONG WITH NEW CONCRETE PAD.
- ③ EXISTING EQUIPMENT TO REMAIN.



GENERAL NOTES

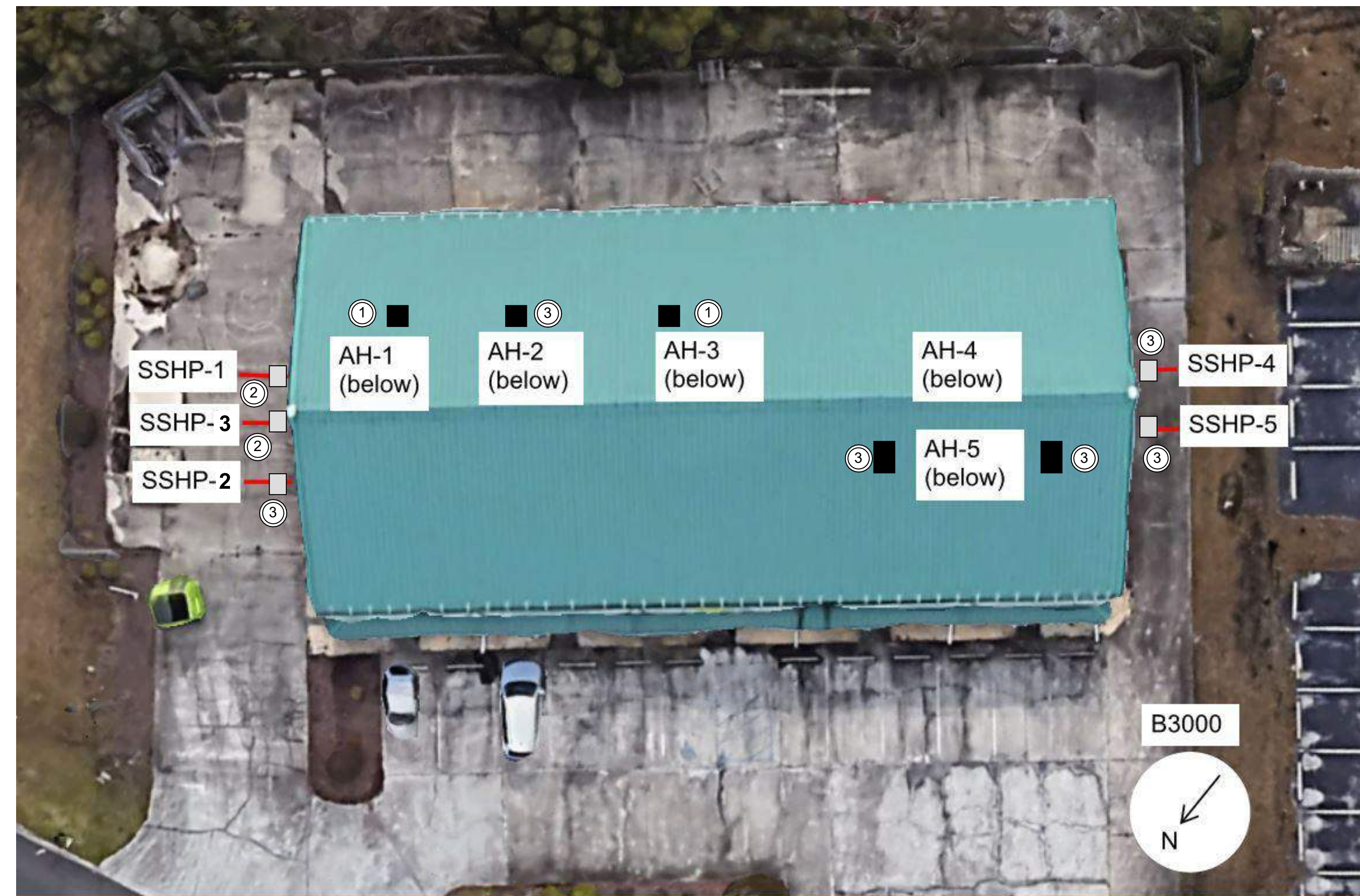
- 1. PROVIDE NEW CONDENSATE PIPING TO EXISTING DRAIN.
- 2. PROVIDE NEW ELECTRICAL DISCONNECTS AND CONDUIT.
- 3. RUN NEW REFRIGERANT PIPING TO OUTDOOR UNITS.
- 4. PROVIDE IDENTIFYING LABELS FOR NEW EQUIPMENT.
- 5. FIELD VERIFY EQUIPMENT SIZES, ELECTRICAL REQUIREMENTS, AND INSTALLATION CONDITIONS PRIOR TO ORDERING EQUIPMENT.
- 6. RECONNECT NEW UNITS TO EXISTING CONTROLS.



3 BUILDING 3000 TYPICAL OUTDOOR UNIT
M107 SCALE: NTS



4 BUILDING 3000 AH-1
M107 SCALE: NTS



1 BUILDING 3000 CONWAY MECHANICAL PLAN
M107 NOT TO SCALE



5 BUILDING 3000 AH-3
M107 SCALE: NTS

SPLIT SYSTEM SCHEDULE - CW BUILDING 3000 - BASE BID

UNIT	EQUIPMENT TYPE	OUTDOOR UNIT LOCATION	INDOOR UNIT LOCATION	EXISTING MANUFACTURER	EXISTING MODEL		NEW MANUFACTURER	NEW MODEL		COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	VOLTAGE	AUX HEAT	INDOOR	OUTDOOR
					INDOOR UNIT	OUTDOOR UNIT		INDOOR UNIT	OUTDOOR UNIT						
SS HP/ AH-1	SPLIT SYSTEM	EXTERIOR	INTERIOR PLATFORM	HAIER	HB4800VA1M25	HR48C1VAR	TRANE	TEM6B0C48H41	4TWR4048N1	48,000	45,800	208 V / 1 PHASE	5.76 KW	43 / 45	26 / 40
SS HP/ AH-3	SPLIT SYSTEM	EXTERIOR	INTERIOR PLATFORM	HAIER	HB4800VA1M25	HR48C1VAR	TRANE	TEM6B0C48H41	4TWR4048N1	48,000	45,800	208 V / 1 PHASE	5.76 KW	43 / 45	26 / 40

UPGRADE AND REPLACE MULTIPLE HVAC UNITS - CONWAY CAMPUS
 2050 HWY 501 E
 CONWAY, SC 29526
 B3000 CONWAY MECHANICAL PLAN

#	Description	DATE

JOB No. H59-6213-ML
 DATE: 08/9/23
 DRAWN BY: ADL
 CHECKED BY: WDB
 SHEET NUMBER

M107