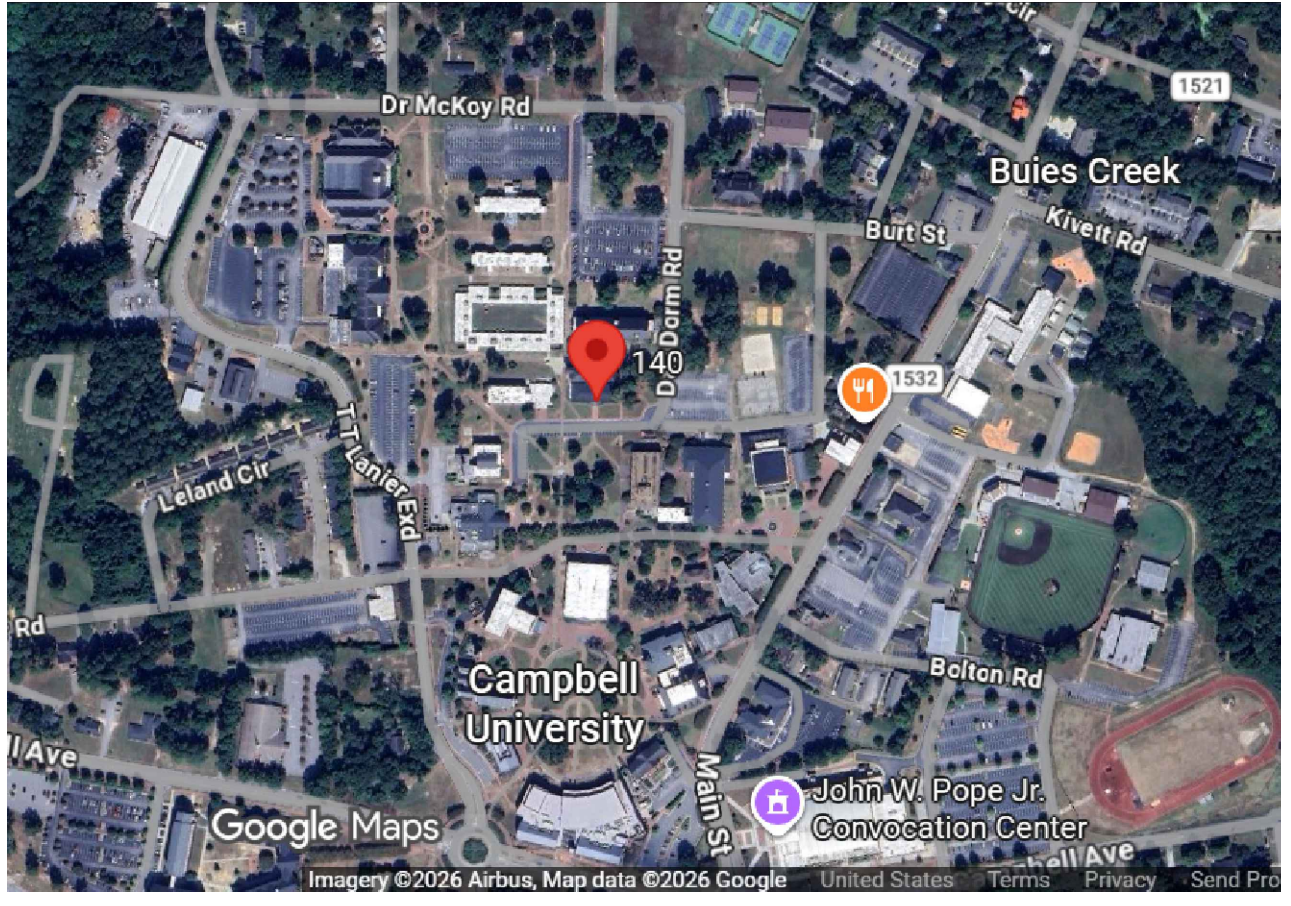


VICINITY MAP

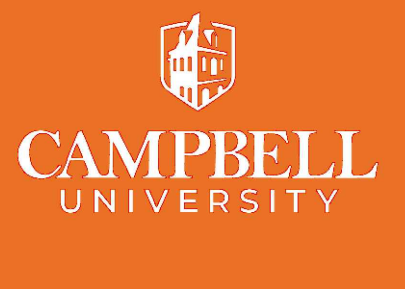


CONTACTS

OWNER:	MEP:
CAMPBELL UNIVERSITY 225 DR MCKOY RD LILLINGTON, NC 27546	DEWBERRY ENGINEERS, INC. 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607
CONTACT: ROBBIE ADAMS P: 910.890.9995 E-MAIL: RADAMS@CAMPBELL.EDU	CONTACT: WESTON HOCKADAY, PE P: 919.425.7051 E-MAIL: WHOCKADAY@dewberry.com



Dewberry Engineers Inc.
2610 Wycliff Road
Suite 410
Raleigh, NC 27607-3073
919.851.9939
NC License No. F-0929



CAMPBELL UNIVERSITY

POWELL HALL
HVAC AND PLUMBING RENOVATION

84 DAY DORM ROAD BUIES CREEK, NC 27506

PROJECT SCOPE

PROVIDE FULLY FUNCTIONAL HVAC, PLUMBING, AND ELECTRICAL WORK TO SUPPORT HVAC AND PLUMBING INFRASTRUCTURE UPGRADES FOR POWELL HALL.

DEMOLISH EXISTING STEAM RADIATORS, STEAM TO DHW HEAT EXCHANGER, STEAM PIPING, CONDENSATE PIPING, AND CONDENSATE PUMPING TO FACILITATE NEW HVAC AND PLUMBING INFRASTRUCTURE INSTALLATION.

DEMOLISH EXISTING AIR CONDITIONING UNIT SPLIT SYSTEMS, LINESETS, AND DISTRIBUTION DUCTWORK.

DEMOLISH EXISTING MAIN DISTRIBUTION PANEL (MDP) AND PREPARE CONNECTIONS TO DISTRIBUTION POWER FOR RECONNECTION TO NEW MDP.

DEMOLISH TRASH CHUTE THROUGH MECHANICAL ROOMS FOR NEW DUCT RISER.

COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF DUCTWORK, PIPING, AND CONDUIT TO BE CONCEALED WITHIN CEILING, CHASE, OR PAINTED.

COORDINATE WITH GENERAL CONTRACTOR FOR NEW PENETRATIONS IN INTERIOR, EXTERIOR WALL, AND FLOOR PENETRATIONS FOR CONDUIT, DUCTWORK, PIPING, AND PTAC WALL SLEEVE INSTALLATION.

COORDINATE WITH ROOF CONTRACTOR (SEPARATE VIA CAMPBELL) TO PROVIDE CURB ADAPTORS OR NEW ROOF CURB INSTALLATION FOR EXHAUST GRAVITY VENTILATORS.

COORDINATE WITH LIGHTING ELECTRICAL CONTRACTOR (SEPARATE VIA CAMPBELL) TO AVOID CONFLICTS WITH CIRCUITING, CONDUIT, AND CEILING SPACE.

COORDINATE WITH FIRE ALARM CONTRACTOR (SEPARATE VIA CAMPBELL) TO AVOID CONFLICTS WITH CIRCUITING, CONDUIT, AND CEILING SPACE.

COORDINATE WITH NATURAL GAS UTILITY PROVIDER TO EXTEND GAS PIPING FROM METER TO NEW PLUMBING EQUIPMENT.

PROVIDE NEW DEDICATED OUTDOOR AIR SYSTEM WITH NEW DUCTWORK THROUGH EACH FLOOR AND AIR DISTRIBUTION TO SERVE SPACES.

COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE DUCT CHASE FOR DOAS RISER. PROVIDE FIRE DAMPER AT EACH FLOOR PENETRATION FOR DUCT RISER SERVING MULTIPLE FLOORS. PROVIDE 18x18 HINGED ACCESS DOOR IN WALL AND 12x12 HINGED ACCESS DOOR IN DUCT FOR FIRE DAMPER ACCESS.

PROVIDE NEW PACKAGED TERMINAL AIR CONDITIONER (PTAC) HEAT PUMPS IN LOCATIONS SHOWN WITH WIRED WALL MOUNTED THERMOSTAT WITH OPTION FOR WIRELESS REMOTE MONITORING. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF WALL SLEEVE FOR FLUSH EXTERIOR ARCHITECTURAL FINISH AND LINTEL INSTALL.

PROVIDE NEW BATHROOM EXHAUST FANS WITH DUCTWORK. COORDINATE WITH GENERAL CONTRACTOR TO REMOVE TRANSOM ABOVE TOILET ROOM DOOR.

PROVIDE NEW BUILDING SYSTEM NETWORK CONTROLLER FOR MONITORING DOMESTIC WATER HEATER SYSTEM PACKAGED BACNET CONTROLLER, DOAS PACKAGED BACNET CONTROLLER, AND HEAT PUMPS. PROVIDE GRAPHICS, TRENDING, SETPOINT ADJUSTMENT, SCHEDULING, AND ALARMING INTO TRidium ENTERPRISE SYSTEM FOR REMOTE ACCESS. PROVIDE NETWORK CONTROLLER FOR INTEGRATION OF NEW BACNET COMMUNICATION WIRING THROUGHOUT BUILDING. COORDINATE WITH ELECTRICIAN TO PROVIDE POWER TO BUILDING SYSTEM NETWORK CONTROL PANEL. PROVIDE CAT 6 NETWORK CABLE FOR DATA DROP FROM BUILDING SERVER TO BUILDING SYSTEM NETWORK CONTROLLER WITH FINAL TERMINATIONS AT SERVER AND DATA DROP BY CAMPBELL IT GROUP.

PROVIDE NEW ELECTRICAL INFRASTRUCTURE FROM MAIN DISTRIBUTION PANEL TO NEW BRANCH DISTRIBUTION PANELS AND CIRCUITS TO SUPPORT THE HVAC AND PLUMBING INFRASTRUCTURE UPGRADES. RECONNECT TO EXISTING ELECTRICAL INFRASTRUCTURE TO REMAIN.

PROVIDE NEW PLUMBING INFRASTRUCTURE INCLUDING DOMESTIC HOT WATER HEATERS, MIXING VALVE, AND RECIRCULATION PUMP WITH PIPING TO END OF RISER ON 3RD FLOOR.

CONTRACTOR TO INCLUDE PERMITTING AND COSTS.

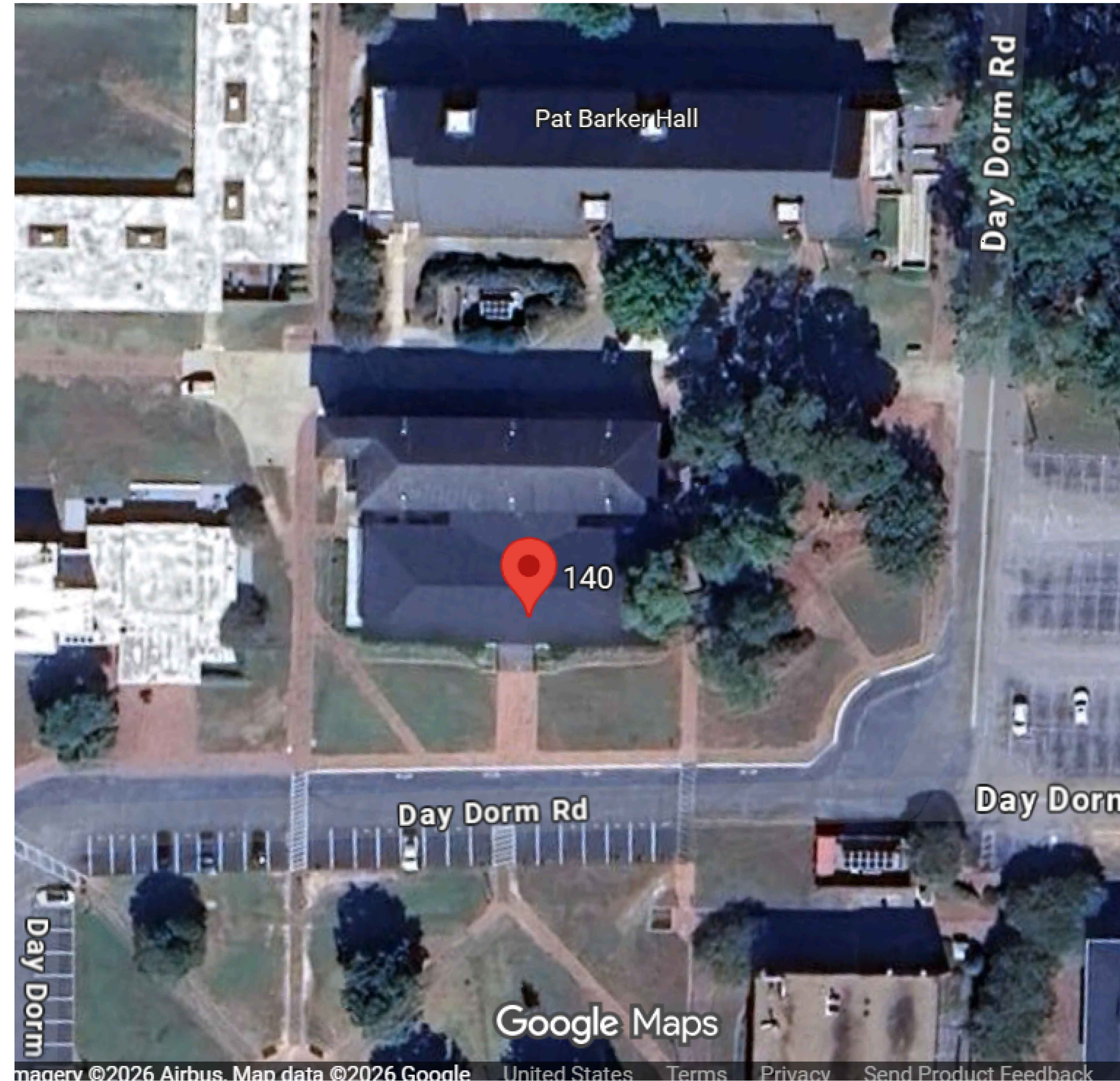
CONTRACTOR TO INCLUDE \$5,000 CONSTRUCTION ALLOWANCE IN BID FOR OWNER APPROVED CHANGES.

CONTRACTOR TO SOURCE MATERIALS AND SCHEDULE WORK FOR SUBSTANTIAL COMPLETION OF WORK BY AUGUST 07, 2026

DRAWING INDEX

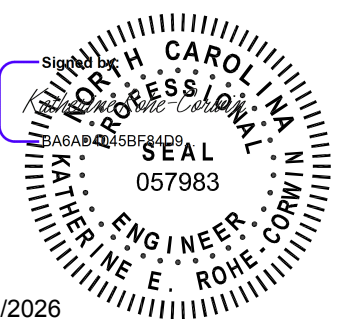
Sheet Number	Sheet Title
G-001	COVER SHEET
G-002	BUILDING CODE SUMMARY
P-001	PLUMBING SYMBOLS & ABBREVIATIONS
PD101	CRAWLSPACE DOMESTIC DEMOLITION PLAN AREA A
PD102	CRAWLSPACE DOMESTIC DEMOLITION PLAN AREA B
PD111	FIRST FLOOR DOMESTIC DEMOLITION PLAN AREA A
PD121	SECOND FLOOR DOMESTIC DEMOLITION PLAN
PD131	THIRD FLOOR DOMESTIC DEMOLITION PLAN
P-101	CRAWL SPACE DOMESTIC NEW WORK PLAN AREA A
P-102	CRAWLSPACE DOMESTIC NEW WORK PLAN AREA B
P-111	FIRST FLOOR DOMESTIC NEW WORK PLAN AREA A
P-121	SECOND FLOOR DOMESTIC NEW WORK PLAN
P-131	THIRD FLOOR DOMESTIC NEW WORK PLAN
P-501	DETAILS
P-601	SCHEDULES
M-001	MECHANICAL SYMBOLS & ABBREVIATIONS
MD101	CRAWLSPACE MECHANICAL DEMOLITION PLAN
MD111	FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA A
MD121	SECOND FLOOR MECHANICAL DEMOLITION PLAN
MD131	THIRD FLOOR MECHANICAL DEMOLITION PLAN
M-101	CRAWLSPACE MECHANICAL NEW WORK PLAN
M-111	FIRST FLOOR MECHANICAL NEW WORK PLAN AREA A
M-121	SECOND FLOOR MECHANICAL NEW WORK PLAN
M-131	THIRD FLOOR MECHANICAL NEW WORK PLAN
M-501	DETAILS
M-502	DETAILS
M-601	SCHEDULES
M-602	SCHEDULES
M-701	CONTROLS
E-001	ELECTRICAL SYMBOLS & ABBREVIATIONS
ED101	CRAWLSPACE ELECTRICAL DEMOLITION PLAN
ED111	FIRST FLOOR ELECTRICAL DEMOLITION PLAN AREA A
ED112	FIRST FLOOR ELECTRICAL DEMOLITION PLAN AREA B
ED121	SECOND ELECTRICAL DEMOLITION PLAN
ED131	THIRD FLOOR ELECTRICAL DEMOLITION PLAN
E-111	FIRST FLOOR ELECTRICAL NEW WORK PLAN AREA A
E-112	FIRST FLOOR ELECTRICAL NEW WORK PLAN AREA B
E-121	SECOND ELECTRICAL NEW WORK PLAN
E-131	THIRD FLOOR ELECTRICAL NEW WORK PLAN
E-501	DETAILS
E-601	SCHEDULES
E-901	RISER DIAGRAMS

CAMPUS MAP



CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUIES CREEK, NC 27506
CONSTRUCTION DOCUMENTS

SEAL



5/21/2026

KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

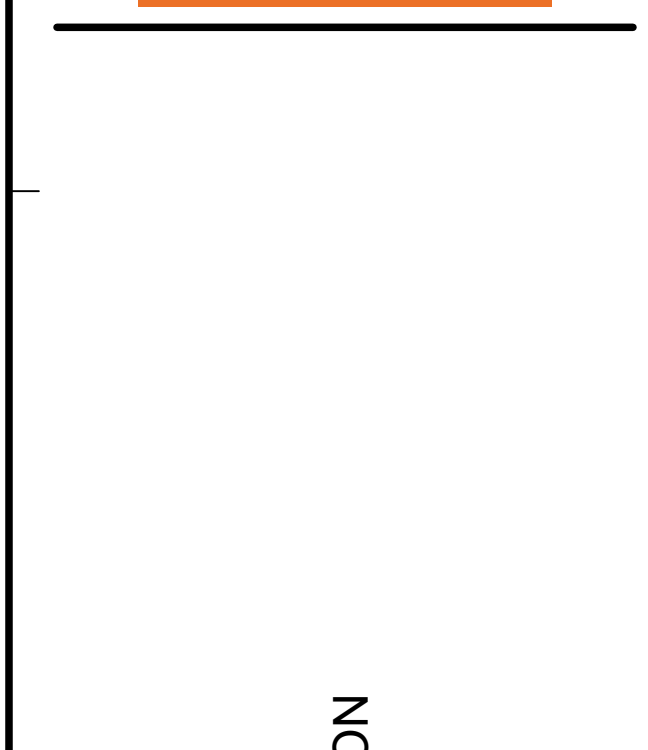
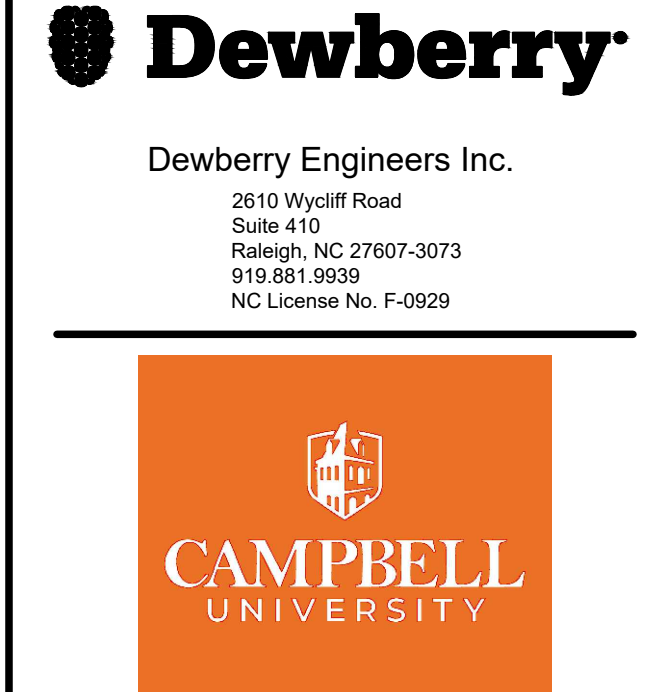
DRAWN BY _____ CB
 APPROVED BY _____ KR
 CHECKED BY _____ WH
 DATE _____ 05/20/2026
 TITLE
COVER SHEET

PROJECT NO. 50193045

G-001

SHEET NO.

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CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUIES CREEK, NC 27506
CONSTRUCTION DOCUMENTS

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: CU - POWELL HVAC AND PLUMBING RENOVATION
Address: 84 DAY DORM ROAD BUIES CREEK Zip Code: 27506
Owner/Authorized Agent: [Name] Phone: (919) 880-9995 E-Mail: RADAMS@CAMPBELL.EDU
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County HARNETT State

CONTACT: ROBBIE ADAMS
DESIGNER: FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural
Civil
Electrical DEWBERRY ENGINEERS WILLIAM A KEMP 041410 (919) 424-9724 GADAMS@DEWBERRY.COM
Fire Alarm
Plumbing DEWBERRY ENGINEERS CHRISTOPHER L COOK 039771 (919) 746-9830 WKEMP@DEWBERRY.COM
Mechanical DEWBERRY ENGINEERS JENNIFER A MCGEE 077985 (919) 746-9830 JMC@DEWBERRY.COM
Sprinkler-Standpipe
Structural
Retaining Walls -5' High
Other

2018 NC CODE FOR: New Construction Addition Renovation
 Time Interim Completion
 Shell/Core
 Placed Construction - Shell/Core
 Renovation
 Prescriptive Repair Chapter 14
Alteration: Level I Level II Level III
 Historic Property Change of Use
CONSTRUCTED: (date) 1980 ORIGINAL OCCUPANCY(S) (Ch. 3): RESIDENTIAL
RENOVATED: (date) 2028 CURRENT OCCUPANCY(S) (Ch. 3): RESIDENTIAL
RISK CATEGORY (table 1604.5) Current I II III IV Proposed I II III IV

BASIC BUILDING DATA
Construction Type: I-A I-B I-C I-D I-E
Check all that apply: I-A I-B I-C I-D I-E
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary) II III IV
Special Inspections Required: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

Table with 5 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), RENO/ALTER (SQ FT), SUB-TOTAL. All values are 0. A large 'NO CHANGE' watermark is overlaid.

ALLOWABLE AREA
Primary Occupancy Classification: SELECT ONE
Associate A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory
Hazardous
Institutional
Mercantile
Residential
Storage
Utility and Miscellaneous
Accessory Occupancy Classification:
Incidental Uses (Table 509.1)
Special Uses (Chapter 4 - List Code Sections)
Special Provisions (Chapter 5 - List Code Sections)
Mixed Occupancy: No Yes Separation: No Yes Exception: No Yes
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies in the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
Separated Use (508.4) -
See below for area calculations for each story; the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1
Allowable Area of Occupancy A Allowable Area of Occupancy B

2018 NC Administrative Code and Policies Appendix B for Building

Table with 5 columns: STORY NO., OCCUPATION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABL 506.2* AREA, (C) AREA FOR HEIGHT INCREASE¹, (D) ALLOWABLE AREA PER STORY FOR HEIGHT². All values are 0. A large 'NO CHANGE' watermark is overlaid.

Footnote 1: Footnote area increases from Section 507.1 that:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)
e. Percent of footage increase: $I = 100(F/P - 0.25) \times W/30 = (\%)$
2. Unfilled area applicable under conditions of Section 507.
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4. The maximum area of open parking garages must comply with Table 406.5.4
5. Footnote increase is based on the unpenetrated area value in Table 506.2.

ALLOWABLE HEIGHT
Table with 4 columns: ALLOWABLE HEIGHT (TABLE 507), WINDOW PLANS, CODE REFERENCE. A large 'NO CHANGE' watermark is overlaid.

2018 NC Administrative Code and Policies Appendix B for Building

FIRE PROTECTION REQUIREMENTS
Table with 10 columns: BRANG ELEMENT, FIRE SEPARATION DISTANCE (FEET), HOIST, BUILDING PROTECTION (W/ STRUCTURE), RETAIL FLOOR AREA (SQ FT), DESIGN FLOOR RATED ASSEMBLY, DESIGN FLOOR RATED PENETRATION, DESIGN FLOOR RATED WALL. A large 'NO CHANGE' watermark is overlaid.

PERCENTAGE OF WALL OPENING CALCULATIONS
Table with 4 columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREES OF OPENING PROTECTION (TABLE 305.4), ALLOWABLE AREA (%), ACTUAL DOWN ON PLAN (%). A large 'NO CHANGE' watermark is overlaid.

2018 NC Administrative Code and Policies Appendix B for Building

LIFE SAFETY SYSTEM REQUIREMENTS
Table with 2 columns: SYSTEM, REQUIREMENT. A large 'NO CHANGE' watermark is overlaid.

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #:
 Fire and/or smoke main wall locations (Chapter 7)
 Alarmed and roll property locations (if not on the site plan)
 Exterior wall opening area with respect to assumed property lines (705.8)
 Occupancy types for each area as required to calculate load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1009.2, 1010.3, 1011)
 Dead end lengths (1050.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity for each room or area based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire-rated fire partition/smoke barrier.
 Location of doors with panic hardware (1010.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification 2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)
Table with 7 columns: TOTAL UNITS, ACCESSIBLE UNITS, ACCURABLE UNITS, TYPE A UNITS, TYPE B UNITS, TYPE B UNITS, OTHER ACCESSIBLE UNITS. A large 'NO CHANGE' watermark is overlaid.

2018 NC Administrative Code and Policies Appendix B for Building

ACCESSIBLE PARKING (SECTION 1106)
Table with 5 columns: LEGAL PARKING AREA, TOTAL # OF PARKING SPACES, # OF ACCESSIBLE SPACES PROVIDED, TOTAL # ACCESSIBLE PROVIDED. A large 'NO CHANGE' watermark is overlaid.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
Table with 10 columns: ONE, WATER CLOSURES, URINALS, LAVATORIES, SINKS, DRINKING FOUNTAINS, SPACE, ENDS, NEW, RATED.

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPL, DHHS, ICC, etc., describe below)

2018 NC Administrative Code and Policies Appendix B for Building

ENERGY SUMMARY
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan set. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.
Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference)
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
"Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)
Roofing Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
 Skylights in each assembly:
U-Value of skylight:
Total square footage of skylights in each assembly:
Exterior Wall (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
 Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
Projection factor:
Door R-Values:
Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/Vertical requirement:
Slab House

2018 NC Administrative Code and Policies Appendix B for Building

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factor: Snow (ls) _____ Seismic (ls) _____
Live Loads: _____ psf
_____ psf
_____ psf
Ground Snow Load: _____ psf
Wind Load: Ultimate Wind Speed Exposure Category: _____ (ASCE-7)
SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) I II III IV
Special Response Acceleration S_s _____ %
Site Classification (ASCE 7) A B C D E F
Data Source: Field Test Pressure Historical Data
Basic structural system: Bearing Wall Dual w/ Special Moment Frame Building Frame Dual w/ Intermediate RC or Special Steel Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No
LATERAL DESIGN CONTROLS: Earthquake Wind
SOIL BEARING CAPACITIES: Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____

2018 NC Administrative Code and Policies Appendix B for Building

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone 3A
winter dry bulb: 10 _____
summer dry bulb: 95 _____
Interior design conditions
winter dry bulb: 70 _____
summer dry bulb: 72 _____
relative humidity: 50 _____
Building heating load: NO CHANGE
Building cooling load: NO CHANGE
Mechanical Spacing Conditioning System
Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category, if oversized, state reason: N/A
Chiller
Size category, if oversized, state reason: N/A
List equipment efficiencies: REFER TO EQUIPMENT SCHEDULES

2018 NC Administrative Code and Policies Appendix B for Building

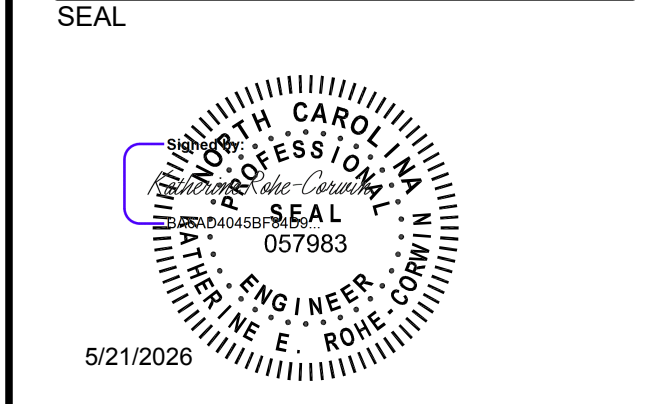
2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code Prescriptive Performance
ASHRAE 90.1 Prescriptive Performance
Lighting schedule (each fixture type)
lamp type required in fixture _____
number of lamps in fixture _____
ballast type used in the fixture _____
number of ballasts in fixture _____
total wattage per fixture _____
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed
Additional Efficiency Package Options
(When using the 2018 NCECC, not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies Appendix B for Building

LIFE-SAFETY PENETRATION SCHEDULE
Table with 3 columns: ASSEMBLY AND PENETRATION TYPE, F RATING (HR), U.L. DETAIL SYSTEM NUMBER. Rows include CONCRETE FLOORS, CONCRETE MASONRY WALLS, CONCRETE WALLS, GYPSUM WALLBOARD.

NOTES:
1. REFER TO SECTION 230500 FOR MORE INFORMATION.
2. SELECT UL LISTED PENETRATION DETAIL MATCHING THE PENETRATION CONDITIONS.
3. SUBMIT AN APPROPRIATE DETAIL FOR ENGINEER REVIEW IF THE PROJECT CONDITIONS ARE NOT REPRESENTED ABOVE.



KEY PLAN

SCALE

REVISIONS table with columns for NO., DESCRIPTION, DATE.

NO. DESCRIPTION DATE
DRAWN BY _____ VALUE
APPROVED BY _____ VALUE
CHECKED BY _____ VALUE
DATE _____ 05/20/2026

TITLE
BUILDING CODE SUMMARY

PROJECT NO. 50193045

G-002

SHEET NO.

F

E

D

C

B

A

STANDARDS DETAILING SYMBOLS

Table with columns SYMBOl and DESCRIPTION. Includes symbols for Callout, Building/Wall Section, View Title, Level Line, Grid Line, North Indicator, Room Tag, Revision Cloud, Keynote Tag, Spot Elevation Symbol, Point of Connection, Linetypes (Background, Existing, Demolition, New, Future, Hidden/Under Obstruction).

GENERAL NOTES - PLUMBING

- 1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE PLUMBING SYSTEMS. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA PLUMBING CODE.
2. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
...
15. WHERE AFFECTED BY THE NEW WORK CONTRACTOR SHALL RELOCATE ANY EXISTING PIPING, COMPONENTS, OR SYSTEMS THAT ARE REQUIRED TO REMAIN IN ORDER TO KEEP EXISTING SYSTEMS OPERATIVE.

PLUMBING SYSTEMS SUMMARY table with columns: PLUMBING SYSTEM / SERVICE, FIXTURE UNITS, PEAK FLOW. Rows: DOMESTIC WATER (77 WSFU, 60 GPM), NATURAL GAS (N/A, 400 CFH).

PLUMBING GENERAL DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS FOR ALL AREAS OF WORK PRIOR TO BIDDING THE PROJECT.
2. THESE DRAWINGS ARE BASED ON EXISTING RECORD DOCUMENTS AND FIELD OBSERVATIONS. THE EXISTING CONDITIONS INDICATED WITHIN THESE DOCUMENTS ARE APPROXIMATE AND DO NOT INCLUDE EVERY COMPONENT. REPORT DISCREPANCIES TO THE ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
...
13. IF ANY EXISTING MATERIAL IS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS SUCH AS ASBESTOS, LEAD-BASED PAINT, OR POLYCHLORINATED BI-PHENYLS (PCBs), STOP WORK IMMEDIATELY IN THAT AREA AND NOTIFY THE OWNER AND ARCHITECT OR ENGINEER.

ABBREVIATIONS - PLUMBING

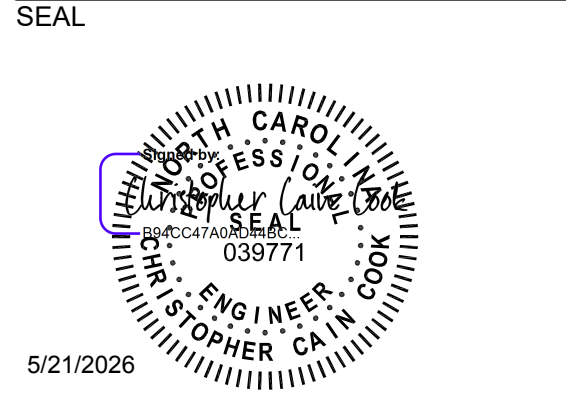
THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT. Table listing abbreviations like AMP, AFC, AFF, AFG, AGA, ANSI, ARCH, ASHRAE, ASME, ASPE, ASSE, ASTM, AWWA, BFC, BFF, BFG, BFP, BHP, BOP, BOS, BTU, BTU/H, CC, CCTV, CF, CFH, CFM, CGA, CO, CSC, CXA, DCV, DEG., DFU, DIA., DN, EC, EL, ETR, EX, FBO, FGI, FPS, FT., FT-HD, FT-LB, GAL, GC, GPD, GPH, GPM, HOA, HP, HVAC, HZ, IN., IN-LB, IN/HR, INV, KW, LB, LF, MAX, MC, MIN, N-C, N-O, N/A, NEMA, NFPA, NIC, NTP, NTS, OC, OS&Y, PC, PCF, PRV, PSF, PSI, RPM, RPZ, SC, SF, T&P, T, TEMP, TOP, TOS, TTB, TYP, UNO, UP, VIF, VTR, W, WSFU, ZCV, °F, Δ.

PLUMBING PIPING SYMBOLS

Table with columns SYMBOl and DESCRIPTION. Lists symbols for Domestic Cold Water, Non-Potable Water Supply, Tempered Water Supply, Domestic Hot Water Supply (120°F, 140°F), Domestic Hot Water Return, Domestic Hot Water Return (120°F, 140°F), Purified Water Supply, Purified Water Return, Sanitary Waste, Acidic Waste, Grease-Laden Waste, Oil-Laden Waste, Sanitary Vent, Acidic Vent, Grease-Laden Vent, Oil-Laden Vent, Condensate Drain, Indirect Drain, Pumped Drain or Pump Discharge, Primary Roof Drain, Secondary Roof Drain, Fuel Gas Supply (Natural Gas or Propane), Compressed Air Supply, Ball Valve, Butterfly Valve, Gate Valve, Globe Valve, Solenoid Valve, Check Valve, Pressure Reducing Valve, Automatic Balancing Valve (Flow Limiter), Manually Calibrated Balancing Valve, Thermostatic Balancing Valve, Water Hammer Arrestor, Wall Hydrant (Hose Bibb), Backwater Valve, Floor Drain (Round or Square), Trench Drain, Roof Drain, Wall Cleanout, Floor Cleanout, End-of-Line Cleanout, P-Trap, Pipe Turn Up (Penetrates to Floor Above), Pipe Turn Down (Penetrates to Floor Below), Pipe Elevation Drop, Pipe Bottom Take Off, Pipe Top Take Off, Pipe Cap or Plug, Pipe Union, Wye Strainer, Wye with Combination Eighth Bend, Sanitary Tee, Wye 45°.

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CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS



KEY PLAN

SCALE

REVISIONS table with columns NO., DESCRIPTION, DATE.

DRAWN BY SDD
APPROVED BY CCC
CHECKED BY CPH
DATE 05/20/2026
TITLE

PLUMBING SYMBOLS & ABBREVIATIONS

PROJECT NO. 50193045

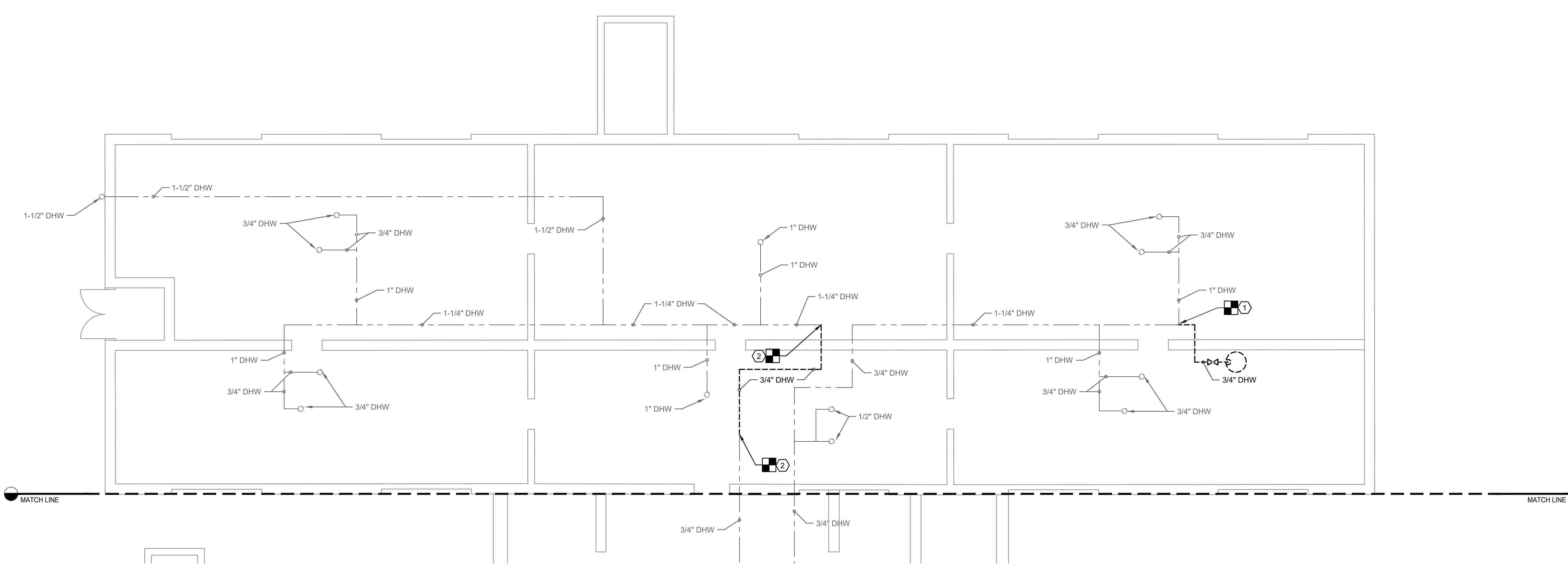
P-001

SHEET NO.

5/20/2026 4:54:04 PM
P:\03193045\CAD\PLUMBING\50193045 P-001 PLUMBING SYMBOLS & ABBREVIATIONS.DWG

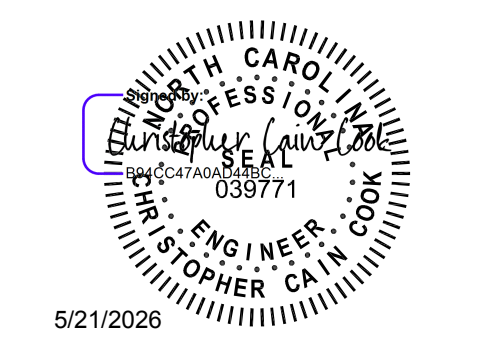


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84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS



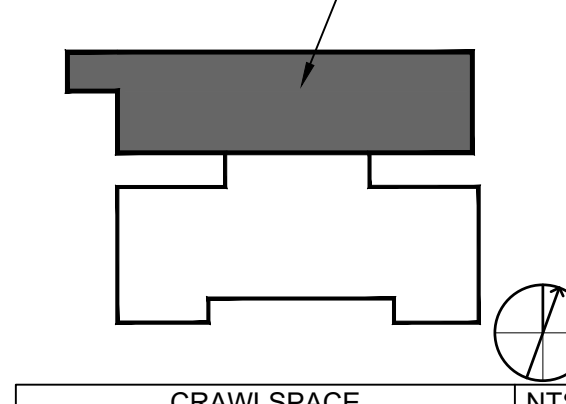
1 CRAWLSPACE DOMESTIC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"
0' 2' 4' 8'

SEAL



5/21/2026

KEY PLAN



SCALE INTS.

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY SDD
APPROVED BY CCC
CHECKED BY CPH
DATE 05/20/2026

TITLE
**CRAWLSPACE
DOMESTIC
DEMOLITION PLAN
AREA A**

PROJECT NO. 50193045

PD101

SHEET NO.

GENERAL NOTES:

- 1. REFER TO P-001 FOR PLUMBING GENERAL NOTES.

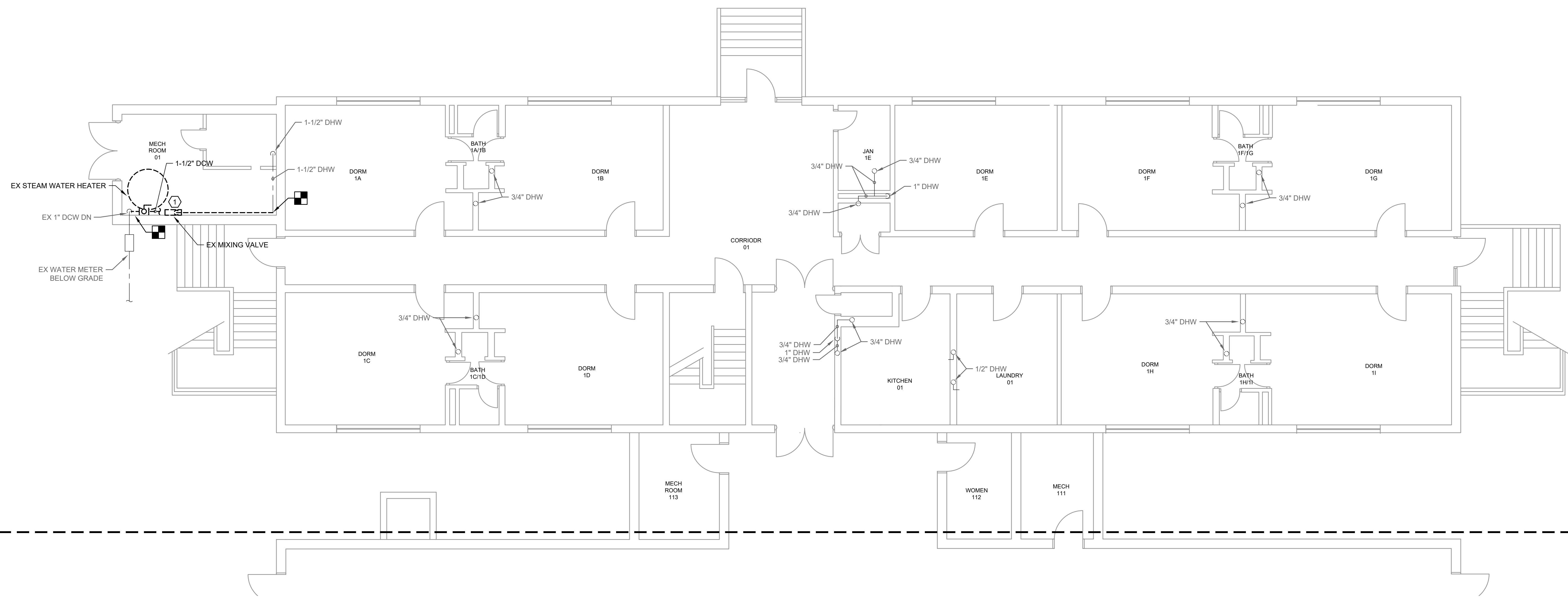
KEYNOTES:

- 1. DEMOLISH EXISTING ELECTRIC WATER HEATER AND ASSOCIATED PIPING BACK TO NEAREST ACTIVE MAIN AS INDICATED. CAP PIPING AT MAIN.
- 2. DEMOLISH EXISTING PIPING AS INDICATED AND PREPARE FOR RECONNECTION.

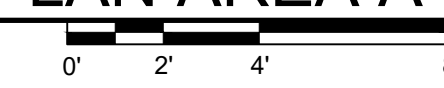


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 84 DAY DORM ROAD
 BUJES CREEK, NC 27506
 CONSTRUCTION DOCUMENTS

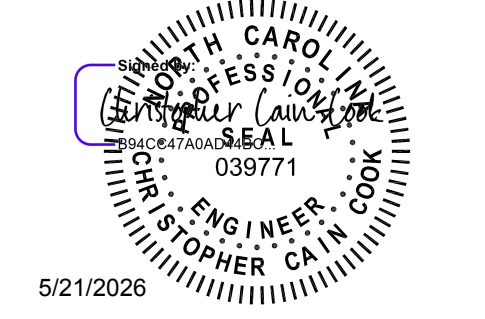
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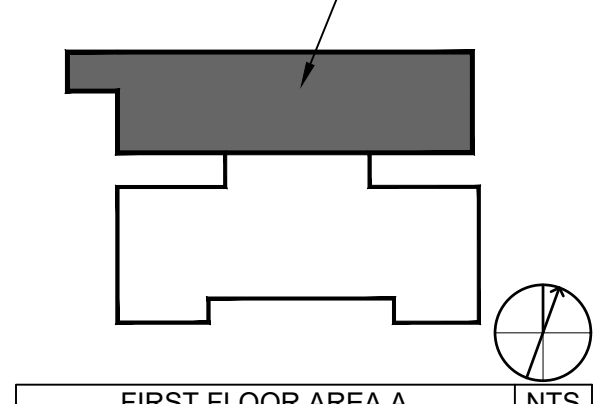
1 FIRST FLOOR DOMESTIC DEMOLITION PLAN AREA A
 SCALE: 3/16" = 1'-0"



SEAL



KEY PLAN



FIRST FLOOR AREA A INTS.
 SCALE

REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

- REFER TO P-001 FOR PLUMBING GENERAL NOTES.

KEYNOTES:

- DEMOLISH EXISTING STEAM WATER HEATER, MIXING VALVE, AND ASSOCIATED ACCESSORIES AND PIPING AS INDICATED. PREPARE PIPING FOR RECONNECTION.

DRAWN BY: SDD
 APPROVED BY: CCC
 CHECKED BY: CPH
 DATE: 05/20/2026

TITLE
FIRST FLOOR DOMESTIC DEMOLITION PLAN AREA A

PROJECT NO. 50193045


PD111

SHEET NO.

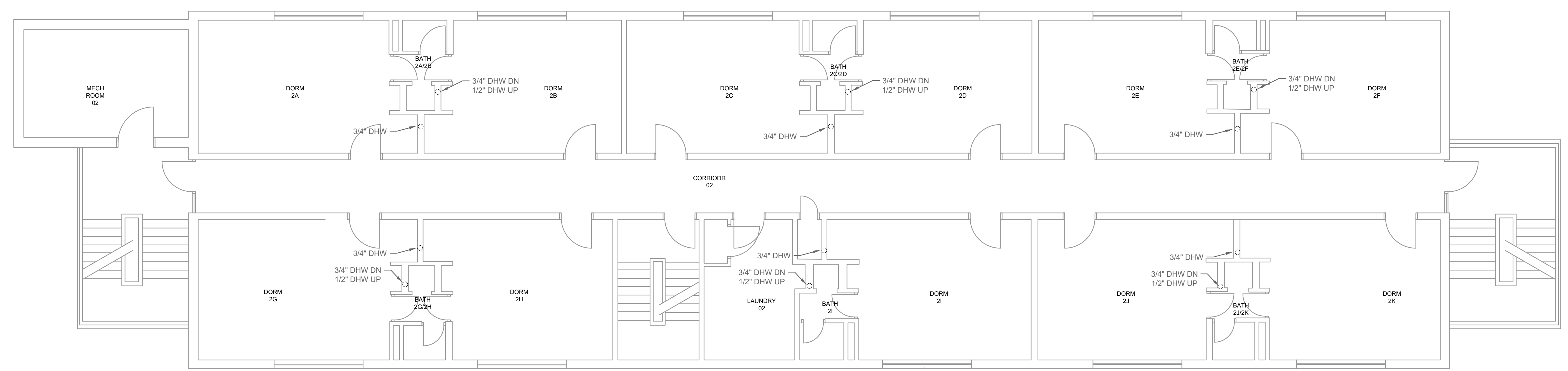
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5/20/2026 9:29:26 AM
 P:\01930365\CAD\PLUMBING\50193045 PD121 SECOND FLOOR DOMESTIC DEMOLITION PLAN.DWG

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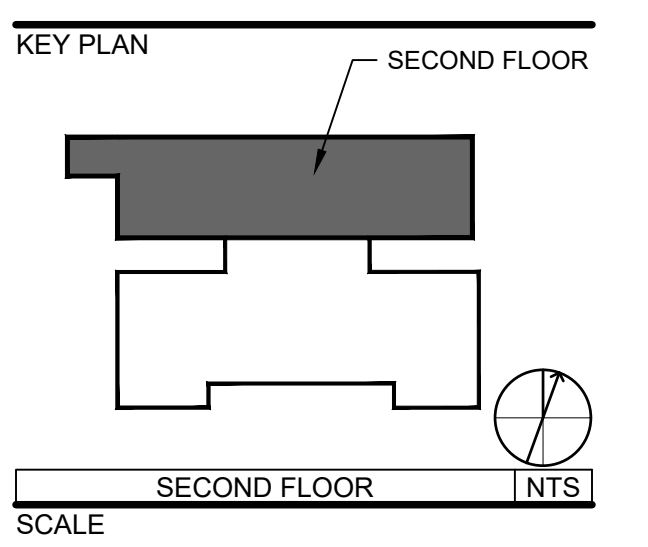


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 CONSTRUCTION DOCUMENTS



1 SECOND FLOOR DOMESTIC DEMOLITION WORK PLAN
 SCALE: 3/16" = 1'-0" 0' 2' 4' 8'

SEAL

REVISIONS

NO.	DESCRIPTION	DATE

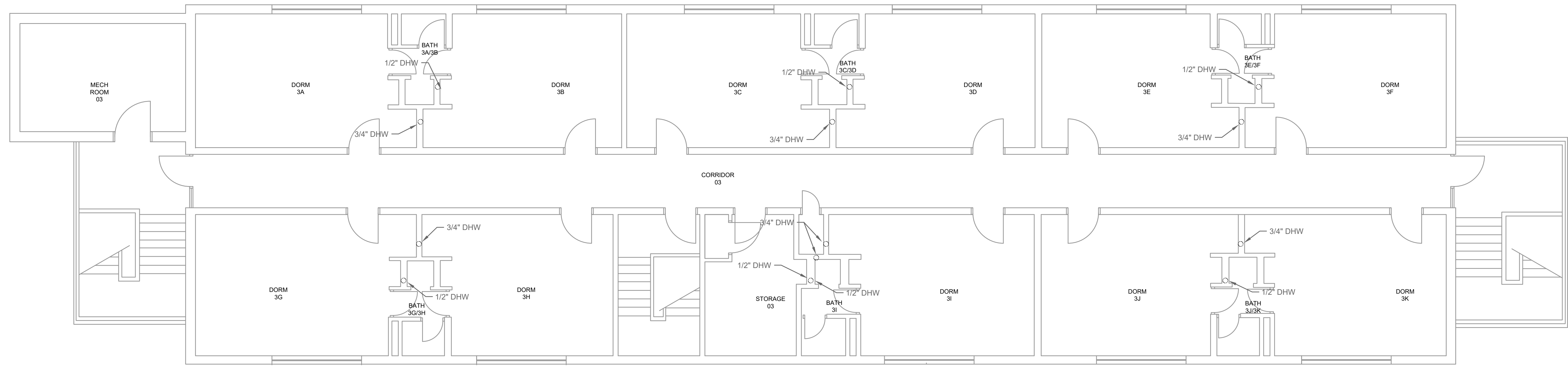
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 1. REFER TO P-001 FOR PLUMBING GENERAL NOTES.

KEYNOTES:

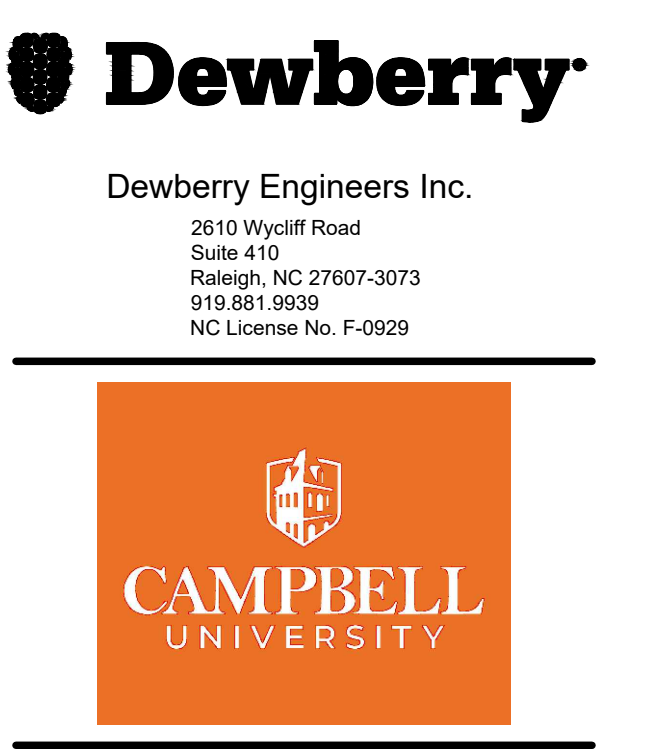
DRAWN BY: SDD
 APPROVED BY: CCC
 CHECKED BY: CPH
 DATE: 05/20/2026
TITLE
SECOND FLOOR DOMESTIC DEMOLITION PLAN

PROJECT NO. 50193045
PD121
 SHEET NO.

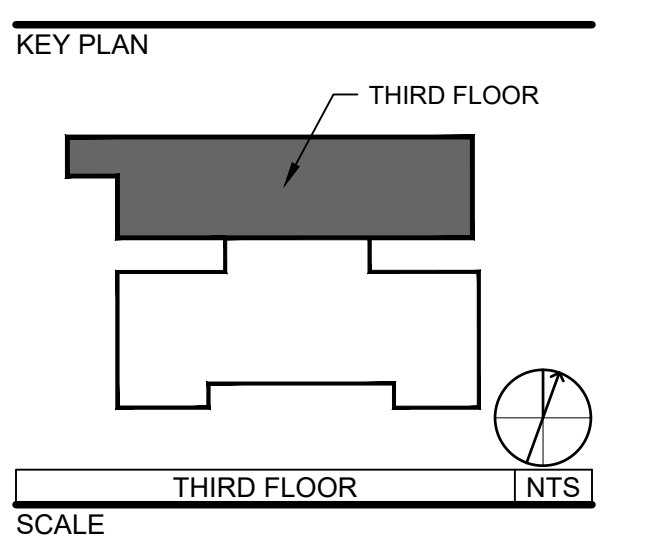
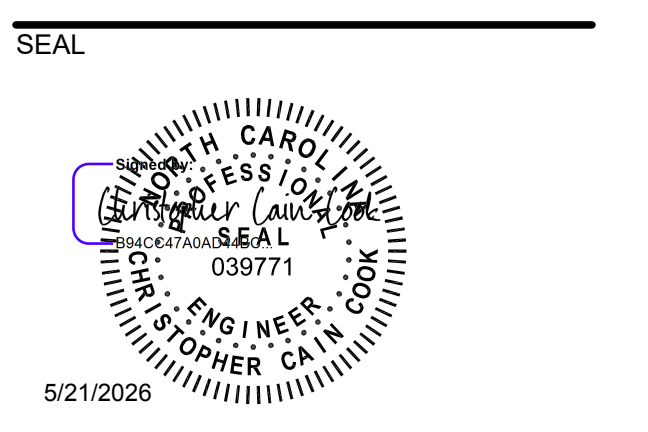
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① THIRD FLOOR DOMESTIC DEMOLITION PLAN
 SCALE: 3/16" = 1'-0"
 0 2 4 6



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NO.	DESCRIPTION	DATE

GENERAL NOTES:
 1. REFER TO P-001 FOR PLUMBING GENERAL NOTES.

KEYNOTES:

DRAWN BY: SDD
 APPROVED BY: CCC
 CHECKED BY: CPH
 DATE: 05/20/2026
TITLE
THIRD FLOOR DOMESTIC DEMOLITION PLAN

PROJECT NO. 50193045

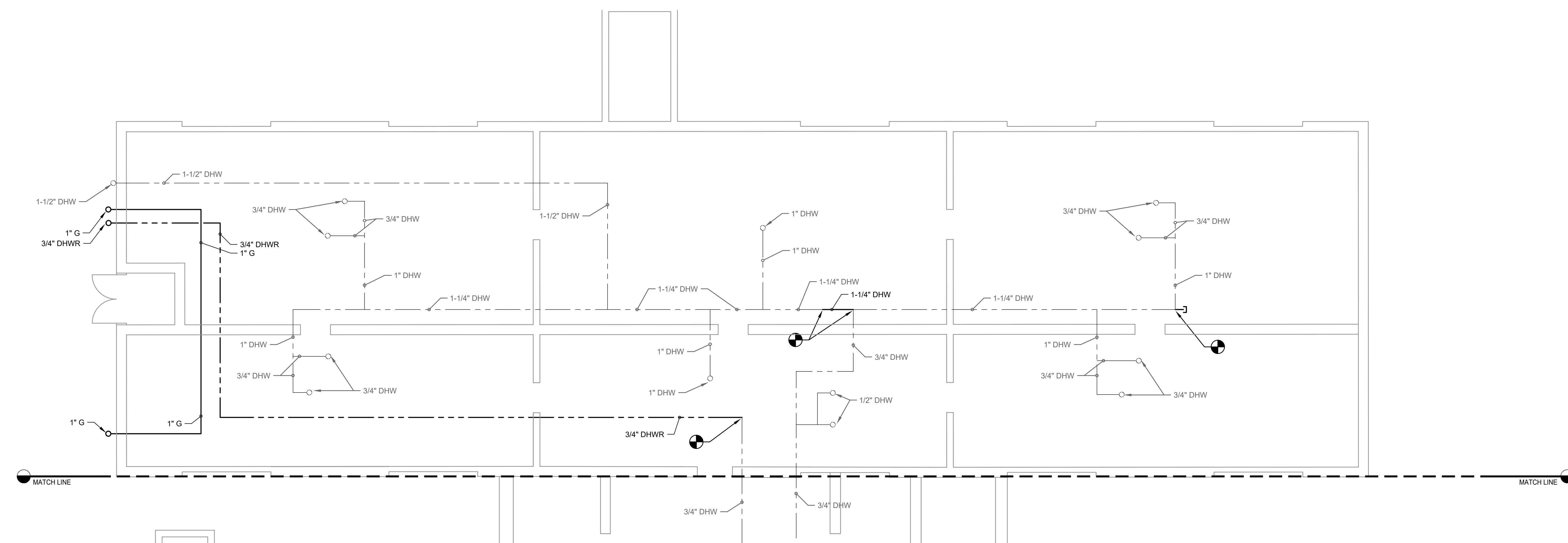
PD131
 SHEET NO.



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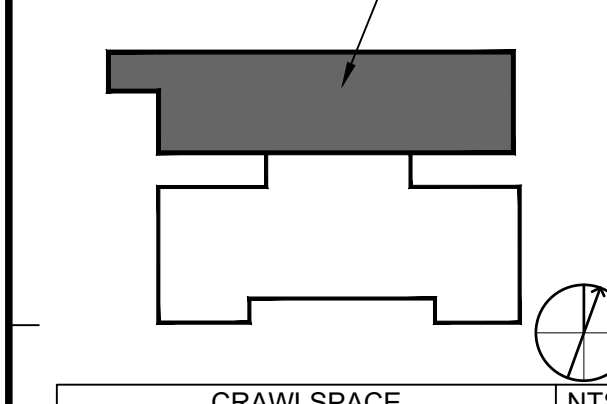
1 CRAWLSPACE DOMESTIC NEW WORK PLAN
SCALE: 3/16" = 1'-0" 0' 2' 4' 8'

SEAL



5/21/2026

KEY PLAN



SCALE

REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

1. REFER TO P-001 FOR PLUMBING GENERAL NOTES.

KEYNOTES:

DRAWN BY SDD

APPROVED BY CCC

CHECKED BY CPH

DATE 05/20/2026

TITLE

CRAWL SPACE DOMESTIC NEW WORK PLAN AREA A

PROJECT NO. 50193045

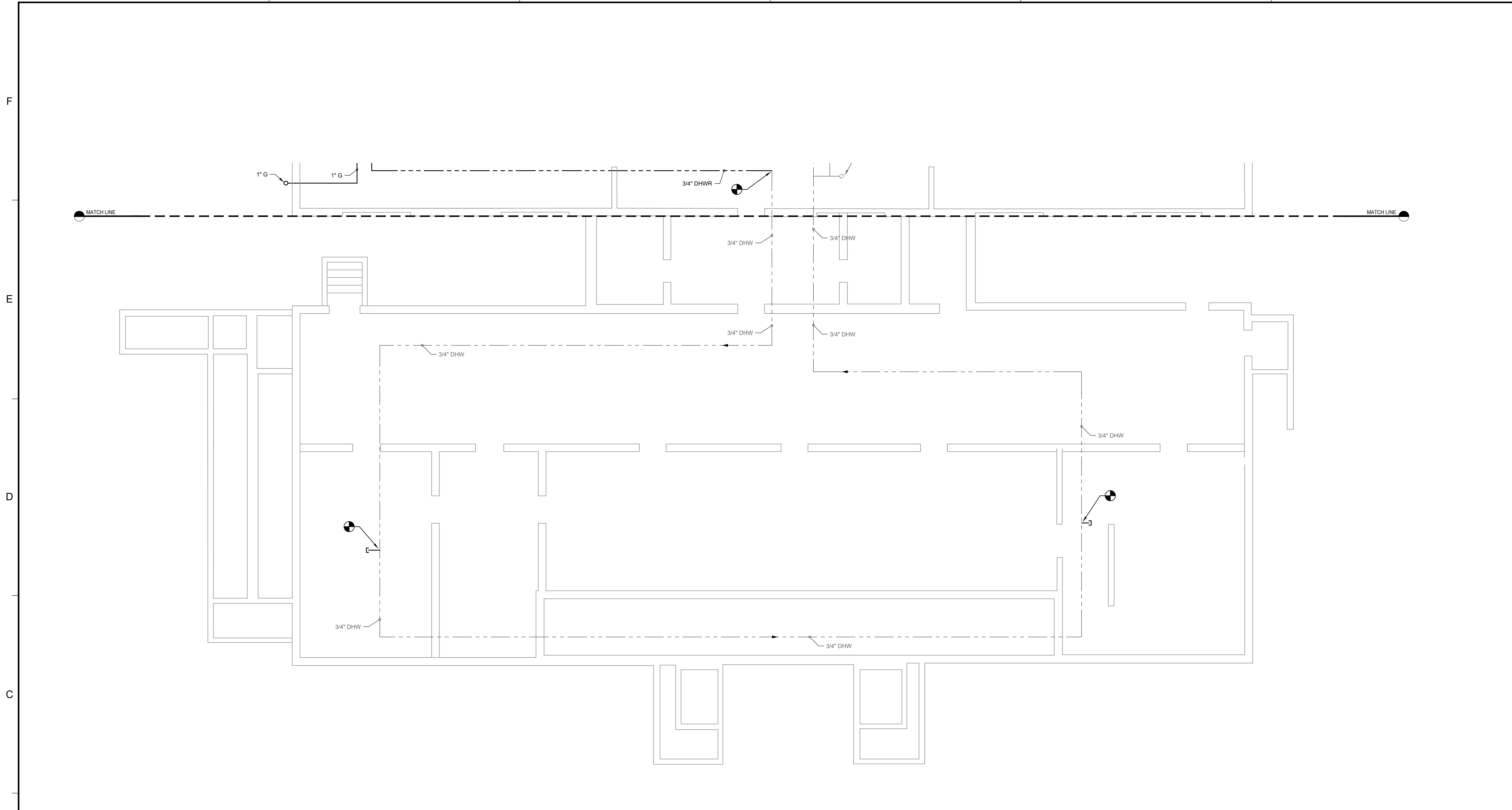
P-101

SHEET NO.

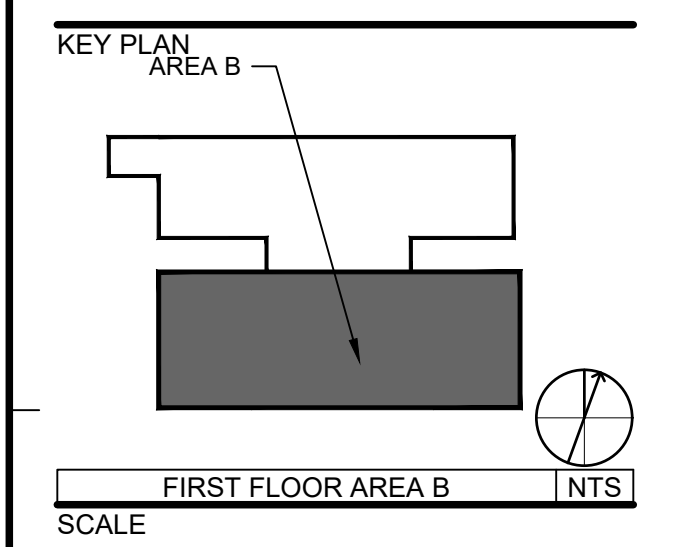
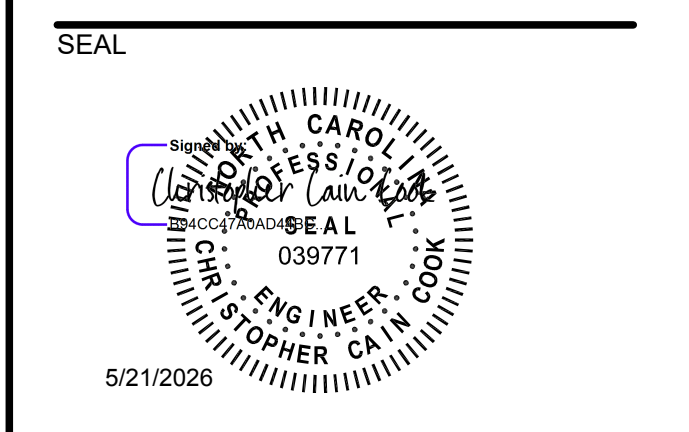
P:\0193045\CAD\PLUMBING\50193045 P-101 CRAWLSPACE DOMESTIC NEW WORK PLAN.DWG 5/20/2026 9:54:44 AM



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CONSTRUCTION DOCUMENTS



1 CRAWLSPACE DOMESTIC NEW WORK PLAN AREA B
SCALE: 3/16" = 1'-0"



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:
1. REFER TO P-001 FOR PLUMBING GENERAL NOTES.

KEYNOTES:

DRAWN BY: SDD
APPROVED BY: CCC
CHECKED BY: CPH
DATE: 05/20/2026

TITLE
CRAWLSPACE DOMESTIC NEW WORK PLAN AREA B

PROJECT NO. 50193045

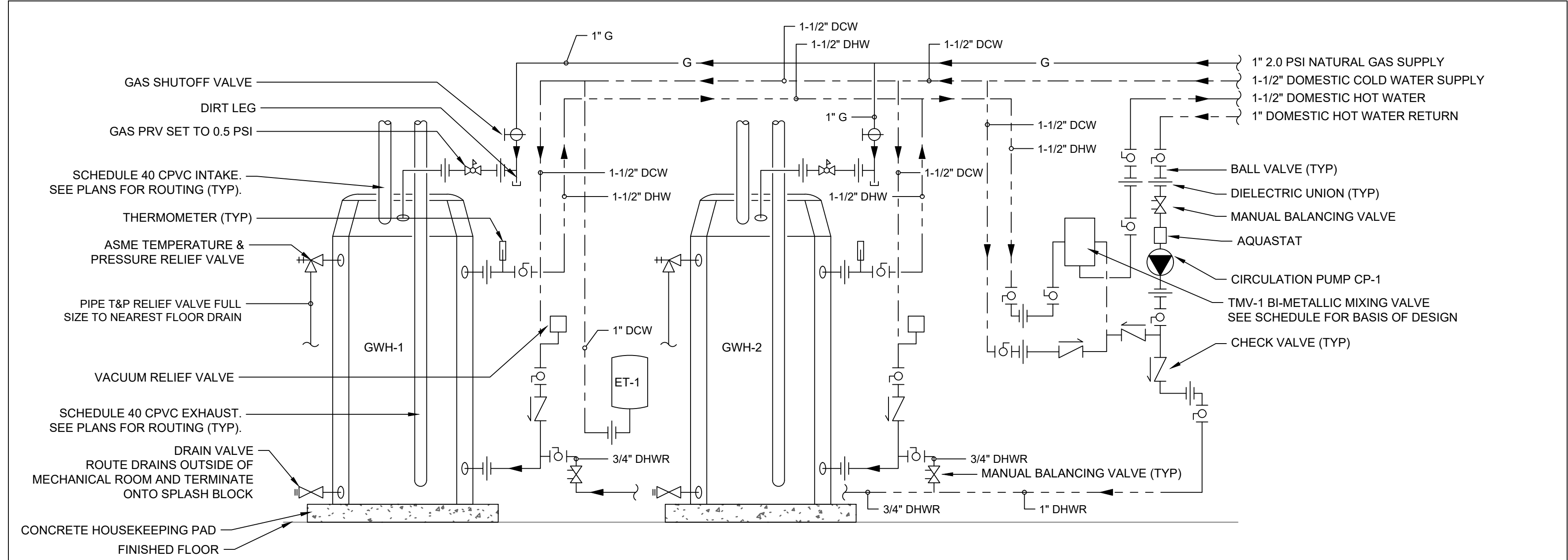
P-102

SHEET NO.

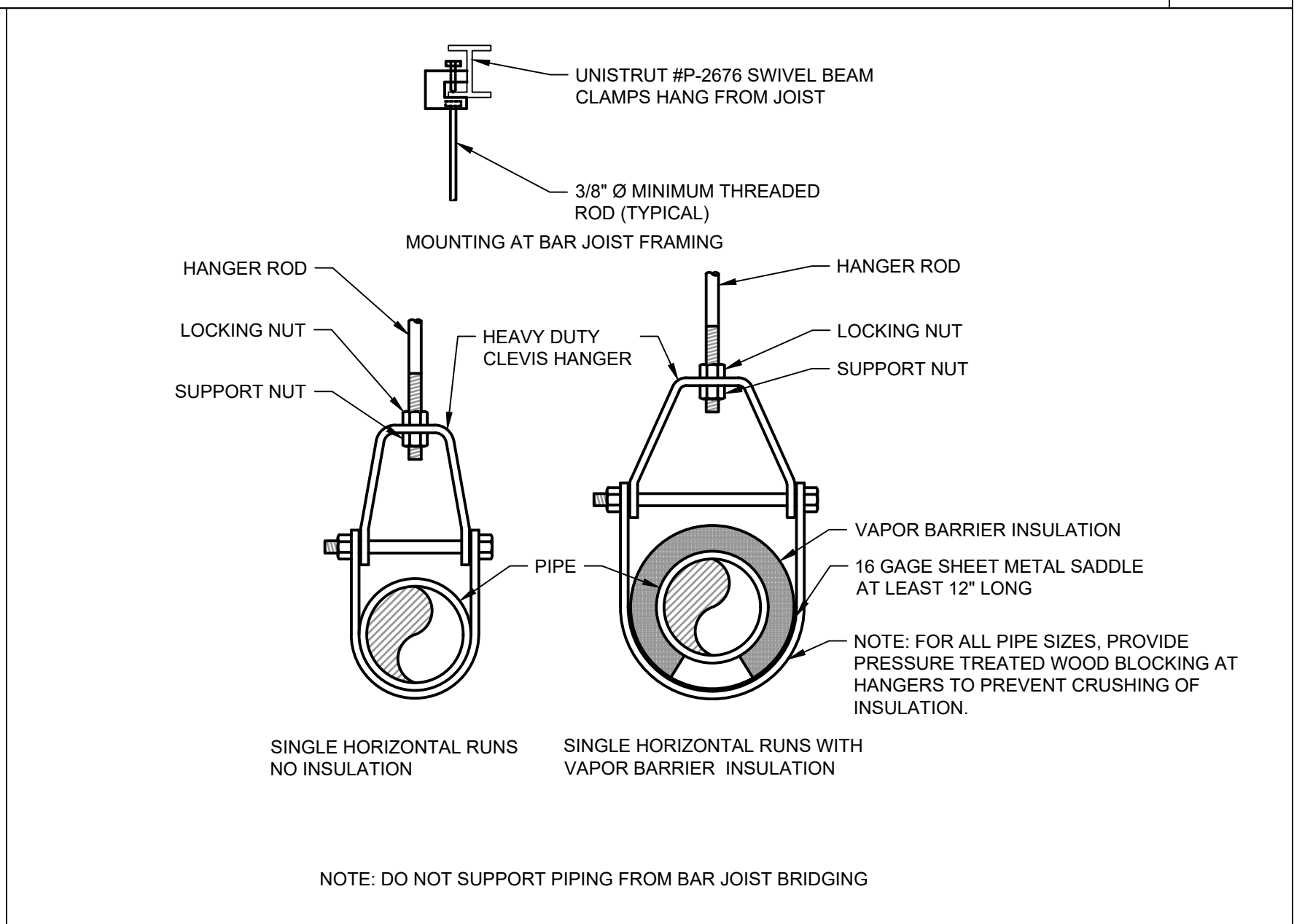
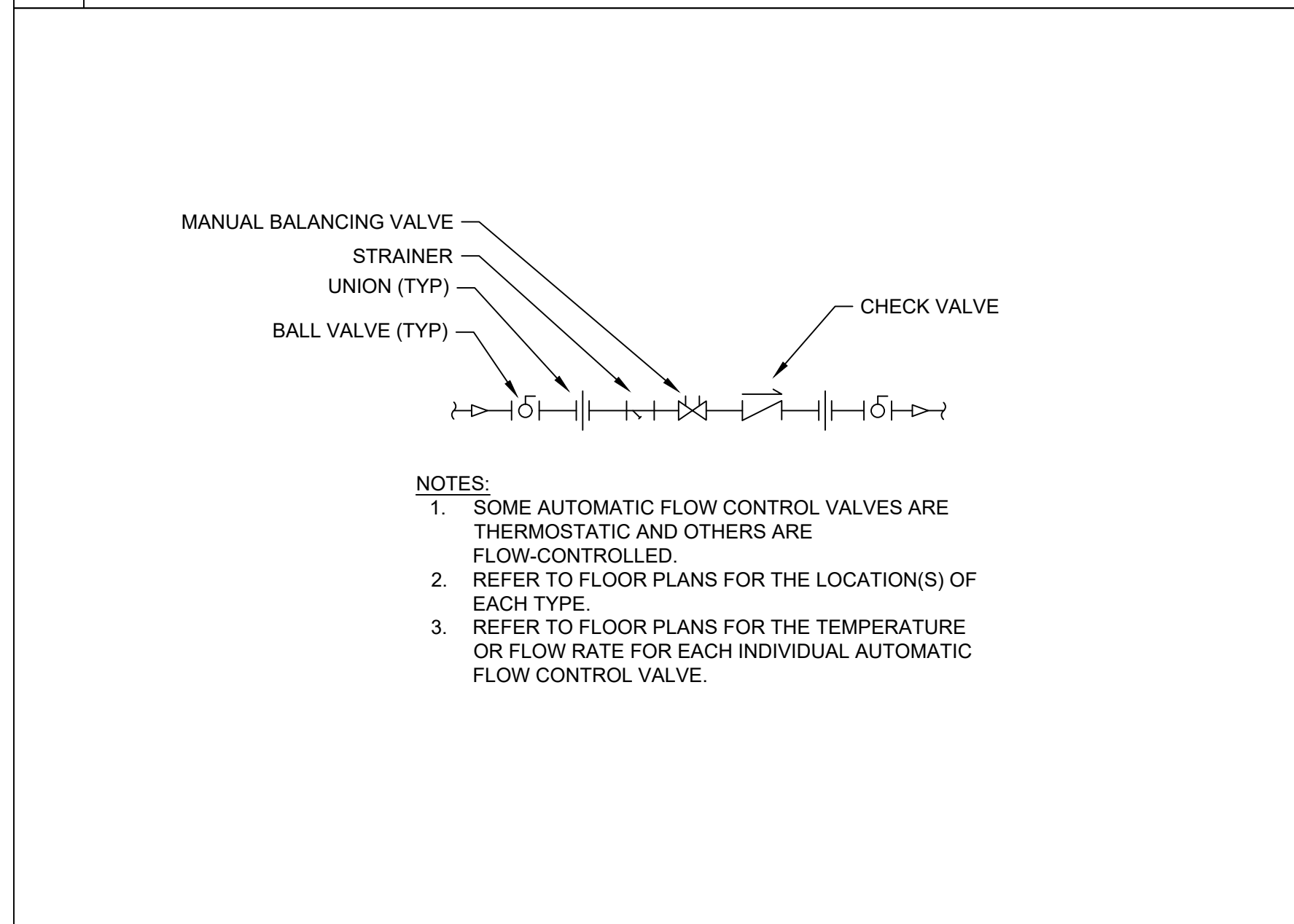
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P-501 (2026) 5/20/2026 AM
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A B C D E F



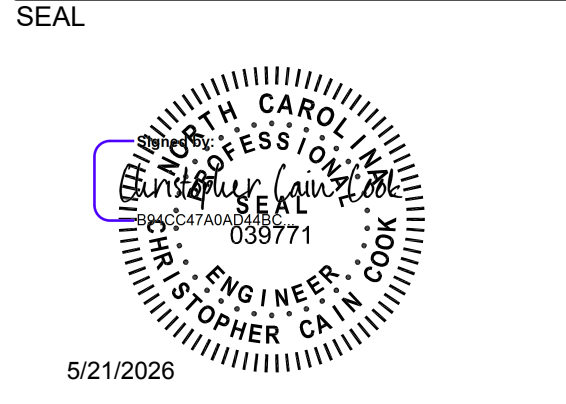
1 GAS WATER HEATER WITH TMV SCALE: NTS
P120-75



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 CONSTRUCTION DOCUMENTS



KEY PLAN

SCALE

NO.	DESCRIPTION	DATE

DRAWN BY SDD
 APPROVED BY CCC
 CHECKED BY CPH
 DATE 05/20/2026
 TITLE

DETAILS

PROJECT NO. 50193045

P-501

SHEET NO.

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PUMP SCHEDULE								
MARK	DESCRIPTION	FLOW RATE	DESIGN HEAD	ELECTRICAL DATA			COMMENTS	
				AMPS	VOLTS	PHASE		
CP-1	DHWR INLINE CIRCULATION PUMP	4 GPM	30 FT	2	115	1	60	TACO 0034e-SF2 INLINE ECM STAINLESS STEEL CIRCULATION PUMP. PROVIDE WITH 3/4" CONNECTIONS AND STAINLESS STEEL CASING FOR POTABLE WATER SYSTEMS. PROVIDE WITH TACO COMPATIBLE AQUASTAT. REFER TO DETAIL #1/P-601 FOR MORE INFORMATION.

MODELS LISTED ARE BASIS OF DESIGN (SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS LIST).

THERMOSTATIC MIXING VALVE SCHEDULE

MARK	DESCRIPTION	PIPE SIZES	INLET & OUTLET TEMP	DESIGN FLOW	PRESSURE DROP AT FLOW	COMMENTS
TMV-1	MASTER HIGH-LOW THERMOSTATIC MIXING VALVE	1" IN 1-1/4" OUT	140°F IN 120°F OUT	33 GPM	10 PSI	LEONARD TM-8208-LF-DT-IT, HIGH-LOW BI-METALLIC THERMOSTATIC MIXING VALVE, MINIMUM 1.0 GPM FLOW RATE WITH RECIRCULATION, AND INLET THERMOMETERS, ASSE 1017 CERTIFIED.

GAS-FIRED WATER HEATER SCHEDULE

MARK	DESCRIPTION	STORAGE	RECOVERY @ 100°F	INPUT ENERGY	THERMAL EFFICIENCY	ELECTRICAL	COMMENTS
GW-1	GAS-FIRED CONDENSING WATER HEATER	100 GALLONS	256 GALLONS PER HOUR	199,000 BTU/HOUR	96%	120 VOLT 1 PHASE 20 AMPS	AO SMITH CYCLONE BTH-199(A), PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.

NOTES:

- FURNISH 120V, 20A DISCONNECT TO ELECTRICAL CONTRACTOR FOR INSTALLATION. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE WITH BACKNET MS/TP CAPABILITY FOR CONNECTION TO BUILDING AUTOMATION SYSTEM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE WITH WESSELS T-42V DIAPHRAGM STYLE THERMAL EXPANSION TANK WITH MINIMUM 11 GALLONS ACCEPTANCE VOLUME.
- PROVIDE WITH OPTIONAL CONDENSATE NEUTRALIZATION KIT FROM MANUFACTURER.
- PROVIDE WITH CPVC SCHEDULE 40 CONCENTRIC FLUE AND INTAKE PIPE PER MANUFACTURERS RECOMMENDATIONS AND AS ROUTED ON PLANS.



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84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS

SEAL



KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY SDD
APPROVED BY CCC
CHECKED BY CPH
DATE 05/20/2026
TITLE

SCHEDULES

PROJECT NO. 50193045

P-601

SHEET NO.

ABBREVIATIONS - MECHANICAL

Table with 2 columns: Abbreviation and Description. Includes items like (E) EXISTING, AC AIR CONDITIONING, AD ACCESS DOOR, etc.

ABBREVIATIONS - MECHANICAL

Table with 2 columns: Abbreviation and Description. Includes items like H HEIGHT, H2O WATER, HD HEAD, etc.

MECHANICAL GENERAL NEW WORK NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS. MECHANICAL EQUIPMENT SHALL BE SELECTED TO MEET OR EXCEED THE REQUIREMENTS OF THE ENERGY CONSERVATION CODE. MECHANICAL WORK SHALL COMPLY WITH PROJECT SPECIFICATIONS.

MECHANICAL GENERAL DEMOLITION WORK NOTES

- 1. VERIFY PROJECT SITE EXISTING CONDITIONS PRIOR TO BID. EXISTING CONDITIONS INDICATED IN THESE DOCUMENTS ARE APPROXIMATE AND DO NOT INCLUDE EVERY COMPONENT.

MECHANICAL SCHEMATIC SYMBOLS

Table with 2 columns: Symbol and Description. Includes GAUGES/SENSORS, ELECTRONIC CONTROLS, and PNEUMATIC SYMBOLS.

MECHANICAL PIPING SYSTEMS

Table with 2 columns: Symbol and Description. Includes AV ATMOSPHERIC VENT, CD CONDENSATE DRAIN, D DRAIN, etc.

HVAC SYMBOLS

Table with 2 columns: Symbol and Description. Includes GRILLES, SUPPLY AIR DEVICE, RETURN AIR DEVICE, EXHAUST AIR DEVICE, etc.

HVAC SYMBOLS CONTINUED

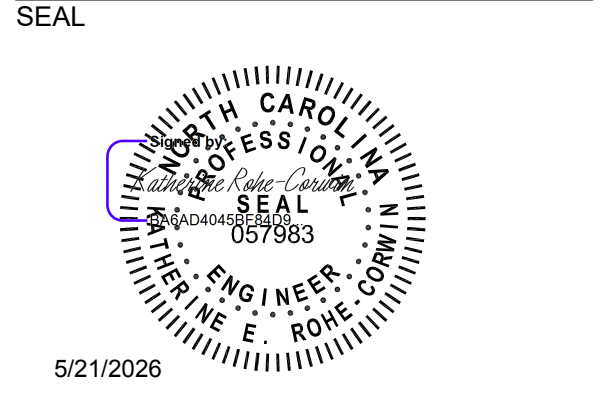
Table with 2 columns: Symbol and Description. Includes DAMPERS, AUTOMATIC/MOTORIZED, MANUAL DAMPER, GRAVITY BACKDRAFT, etc.



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CAMPBELL UNIVERSITY POWELL HALL HVAC AND PLUMBING RENOVATION 84 DAY DORM ROAD, BUJES CREEK, NC 27506 CONSTRUCTION DOCUMENTS



5/21/2026

KEY PLAN table with columns: NO., DESCRIPTION, DATE

SCALE

REVISIONS table with columns: NO., DESCRIPTION, DATE

DRAWN BY: CDB, APPROVED BY: KRC, CHECKED BY: WH, DATE: 05/20/2026

MECHANICAL SYMBOLS & ABBREVIATIONS

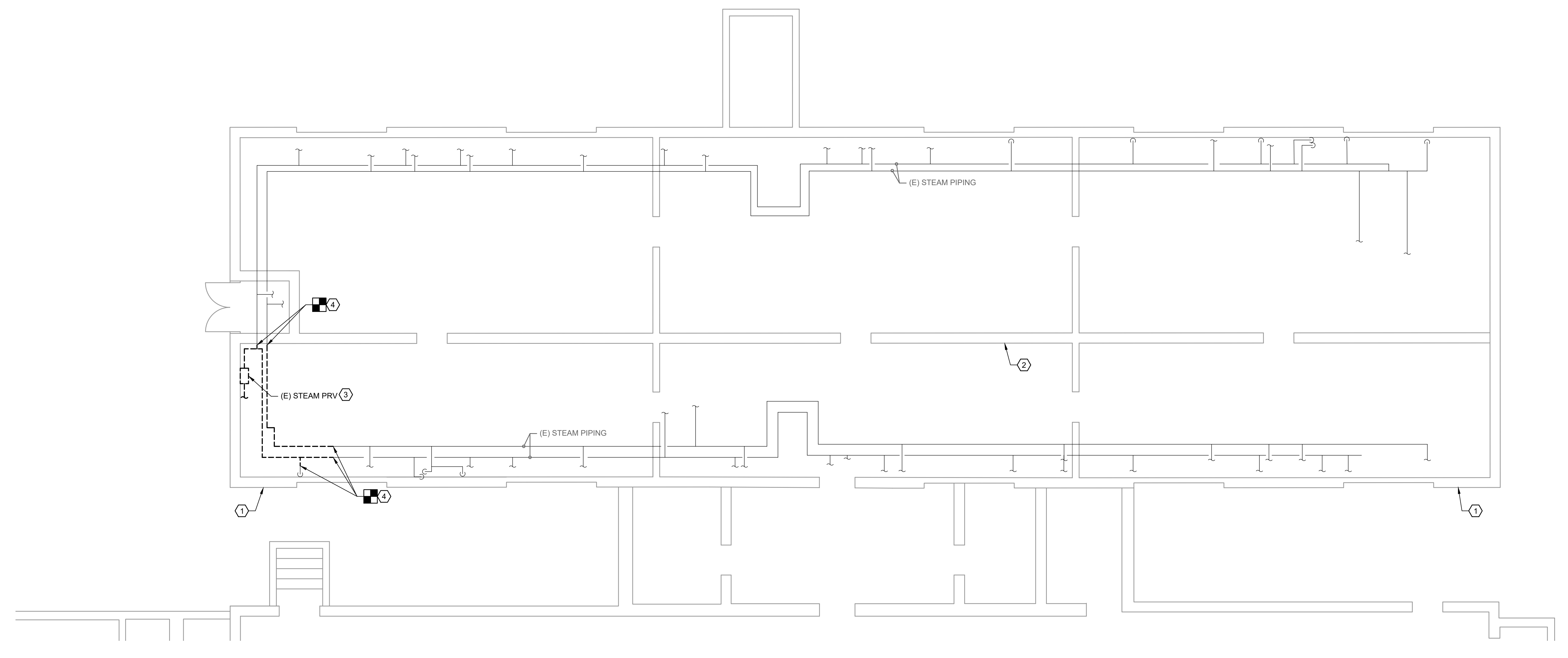
PROJECT NO. 50193045

M-001

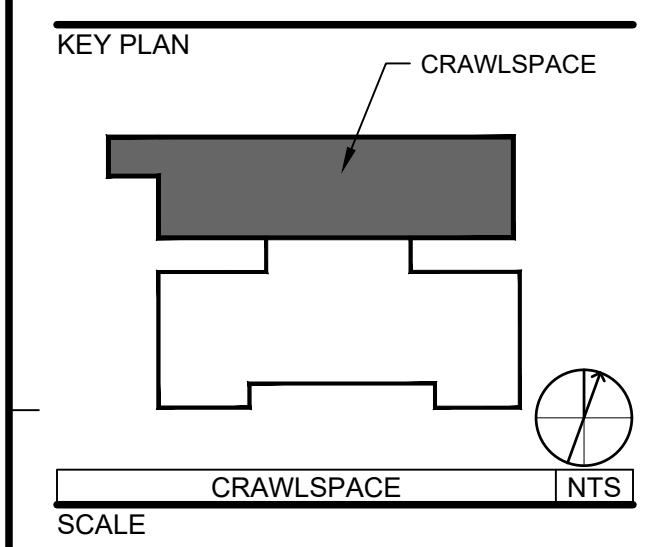
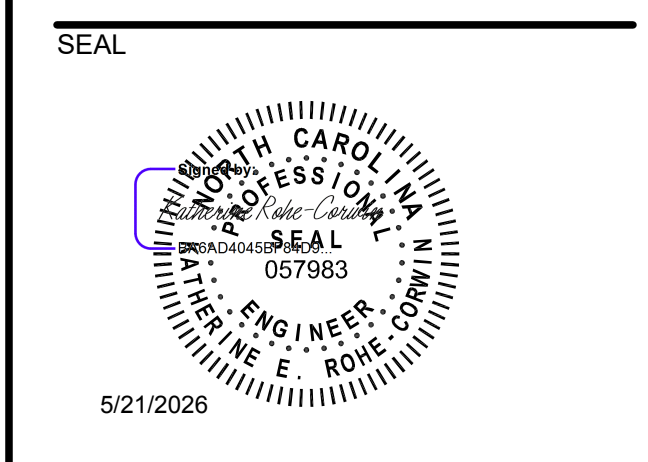
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CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS



1 CRAWLSPACE MECHANICAL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"
0' 2' 4' 8'



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

- STEAM SUPPLY TO POWELL HALL LOCATED OUTSIDE OF BUILDING. COORDINATE WITH CAMPBELL UNIVERSITY FACILITIES TO SHUT OFF STEAM TO BUILDING.
- DEMOLISH STEAM PIPING IN CRAWLSPACE AS NEEDED TO MAKE ROOM FOR NEW CONSTRUCTION.

KEYNOTES:

- CRAWLSPACE ACCESS DOOR LOCATED HERE.
- REMOVE ALL DRYER LINT IN THE VICINITY OF THE ELECTRICAL PANEL. REPAIR AND REPLACE DRY VENT HOSE AS REQUIRED. CONNECT ALL LOOSE VENT HOSES BACK TO VENT CAPS ON EXTERIOR WALL OF CRAWL SPACE.
- STEAM PIPING TO BE ABANDONED IN PLACE. AFTER STEAM SUPPLY TO BUILDING IS SHUT OFF, ALLOW STEAM SYSTEM TO COOL AND DRAIN SYSTEM OF CONDENSATE. DISCONNECT STEAM SUPPLY PIPING FROM PRESSURE REDUCING STATION AND CAP PIPING END.
- DEMOLISH STEAM PIPING FROM POINT INDICATED.

DRAWN BY: CDB
APPROVED BY: KRC
CHECKED BY: WH
DATE: 05/20/2026

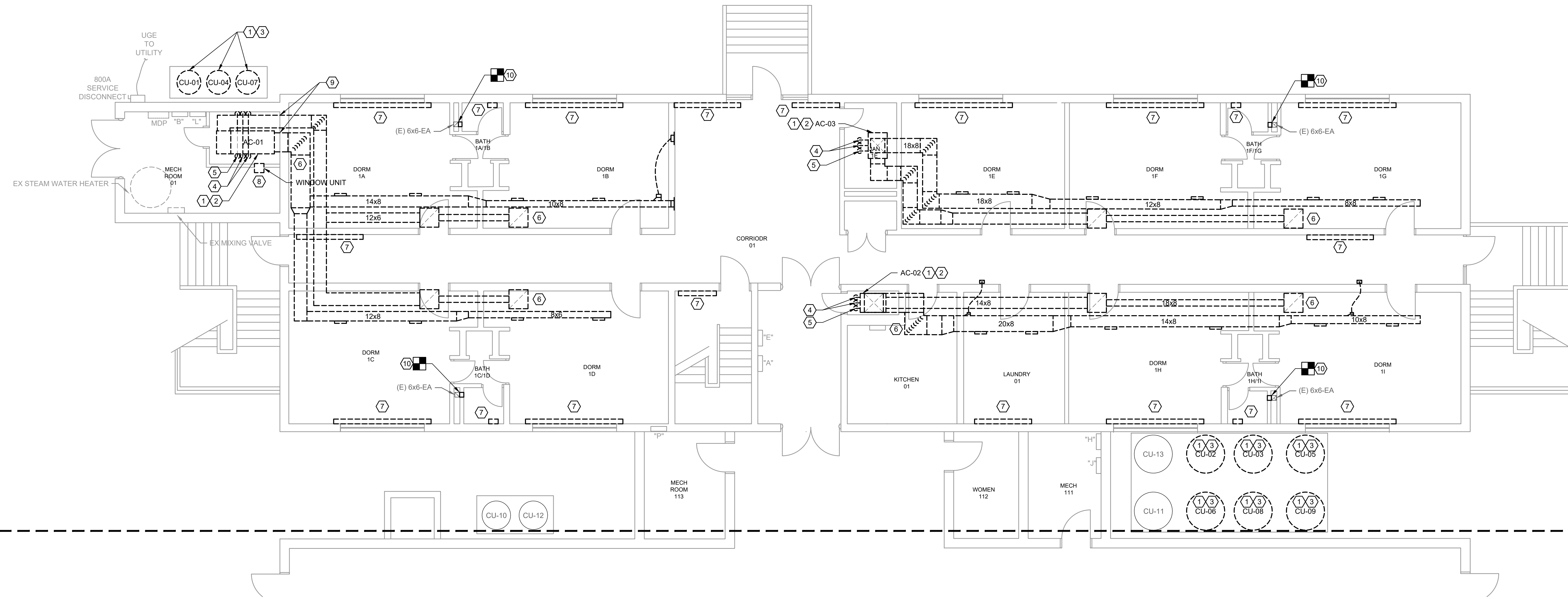
TITLE
CRAWLSPACE MECHANICAL DEMOLITION PLAN

PROJECT NO. 50193045

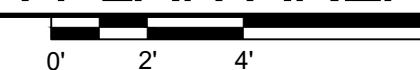
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SHEET NO.

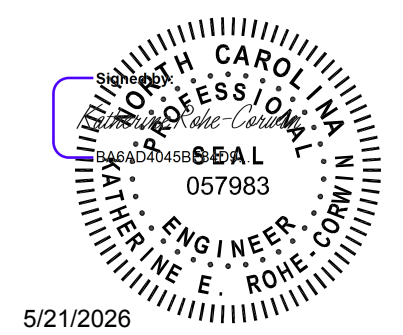
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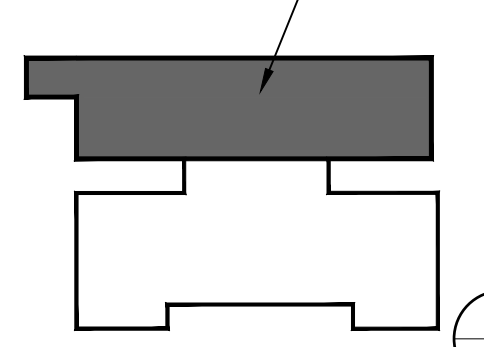
1 FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA A
SCALE: 3/16" = 1'-0"



SEAL



KEY PLAN



FIRST FLOOR AREA A INTS.
SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: CDB
APPROVED BY: KRC
CHECKED BY: WH
DATE: 05/20/2026

TITLE
FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA A

PROJECT NO. 50193045

MD111

SHEET NO.

GENERAL NOTES:

- ACT CEILING AND SOFFIT TO BE DEMOLISHED BY CAMPBELL UNIVERSITY FACILITIES. REMOVE AND STORE CEILING TILES TO PERFORM WORK. COORDINATE CEILING SCOPE WITH CAMPBELL UNIVERSITY.

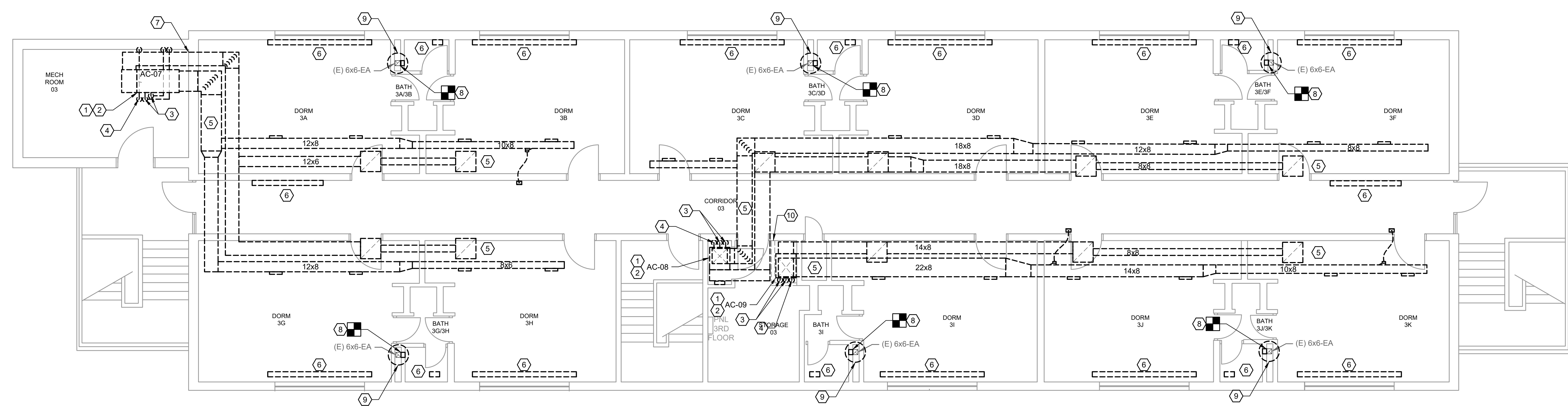
KEYNOTES:

- PRIOR TO DEMOLITION OF SPLIT SYSTEMS, CONTRACTOR SHALL RECOVER AND DISPOSE OF ALL REFRIGERANT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.
- DEMOLISH AIR CONDITIONING UNIT IN ITS ENTIRETY. DISCONNECT DUCT WORK, PIPING AND LINESET. DEMOLISH POWER AND CONTROL EQUIPMENT AND WIRING, INCLUDING BUT NOT LIMITED TO SPACE THERMOSTATS.
- DEMOLISH CONDENSING UNIT IN ITS ENTIRETY. DISCONNECT LINESET. DEMOLISH POWER AND CONTROL EQUIPMENT AND WIRING. EXISTING CONCRETE PAD TO REMAIN.
- DEMOLISH REFRIGERANT LINESET FROM THE INTERIOR UNIT TO THE EXTERIOR UNIT. PATCH AND PAINT WALL PENETRATIONS WITH LIKE MATERIALS.
- DEMOLISH CONDENSATE PIPING FROM POINT INDICATED TO LOCATION OF DISCHARGE TO GRADE. PATCH AND PAINT WALL PENETRATIONS WITH LIKE MATERIALS. REFER TO DETAIL.
- DEMOLISH DUCT WORK IN ITS ENTIRETY.

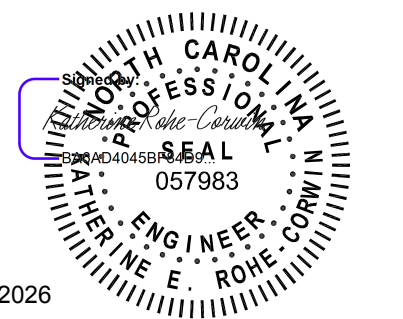
- DEMOLISH STEAM RADIATOR. DEMOLISH STEAM PIPE LEVEL WITH FLOOR SURFACE. PROVIDE FLOOR PLATE TO COVER PIPE. MOUNT FLUSH WITH FLOOR. COORDINATE WITH GENERAL CONTRACTOR TO COVER NEWLY EXPOSED FLOOR AND WALL AREA.
- REMOVE WINDOW UNIT AND RELINQUISH TO CAMPBELL UNIVERSITY FACILITIES.
- PATCH MECHANICAL ROOM MASONRY WALL WITH LIKE MATERIALS. PROVIDE SLEEVES FOR WIRING, PIPING, AND OTHER UTILITIES AS NEEDED TO CREATE SMOKE TIGHT WALL.
- DEMOLISH TOILET ROOM EXHAUST GRILLE AND CAP DUCT. PATCH AND PAINT WALL TO MATCH ADJACENT FINISH.

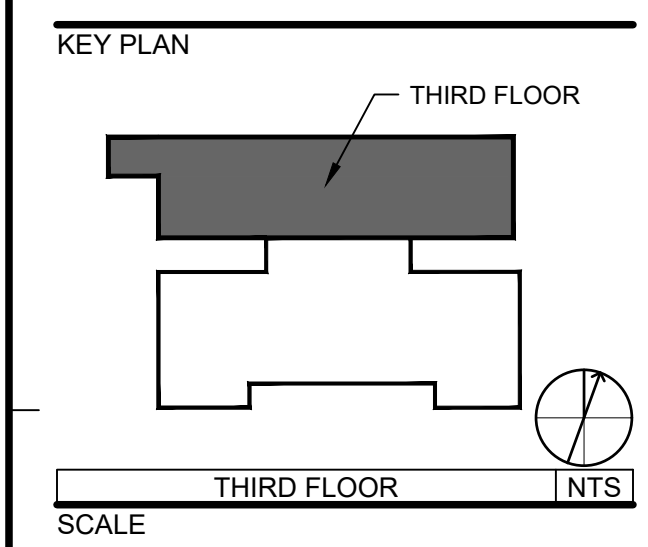
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CAMPBELL UNIVERSITY
POWELL HALL
 HVAC AND PLUMBING RENOVATION
 84 DAY DORM ROAD
 BUJES CREEK, NC 27506
 CONSTRUCTION DOCUMENTS



1 THIRD FLOOR MECHANICAL DEMOLITION PLAN
 SCALE: 3/16" = 1'-0"

SEAL

 5/21/2026



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

- ACT CEILING AND SOFFIT TO BE DEMOLISHED BY CAMPBELL UNIVERSITY FACILITIES. REMOVE AND STORE CEILING TILES TO PERFORM WORK COORDINATE CEILING SCOPE WITH CAMPBELL UNIVERSITY.

KEYNOTES:

- PRIOR TO DEMOLITION OF SPLIT SYSTEMS, CONTRACTOR SHALL RECOVER AND DISPOSE OF ALL REFRIGERANT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.
- DEMOLISH AIR CONDITIONING UNIT IN ITS ENTIRETY. DISCONNECT DUCT WORK, PIPING AND LINESET. DEMOLISH POWER AND CONTROL EQUIPMENT AND WIRING, INCLUDING BUT NOT LIMITED TO SPACE THERMOSTATS.
- DEMOLISH REFRIGERANT LINESET FROM THE INTERIOR UNIT TO THE EXTERIOR UNIT. PATCH AND PAINT WALL PENETRATIONS WITH LIKE MATERIALS. REFER TO DETAIL.
- DEMOLISH CONDENSATE PIPING FROM POINT INDICATED TO LOCATION OF DISCHARGE TO GRADE. PATCH AND PAINT WALL PENETRATIONS WITH LIKE MATERIALS.
- DEMOLISH DUCT WORK IN ITS ENTIRETY.
- DEMOLISH STEAM RADIATOR. DEMOLISH STEAM PIPE LEVEL WITH FLOOR SURFACE. PROVIDE FLOOR PLATE TO COVER PIPE. MOUNT FLUSH WITH FLOOR. COORDINATE WITH GENERAL CONTRACTOR TO COVER NEWLY EXPOSED FLOOR AND WALL.

- PATCH MECHANICAL ROOM MASONRY WALL WITH LIKE MATERIALS. PROVIDE SLEEVES FOR WIRING, PIPING, AND OTHER UTILITIES AS NEEDED TO CREATE SMOKE TIGHT WALL.
- DEMOLISH TOILET ROOM EXHAUST GRILLE AND CAP DUCT. PATCH AND PAINT WALL TO MATCH ADJACENT FINISH.
- DEMOLISH ROOF MOUNTED EXHAUST FAN. DEMO POWER AND CONTROL WIRE AND DISCONNECT. ROOF CURB TO REMAIN FOR REUSE.
- DEMOLISH PLYWOOD ENCLOSURE AROUND AC. PATCH AND PAINT WALL TO MATCH ADJACENT FINISH.

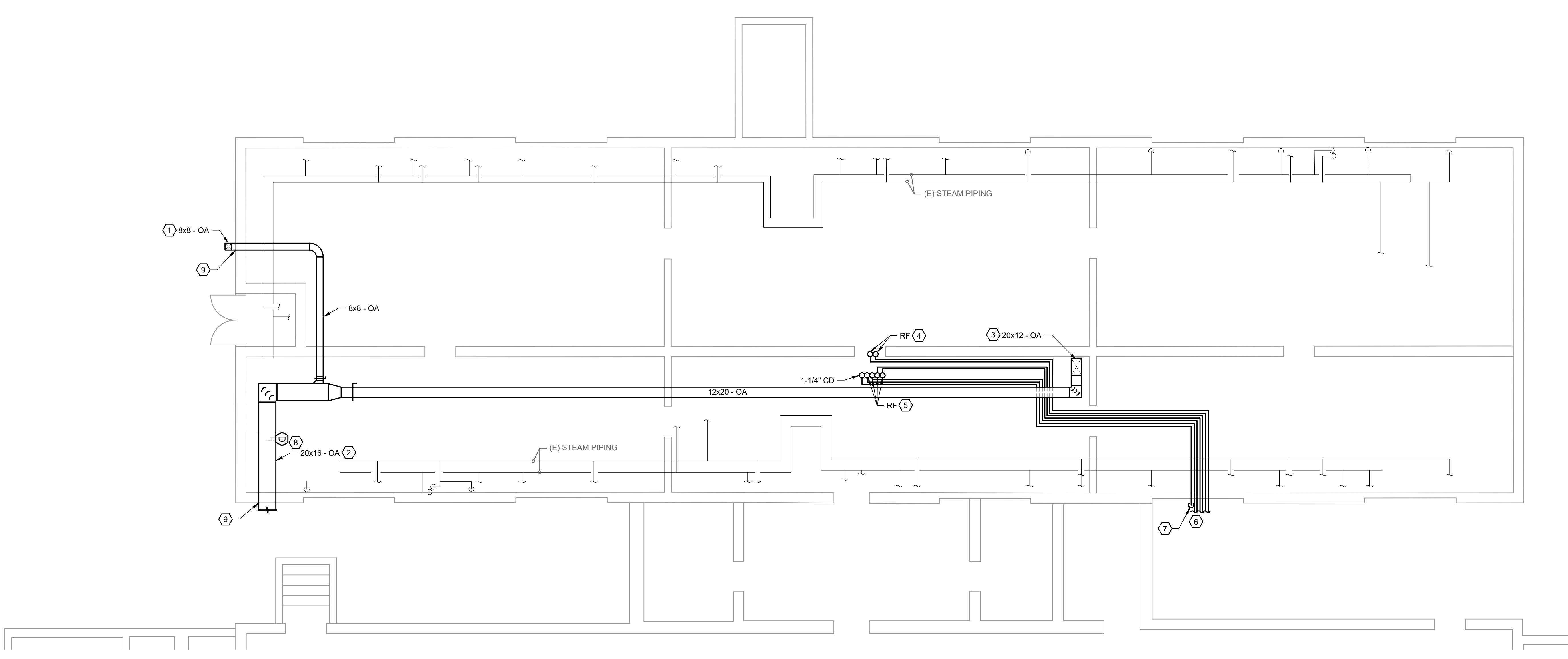
DRAWN BY: CDB
 APPROVED BY: KRC
 CHECKED BY: WH
 DATE: 05/20/2026

TITLE
THIRD FLOOR MECHANICAL DEMOLITION PLAN

PROJECT NO. 50193045
MD131
 SHEET NO.

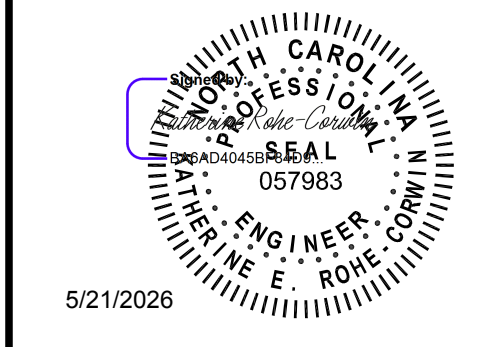


CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS



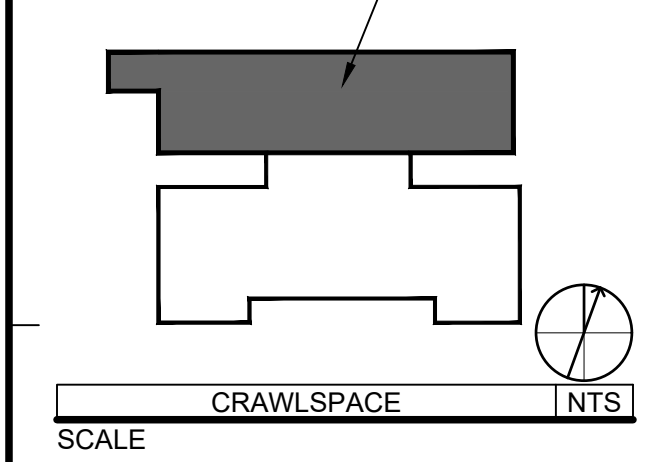
1 CRAWLSPACE MECHANICAL NEW WORK PLAN
SCALE: 3/16" = 1'-0"

SEAL



5/21/2026

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

1. DEMOLISH STEAM AND CONDENSATE PIPING IN CRAWLSPACE AS NEEDED TO MAKE ROOM FOR NEW CONSTRUCTION.

KEYNOTES:

1. OA DUCT UP TO FLOOR ABOVE. COORDINATE WITH GENERAL CONTRACTOR FOR FLOOR PENETRATION.
2. INSULATED OA DUCT FROM DOAS UNIT. PROVIDE HANGER SUPPORTS AND TRANSITIONS TO ROUTE THROUGH CRAWLSPACE TO DUCT RISERS.
3. OA DUCT UP TO 1ST FLOOR.
4. UP TO FCU-1.
5. UP TO FCU-2 AND FCU-3.
6. PROVIDE REFRIGERANT LINESET FROM CONDENSING UNITS TO INDOOR UNITS. SEE FIRST FLOOR FOR CONTINUATION.
7. DISCHARGE CONDENSATE 6" ABOVE GRADE USING EXISTING CRAWLSPACE PENETRATIONS FROM DEMOLISHED UNITS. PROVIDE SPLASH BLOCK.
8. PROVIDE DUCT SMOKE DETECTOR AND HARDWIRE TO DOAS FOR SMOKE SHUTDOWN. PROVIDE WITH 12x12 HINGED ACCESS DOOR.

EXTERIOR WALL PENETRATION. COORDINATE WITH GENERAL CONTRACTOR FOR PENETRATION.

9. LOCATE PENETRATION ON EACH FLOOR AND REVIEW WITH OWNER PRIOR TO CUTTING.

DRAWN BY CDB

APPROVED BY KRC

CHECKED BY WH

DATE 05/20/2026

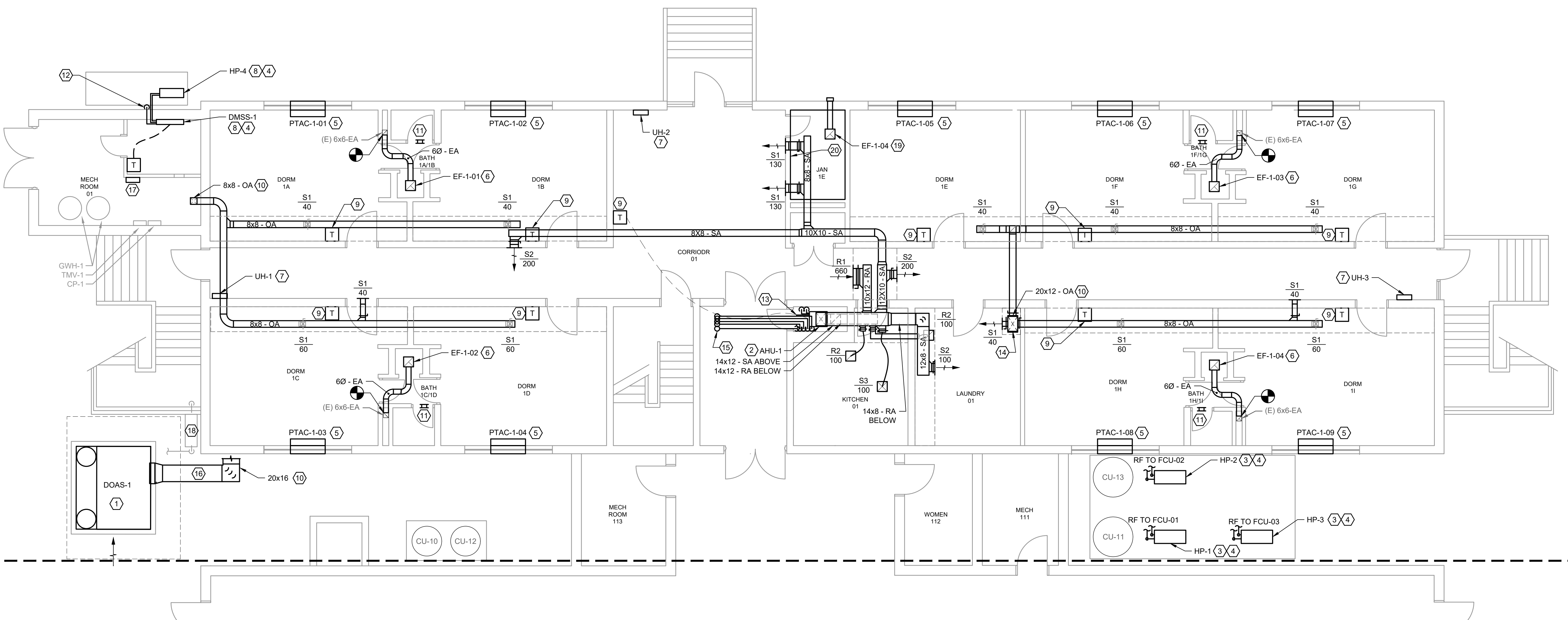
TITLE
CRAWLSPACE MECHANICAL NEW WORK PLAN

PROJECT NO. 50193045

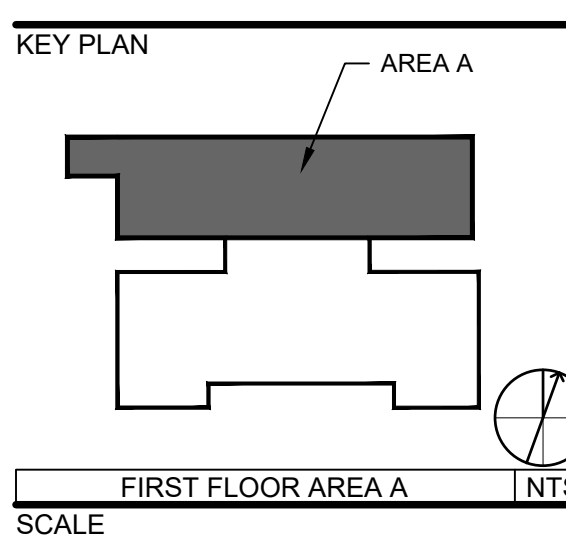
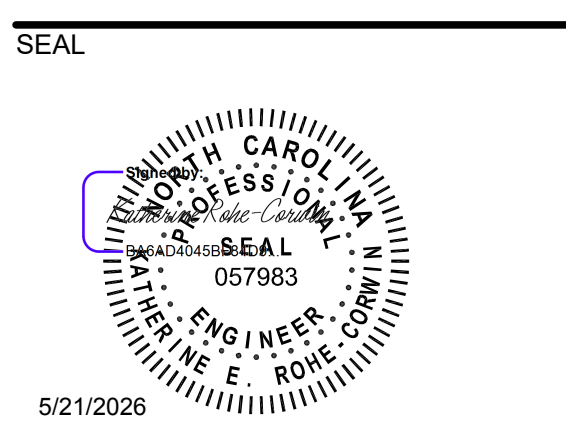
M-101

SHEET NO.

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1 FIRST FLOOR MECHANICAL NEW WORK PLAN AREA A
SCALE: 3/16" = 1'-0"
0' 2' 4' 8'



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

- COORDINATE WITH GENERAL CONTRACTOR FOR PENETRATIONS, DUCT SHAFTS/SOFFITS, AND CEILINGS.

KEYNOTES:

- PROVIDE DOAS. PROVIDE POWER AND CONTROL WIRING AND DISCONNECTING MEANS. LOCATE DOAS TO MEET ALL EQUIPMENT CLEARANCES. PROVIDE 6" DEEP CONCRETE PAD WITH CRUSHED GRAVEL BASE. PAD SHALL BE 6" LONGER AND WIDER THAN UNIT FOOT PRINT. PROVIDE OA DUCT, ROUTE TO CRAWLSPACE AS SHOWN. PROVIDE BRICK LINTEL. SEE DETAILS FOR MORE INFORMATION.
- PROVIDE FAN COIL UNIT. PROVIDE DUCTWORK COMPLETE WITH INSULATION, SUPPORTS, AND ACCESSORIES AND ROUTE AS SHOWN.
- PROVIDE CONDENSING UNIT. MOUNT TO EXISTING CONCRETE PAD. PROVIDE POWER AND CONTROL WIRE AND DISCONNECTING MEANS.
- PROVIDE REFRIGERANT PIPING LINESET BETWEEN CORRESPONDING INDOOR AND OUTDOOR UNITS. PROVIDE WITH 1-1/2" ELASTOMERIC CLOSED CELL INSULATION. PROVIDE LINESET COVER FOR EXPOSED LINESET.
- PROVIDE PTAC WITH WALL SLEEVE AND SUBBASE. INSTALL

- PER MANUFACTURERS INSTRUCTIONS. COORDINATE WITH GENERAL CONTRACTOR FOR WALL PENETRATION LINTEL.
- PROVIDE EXHAUST FAN. ROUTE DUCT TO EXISTING DUCT RISER LOCATED IN PLUMBING CHASE.
- PROVIDE UNIT HEATER WITH INTEGRAL THERMOSTAT. SURFACE MOUNT ON CONCRETE BLOCK WALL PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE DUCTLESS MINI SPLIT INDOOR AND OUTDOOR UNIT. PROVIDE POWER AND CONTROL WIRING AND DISCONNECTING MEANS. INDOOR UNIT SHALL BE MOUNTED 6" AFF TO BOTTOM OF UNIT. OUTDOOR UNIT SHALL BE MOUNTED ON EXISTING CONCRETE PAD.
- PROVIDE THERMOSTAT AT 48" AFF. PROVIDE WIRE-MOLD FOR CONTROL WIRING EXPOSED BENEATH THE CEILING.
- OA DUCT DOWN TO CRAWLSPACE. SEE SHEET M-101 FOR CONTINUATION. OA DUCT UP TO 2ND FLOOR. SEE SHEET M-121 FOR CONTINUATION.

- PROVIDE OPENING ABOVE TOILET DOOR BY REMOVING THE WOOD PANEL TRANSOM. OR PROVIDE 8x8 TRANSFER GRILLE CENTERED OVER TOILET ROOM FLOOR. 7'-6" AFF.
- DISCHARGE CONDENSATE 6-INCHES ABOVE GRADE. PROVIDE SPLASH BLOCK.
- ROUTE CONDENSATE TO CONDENSATE RISER FROM FCU-2,3. PROVIDE WYE INTO RISER. ROUTE CONDENSATE DOWN TO CRAWLSPACE. PROVIDE ESCUTCHEON TO COVER FLOOR PENETRATION.
- PROVIDE SUPPLY GRILLE AT 60" AFF TO BOTTOM OF GRILLE. PROVIDE 6x6 ACCESS DOOR BELOW SUPPLY GRILLE FOR ACCESS TO VOLUME DAMPER. AFTER ALL BRANCHES, TRANSITION TO 18x12. SEE SHEET M-121 FOR CONTINUATION. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE DUCT CHASE AND ACCESS DOOR IN CHASE.
- UP TO FCU-2,3. ROUTE ABOVE CEILING.
- PROVIDE EXTERIOR OA DUCT WITH ALUMINUM JACKETING.

- PROVIDE NETWORK CONTROL PANEL. PROVIDE 120V POWER AND DATA WIRING.
- GAS METER. REFER TO PLUMBING PLANS FOR MORE INFORMATION.
- PROVIDE EXHAUST FAN. PROVIDE POWER AND CONTROL WIRE. PROVIDE EXHAUST DUCT. ROUTE TO EXTERIOR WALL AND PROVIDE WALL VENT WITH BIRD SCREEN AND BACKDRAFT DAMPER.
- PROVIDE FAN SWITCH ADJACENT TO LIGHT SWITCH. MOUNT AT 48" AFF.

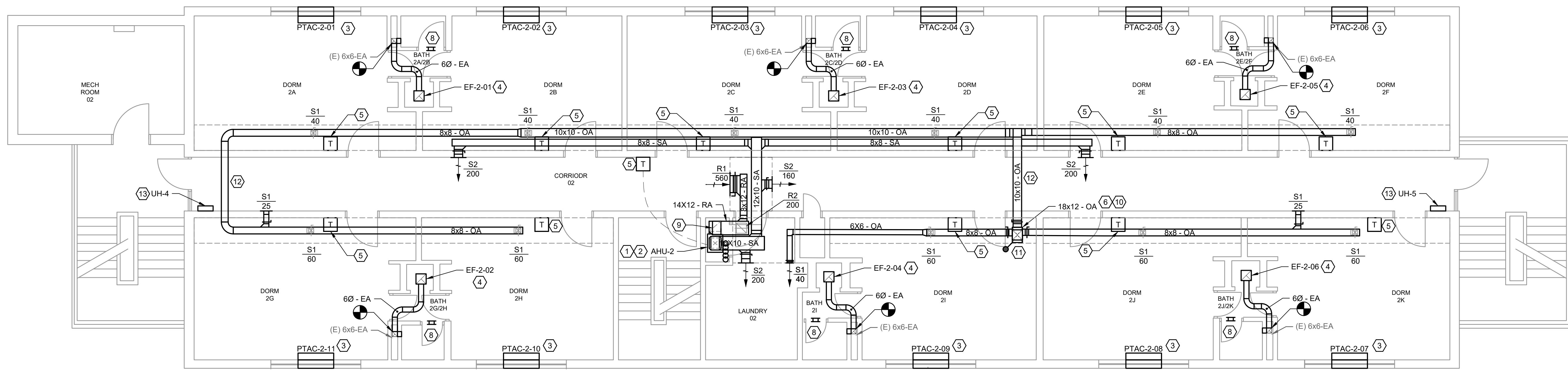
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APPROVED BY: KRC
CHECKED BY: WH
DATE: 05/20/2026

FIRST FLOOR MECHANICAL NEW WORK PLAN AREA A

PROJECT NO. 50193045

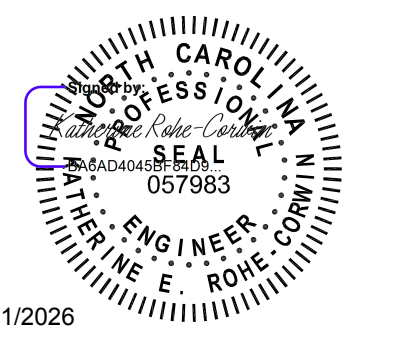
M-111

SHEET NO.



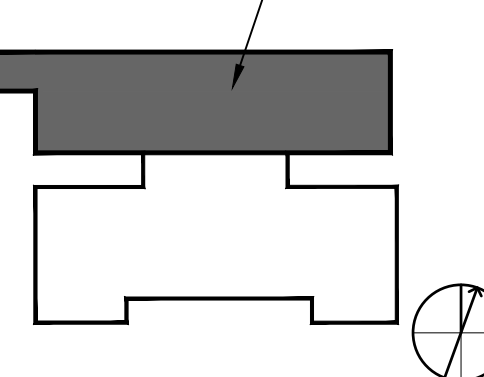
1 SECOND FLOOR MECHANICAL NEW WORK PLAN
SCALE: 3/16" = 1'-0"

SEAL



5/21/2026

KEY PLAN SECOND FLOOR



SCALE INTS.

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY: CDB
 APPROVED BY: KRC
 CHECKED BY: WH
 DATE: 05/20/2026

TITLE
SECOND FLOOR MECHANICAL NEW WORK PLAN

PROJECT NO. 50193045

M-121

SHEET NO.

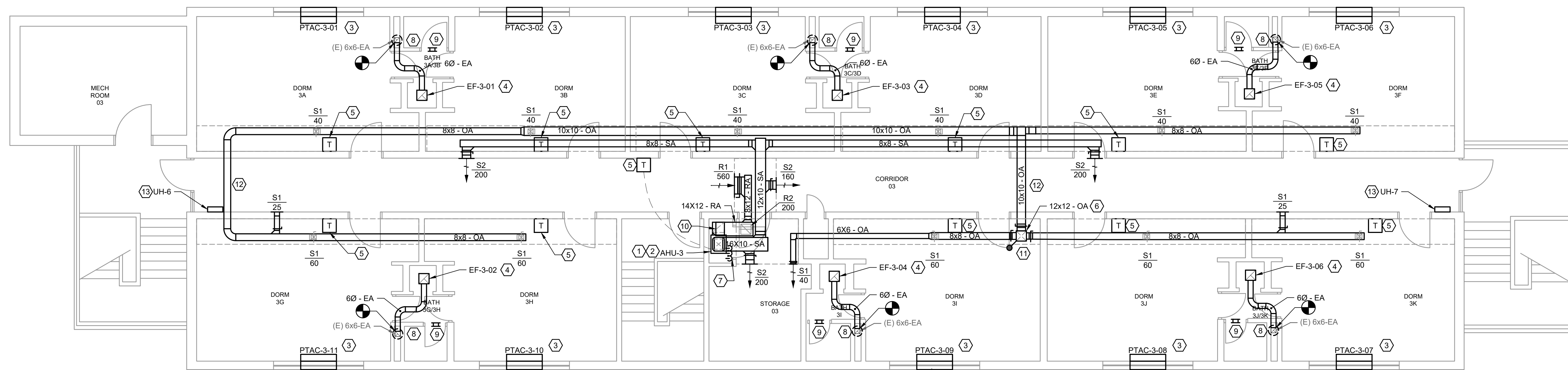
GENERAL NOTES:

KEYNOTES:

1. PROVIDE FAN COIL UNIT. PROVIDE DUCT WORK FROM FAN COIL UNIT TO SPACES SERVED. PROVIDE FLEXIBLE DUCT CONNECTIONS AND TRANSITIONS AS NECESSARY.
2. PROVIDE REFRIGERANT PIPING LINESET BETWEEN CORRESPONDING INDOOR AND OUTDOOR UNITS. PROVIDE WITH 1-1/2" ELASTOMERIC CLOSED CELL INSULATION. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTION.
3. PROVIDE PTAC. INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
4. PROVIDE EXHAUST FAN. ROUTE DUCT TO EXISTING DUCT RISER. LOCATED IN PLUMBING CHASE.
5. PROVIDE THERMOSTAT AT 48" AFF. PROVIDE WIRE-MOLD FOR CABLE EXPOSED BENEATH THE CEILING.
6. DOWN TO 1ST FLOOR & UP TO 3RD FLOOR.
7. ROUTE SHALL WYE INTO CONDENSATE FROM FCU-3. ROUTE DOWN TO CRAWLSPACE USING EXISTING CONDENSATE ROUTE. PROVIDE ESCUTCHEON TO COVER

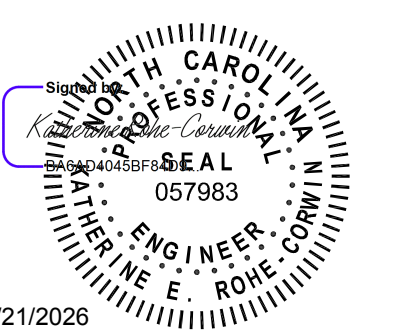
8. PROVIDE 8x8 TRANSFER GRILLE CENTERED OVER TOILET ROOM DOOR, 7'-6" AFF.
9. RA DUCT 14X12 FROM UNIT, TRANSITION TO 16X10.
10. AFTER ALL BRANCHES, TRANSITION TO 12X12. SEE SHEET M-131 FOR CONTINUATION.
11. PROVIDE FIRE DAMPER WITH ACCESS DOOR AT FLOOR PENETRATION FOR DUCT RISER. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE DUCT CHASE AND ACCESS DOOR IN CHASE.
12. DUCT ROUTED UP BETWEEN JOISTS.
13. PROVIDE UNIT HEATER WITH INTEGRAL THERMOSTAT. SURFACE MOUNT ON CONCRETE BLOCK WALL PER MANUFACTURER'S INSTRUCTIONS.

P:\0193045\CAD\MCHANICAL\0193045 M-121 SECOND FLOOR MECHANICAL NEW WORK PLAN.DWG



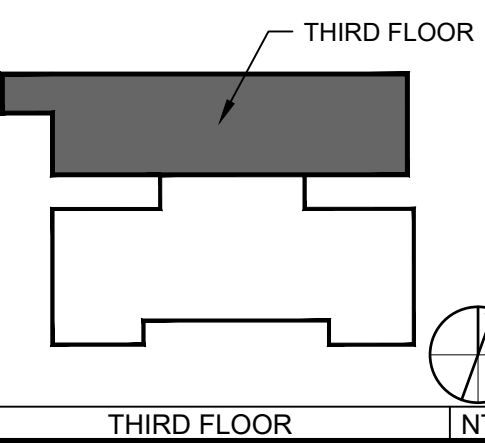
1 THIRD FLOOR MECHANICAL NEW WORK PLAN
SCALE: 3/16" = 1'-0"

SEAL



5/21/2026

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: CDB
APPROVED BY: KRC
CHECKED BY: WH
DATE: 05/20/2026

TITLE
THIRD FLOOR MECHANICAL NEW WORK PLAN

PROJECT NO. 50193045

M-131

SHEET NO.

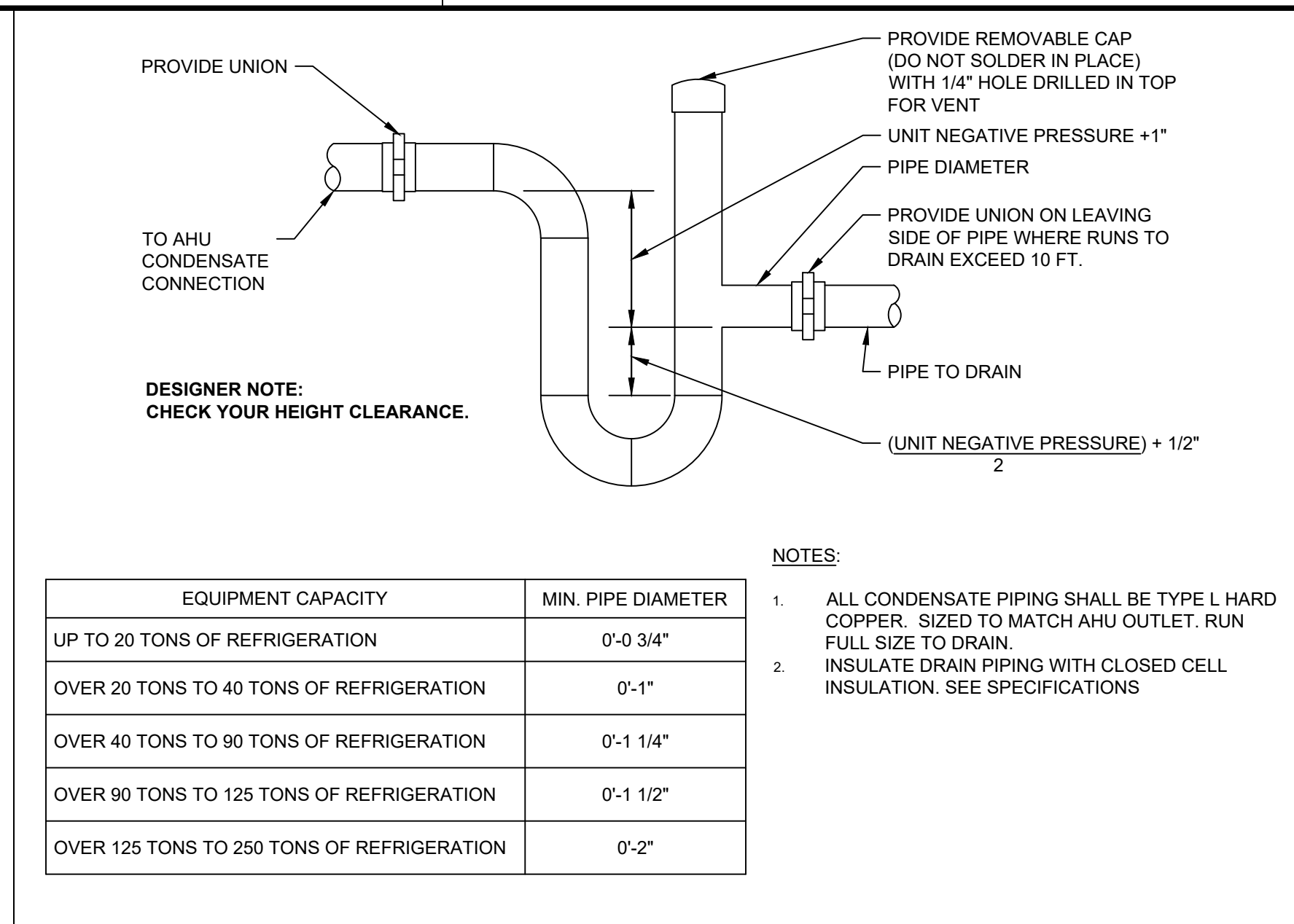
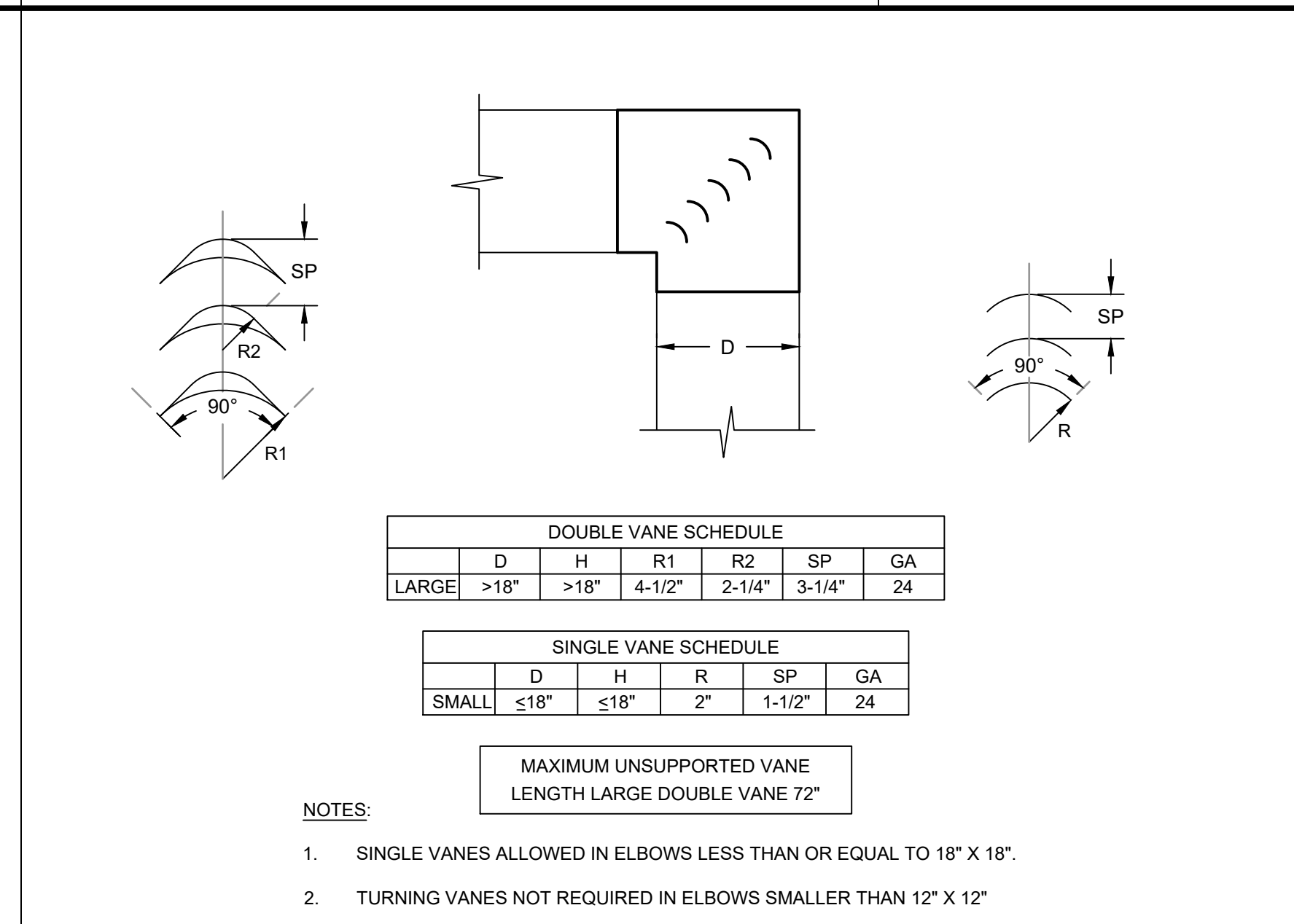
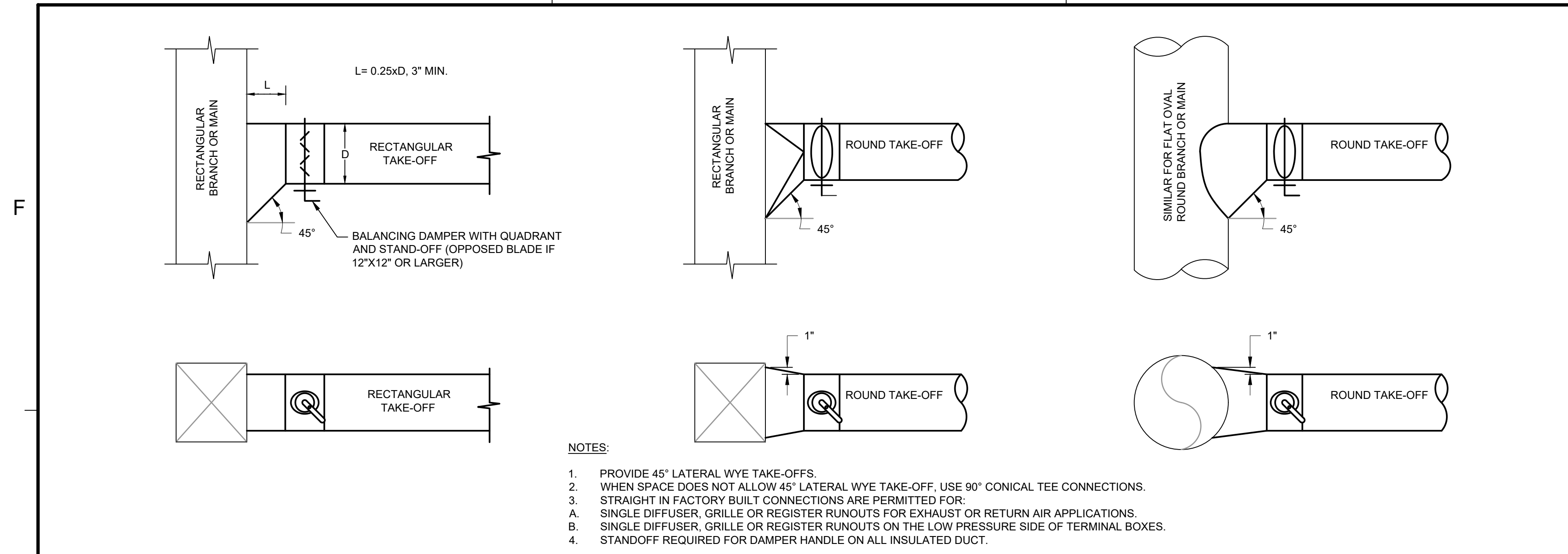
GENERAL NOTES:

KEYNOTES:

1. PROVIDE FAN COIL UNIT. PROVIDE DUCT WORK FROM FAN COIL UNIT TO SPACES SERVED. PROVIDE FLEXIBLE DUCT CONNECTIONS AND TRANSITIONS AS NECESSARY.
2. PROVIDE REFRIGERANT PIPING LINES BETWEEN CORRESPONDING INDOOR AND OUTDOOR UNITS. PROVIDE WITH 1-1/2" ELASTOMERIC CLOSED CELL INSULATION. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTION.
3. PROVIDE PTAC. INSTALL PER MANUFACTURERS INSTRUCTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
4. PROVIDE EXHAUST FAN. ROUTE DUCT TO EXISTING DUCT RISER LOCATED IN PLUMBING CHASE.
5. PROVIDE THERMOSTAT AT 48" AFF. PROVIDE WIRE-MOLD FOR CABLE EXPOSED BENEATH THE CEILING.
6. DOWN TO 2ND FLOOR.
7. ROUTE CONDENSATE DOWN EXISTING FLOOR PENETRATION. PROVIDE ESCUTCHEON TO COVER FLOOR PENETRATION.

8. PROVIDE GRAVITY VENT ON ROOF. CONNECT TO EXISTING EXHAUST-DUCT RISER. MOUNT ON EXISTING ROOF CURB.
9. PROVIDE 6x6 TRANSFER GRILLE CENTERED OVER TOILET ROOM DOOR, 7'-6" AFF.
10. RA DUCT 14X12 FROM UNIT. TRANSITION TO 16X10.
11. PROVIDE FIRE DAMPER WITH ACCESS DOOR AT FLOOR PENETRATION FOR DUCT RISER. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE DUCT CHASE AND ACCESS DOOR IN CHASE.
12. DUCT ROUTED UP BETWEEN JOISTS.
13. PROVIDE UNIT HEATER WITH INTEGRAL THERMOSTAT. SURFACE MOUNT ON CONCRETE BLOCK WALL PER MANUFACTURER'S INSTRUCTIONS.

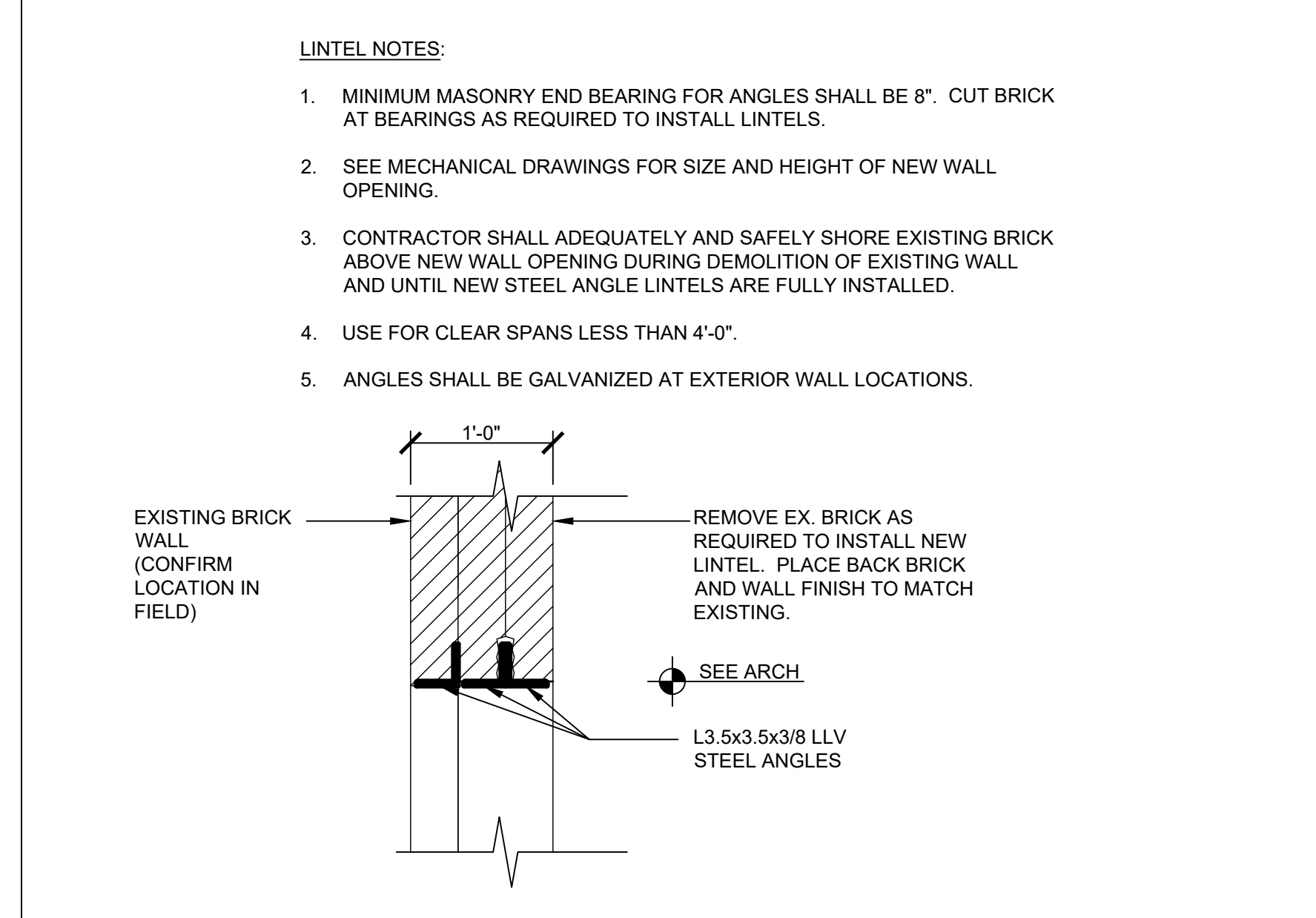
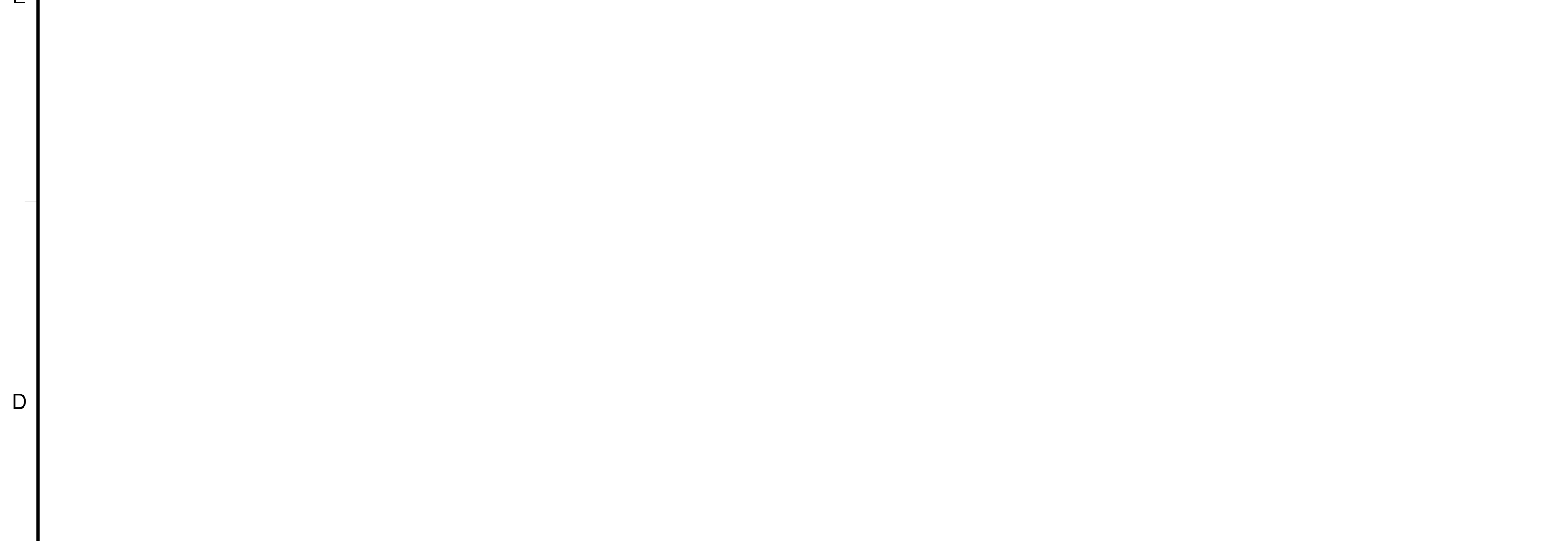
P:\0193045\CAD\MCHANICAL\0193045 M-131 THIRD FLOOR MECHANICAL NEW WORK PLAN.DWG



1 DUCT 45° LATERAL TAKE-OFF SCALE: NTS 233113-005

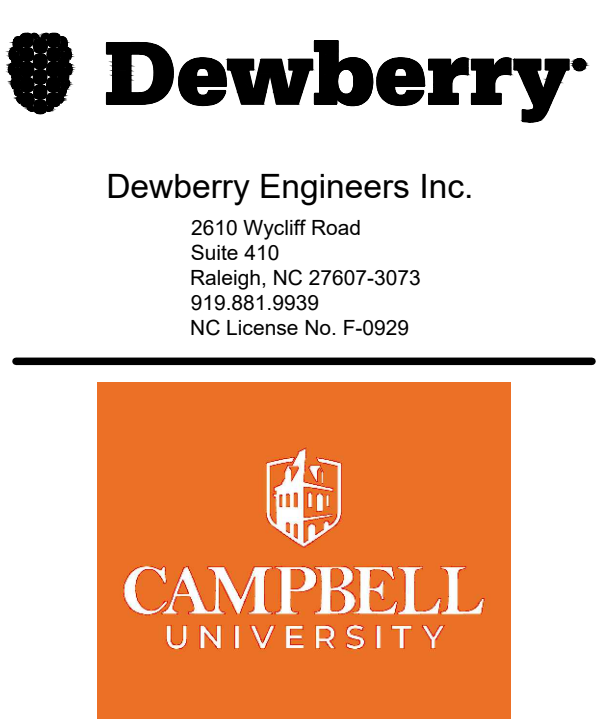
2 DUCT MITERED 90° ELBOW SCALE: NTS 233113-007

3 AHU DRAIN TRAP - DRAW THROUGH SCALE: NTS 237300-001

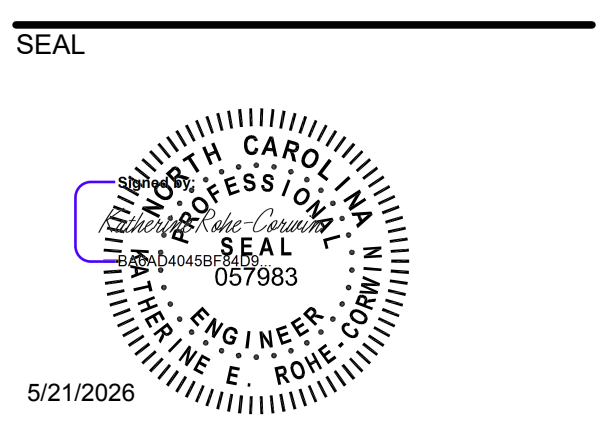


4 BRICK LINTELS SCALE: NTS 237300-001

5 BRICK LINTELS SCALE: NTS 237300-001



CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS



KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE
DRAWN BY CDB
APPROVED BY KRC
CHECKED BY WH
DATE 05/20/2026
TITLE

DETAILS

PROJECT NO. 50193045

M-502

SHEET NO.

DEDICATED OUTDOOR AIR UNIT SCHEDULE

Table with columns for MARK, MANUFACTURER / MODEL, TYPE, DRIVE TYPE, AIR FLOW, CAPACITY, CONNECT, SINGLE FAN, DEHUMIDIFICATION, COOLING CAPACITY, HEATING CAPACITY, REHEAT CAPACITY, ELECTRICAL, MAX SOUND LEVEL, DIMENSIONS AND WEIGHT, and NOTES.

NOTES:

- 1. REFER TO SECTION 237433 FOR ADDITIONAL REQUIREMENTS. REFER TO UNIT DETAILS AND DIAGRAMS FOR COMPLETE CONFIGURATION AND DIMENSIONAL DETAILS.
2. MAX. COOLING COIL FACE VELOCITY = 500 FPM.
3. PROVIDE SINGLE-POINT ELECTRICAL CONNECTION AND FUSED-DISCONNECT.
4. PROVIDE SCR CONTROLLER FOR ELECTRIC HEATING COILS.
5. PROVIDE LOW AMBIENT COOLING OPERATION DOWN TO -20 DEG F. OUTFIT WITH HIGH OUTPUT CONDENSING FANS AND LOW AMBIENT REFRIGERANT CIRCUIT.
6. PROVIDE HAIL GUARD FOR CONDENSING COIL.
7. PROVIDE CONCRETE PAD THAT IS 6-INCHES LONGER AND WIDER THAN UNIT FOOTPRINT AND 6-INCHES DEEP WITH 4-INCHES DEEP CRUSHED STONE BASE.
8. PROVIDE MODULATING INVERTER COMPRESSOR CIRCUIT FOR MAINTAINING DEWPOINT CONTROL OF 50°F WITH HOT GAS REHEAT TO MAINTAIN 65°F.

FAN COIL UNIT SCHEDULE

Table with columns for MARK, TYPE, MANUFACTURER / MODEL, SUPPLY AIR FAN, COOLING COIL, REHEAT COIL, FILTRATION, and DIMENSIONS AND WEIGHT.

NOTES:

- 1. REFER TO SECTION 238219 FOR ADDITIONAL REQUIREMENTS.
2. MAX. COOLING COIL FACE VELOCITY = 500 FPM.
3. PROVIDE MOTOR-RATED DISCONNECT SWITCH.
4. PROVIDE COMBINATION MOTOR-STARTER AND DISCONNECT SWITCH.
5. PROVIDE WIRE THERMOSTAT. REMOTE THERMOSTAT NOT ACCEPTABLE.
6. REFER TO CONDENSING UNIT SCHEDULE FOR ASSOCIATED DX COIL CONDENSING UNIT.

CONDENSING UNIT SCHEDULE

Table with columns for MARK, SERVICE, TYPE, MANUFACTURER / MODEL, COOLING, HEAT PUMP, NUMBER OF COMP., MAX SOUND, ELECTRICAL, and DIMENSIONS AND WEIGHT.

NOTES:

- 1. REFER TO SECTION 238223 FOR ADDITIONAL REQUIREMENTS.
2. SOUND PERFORMANCE IS BASED ON SOUND PRESSURE LEVELS MEASURED AT 3 FEET FROM UNIT AT FULL CAPACITY IN ACCORDANCE WITH AHRI 270.
3. ALL UNITS SHALL MEET OR EXCEED SEASONAL ENERGY EFFICIENCY RATIO (SEER) FOR NOMINAL COOLING SIZES LESS THAN 65,000 BTUH.
4. HEAT PUMPS SHALL MEET OR EXCEED HEATING SEASONAL PERFORMANCE FACTOR (HSPF) FOR NOMINAL COOLING SIZES LESS THAN 65,000 BTUH.
5. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE FUSED-DISCONNECT SWITCH.
7. PROVIDE LOW AMBIENT TEMPERATURE OPTION.

FIRST FLOOR PACKAGE TERMINAL HEAT PUMP SCHEDULE

Table with columns for MARK, MANUFACTURER / MODEL, REFRIG. TYPE, REFRIG. CHARGE, SUPPLY AIR FAN, COOLING COIL, HEATING COIL, HEATING COIL, DIMENSIONS AND WEIGHT, and NOTES.

NOTES:

- 1. PROVIDE UNIT BY ONE OF THE FOLLOWING MANUFACTURERS: FRIEDRICH OR AMANA.
2. PROVIDE MANUFACTURER UNIT SUBBASE WITH INTEGRAL MOTOR-RATED DISCONNECT SWITCH.
3. PROVIDE WITH MANUFACTURER WALL SLEEVE. COORDINATE WALL SLEEVE WITH WALL THICKNESS EAST EACH LOCATION. WALL THICKNESS VARIES.
4. PROVIDE WALL-MOUNTED, WIRED, NON-PROGRAMMABLE THERMOSTAT. WIRELESS THERMOSTATS ARE NOT ACCEPTABLE.
5. PROVIDE ARCHITECTURAL EXTERIOR GRILLE. COORDINATE COLOR WITH OWNER.
6. PROVIDE 2 EXTRA FRONT-END AIR FILTERS FOR EACH UNIT. DELIVER TO OWNER PRIOR TO PROJECT CLOSEOUT.

SECOND FLOOR PACKAGE TERMINAL HEAT PUMP SCHEDULE

Table with columns for MARK, MANUFACTURER / MODEL, REFRIG. TYPE, REFRIG. CHARGE, SUPPLY AIR FAN, COOLING COIL, HEATING COIL, HEATING COIL, DIMENSIONS AND WEIGHT, and NOTES.

NOTES:

- 1. PROVIDE UNIT BY ONE OF THE FOLLOWING MANUFACTURERS: FRIEDRICH OR AMANA.
2. PROVIDE MANUFACTURER UNIT SUBBASE WITH INTEGRAL MOTOR-RATED DISCONNECT SWITCH.
3. PROVIDE WITH MANUFACTURER WALL SLEEVE. COORDINATE WALL SLEEVE WITH WALL THICKNESS EAST EACH LOCATION. WALL THICKNESS VARIES.
4. PROVIDE WALL-MOUNTED, WIRED, NON-PROGRAMMABLE THERMOSTAT. WIRELESS THERMOSTATS ARE NOT ACCEPTABLE.
5. PROVIDE ARCHITECTURAL EXTERIOR GRILLE. COORDINATE COLOR WITH OWNER.
6. PROVIDE 2 EXTRA FRONT-END AIR FILTERS FOR EACH UNIT. DELIVER TO OWNER PRIOR TO PROJECT CLOSEOUT.

GRAVITY ROOF VENTILATOR SCHEDULE

Table with columns for MARK, TYPE, MANUFACTURER / MODEL, AIR FLOW, APD, VENT. SIZE, THROAT SIZE, MAX HEIGHT, DAMPER TYPE, and NOTES.

NOTES:

- 1. REFER TO SECTION 233723 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE FACTORY-FABRICATED ROOF CURB. COORDINATE EXACT LOCATION AND SIZE OF EXISTING ROOF CURBS PRIOR TO ORDERING. MATCH EXISTING CURB SIZE OR PROVIDE CURB ADAPTER.

THIRD FLOOR PACKAGE TERMINAL HEAT PUMP SCHEDULE

Table with columns for MARK, MANUFACTURER / MODEL, REFRIG. TYPE, REFRIG. CHARGE, SUPPLY AIR FAN, COOLING COIL, HEATING COIL, HEATING COIL, DIMENSIONS AND WEIGHT, and NOTES.

NOTES:

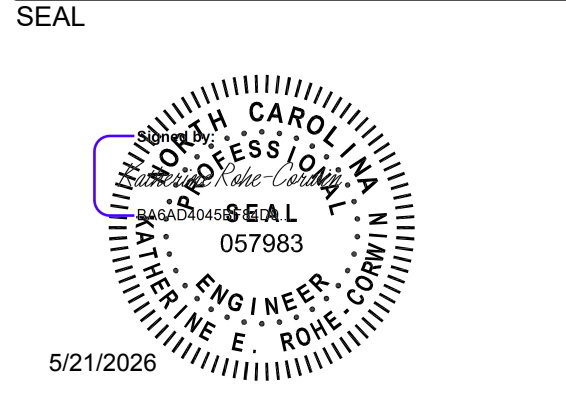
- 1. PROVIDE UNIT BY ONE OF THE FOLLOWING MANUFACTURERS: FRIEDRICH OR AMANA.
2. PROVIDE MANUFACTURER UNIT SUBBASE WITH INTEGRAL MOTOR-RATED DISCONNECT SWITCH.
3. PROVIDE WITH MANUFACTURER WALL SLEEVE. COORDINATE WALL SLEEVE WITH WALL THICKNESS EAST EACH LOCATION. WALL THICKNESS VARIES.
4. PROVIDE WALL-MOUNTED, WIRED, NON-PROGRAMMABLE THERMOSTAT. WIRELESS THERMOSTATS ARE NOT ACCEPTABLE.
5. PROVIDE ARCHITECTURAL EXTERIOR GRILLE. COORDINATE COLOR WITH OWNER.
6. PROVIDE 2 EXTRA FRONT-END AIR FILTERS FOR EACH UNIT. DELIVER TO OWNER PRIOR TO PROJECT CLOSEOUT.



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CAMPBELL UNIVERSITY
POWELL HALL
HVAC AND PLUMBING RENOVATION
84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS



KEY PLAN

SCALE

Table with columns for NO., DESCRIPTION, DATE

DRAWN BY: CDB
APPROVED BY: KRC
CHECKED BY: WH
DATE: 05/20/2026

SCHEDULES

PROJECT NO. 50193045

M-601

SHEET NO.

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FAN SCHEDULE

Table with columns: MARK, TYPE, MANUFACTURER / MODEL, AIR FLOW (CFM), ESP (IN WG), EC MOTOR (Y or N), DRIVE TYPE, SPEED (RPM), BRAKE MOTOR (HP), NOMINAL MOTOR (HP), MAX SOUND (SONES), DAMPER TYPE, VOLTAGE/PHASE, DSCNCT MEANS, NOTES. Rows include EF-1-01 through EF-3-06.

- NOTES: 1. REFER TO SECTION 233400 FOR ADDITIONAL REQUIREMENTS. 2. PROVIDE STARTING AND DISCONNECTING MEANS AS SCHEDULED. (MRS = MOTOR RATED SWITCH; MS/D = COMBINATION MOTOR-STARTER AND DISCONNECT; VFD = VARIABLE FREQUENCY DRIVE; AND DISC = DISCONNECT) 3. PROVIDE CEILING CASSETTE FAN WITH INTEGRAL LIGHT. 4. BATHROOM EXHAUST FAN OPERATION SHALL BE TIED TO BATHROOM LIGHT SWITCH. WHEN LIGHT TURNS ON, FAN SHALL TURN ON.

DUCTLESS MINI-SPLIT UNIT SCHEDULE

Table with columns: MARK (INDOOR UNIT), MARK (OUTDOOR UNIT), TYPE, MANUFACTURER / MODEL (INDOOR & OUTDOOR), REFRIG. TYPE, REFRIG. CHARGE (LBS), SUPPLY AIR FLOW (CFM), OUTSIDE AIR FLOW (CFM), COOLING TOT. CAP. (BTUH), SENS. CAP. (MBH), SEER/VEER (BTUH/W), AMB. CAPACITY (MBH), HEAT PUMP HSPF2, AMB. INDOOR (dBA), MAX SOUND OUTDOOR (dBA), ELECTRICAL - INDOOR UNIT (MCA, FLA, VOLTAGE/PHASE), MAX EQUIV. PIPE LENGTHS (HEIGHT, LENGTH), NOTES.

- NOTES: 1. REFER TO SECTION 238116 FOR ADDITIONAL REQUIREMENTS. 2. SOUND PERFORMANCE IS BASED ON SOUND PRESSURE LEVELS MEASURED AT 3 FEET FROM UNIT AT FULL CAPACITY IN ACCORDANCE WITH AHRI 270 AND 350. 3. ALL UNITS SHALL MEET OR EXCEED SEASONAL ENERGY EFFICIENCY RATIO (SEER) FOR NOMINAL COOLING SIZES LESS THAN 65,000 BTUH. 4. HEAT PUMPS SHALL MEET OR EXCEED HEATING SEASONAL PERFORMANCE FACTOR (HSPF) FOR NOMINAL COOLING SIZES LESS THAN 65,000 BTUH. 5. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS. 6. PROVIDE SINGLE-POINT POWER CONNECTION. PROVIDE FUSED-DISCONNECT SWITCH FOR OUTDOOR UNIT. PROVIDE MOTOR-RATED DISCONNECT SWITCH FOR INDOOR UNIT. 8. PROVIDE LOW AMBIENT TEMPERATURE OPTION. 9. PROVIDE WIRED THERMOSTAT / TEMPERATURE SENSOR AS INDICATED. WIRELESS REMOTE CONTROLS ARE NOT ACCEPTABLE. 10. SEE CONDENSING UNIT SCHEDULE FOR OUTDOOR UNIT INFORMATION. 11. PROVIDE POWER AND CONTROL WIRING FROM OUTDOOR UNIT TO INDOOR UNIT.

AIR DISTRIBUTION SCHEDULE

Table with columns: MARK, SERVICE, TYPE, MANUFACTURER / SERIES, MATERIAL, COLOR, PATTERN, MAX AIR FLOW (CFM), FACE SIZE (IN x IN), NECK SIZE (IN x IN), APD (IN WG), MAX SOUND (NC), NOTES.

- NOTES: 1. REFER TO SECTION 233713 FOR ADDITIONAL REQUIREMENTS. 2. SOUND LEVELS SHALL BE BASED ON ASHRAE 70. 3. VERIFY MOUNTING FRAME STYLE WITH ARCHITECTURAL REFLECTED CEILING PLANS, FINISH SCHEDULES AND EXISTING CEILINGS. 4. DUCT BRANCH FROM MAIN TAKEOFF TO AIR INLET / OUTLET SHALL MATCH SCHEDULED NECK SIZE UNLESS OTHERWISE NOTED.

UNIT HEATER SCHEDULE

Table with columns: MARK, TYPE, MANUFACTURER / MODEL, FAN (AIR FLOW, MOTOR, VOLTAGE/PHASE), AIR (EAT, LAT), ELECTRIC (MIN. CAP., DESIGN, VOLTAGE/PHASE), NOTES.

- NOTES: 1. REFER TO SECTION 238239 FOR ADDITIONAL REQUIREMENTS. 2. PROVIDE MOTOR-RATED DISCONNECT SWITCH. 3. PROVIDE FACTORY-FABRICATED WALL SUPPORT AND EXTENSION SLEEVE FOR SURFACE-MOUNTING. MOUNT AT 12" AFF TO BOTTOM OF HEATER UNLESS OTHERWISE NOTED ON PLANS. 4. PROVIDE WITH INTEGRAL THERMOSTAT SET TO 65°F. 5. PROVIDE SINGLE-STEP CONTROLLER FOR ELECTRIC COILS. COIL CAPACITIES SHALL BE NO LESS THAN MINIMUM AND NO MORE THAN THE ELECTRICAL DESIGN BASIS SCHEDULED. 6. PROVIDE TAMPER-RESISTANT THERMOSTAT COVER PLATE.

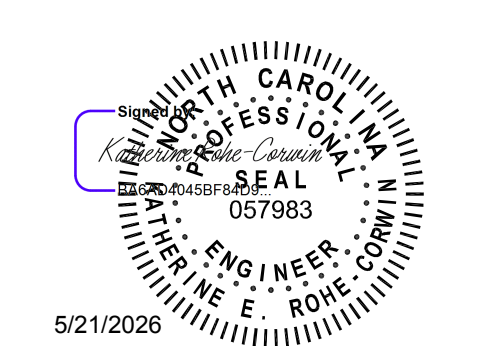


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SEAL



5/21/2026

KEY PLAN

SCALE

REVISIONS

Table with columns: NO., DESCRIPTION, DATE. Multiple empty rows for revisions.

NO. DESCRIPTION DATE DRAWN BY CDB APPROVED BY KRC CHECKED BY WH DATE 05/20/2026

TITLE SCHEDULES

PROJECT NO. 50193045

M-602

SHEET NO.

F

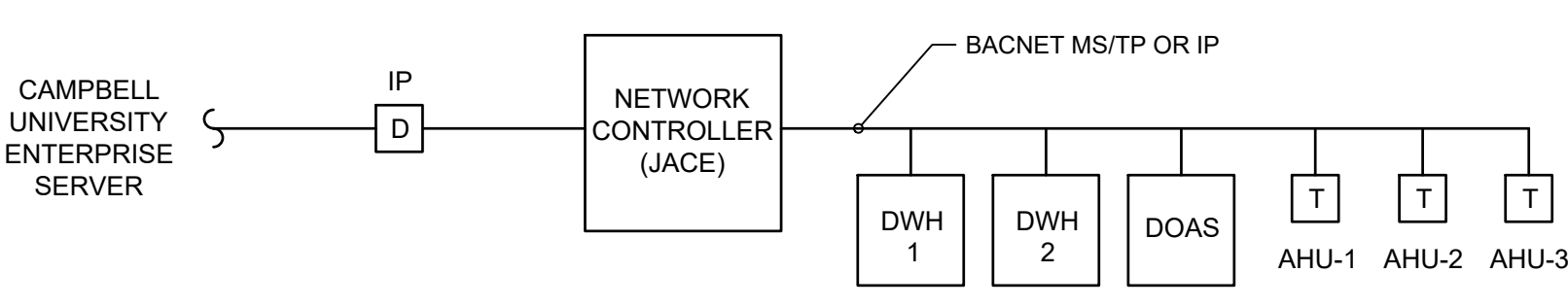
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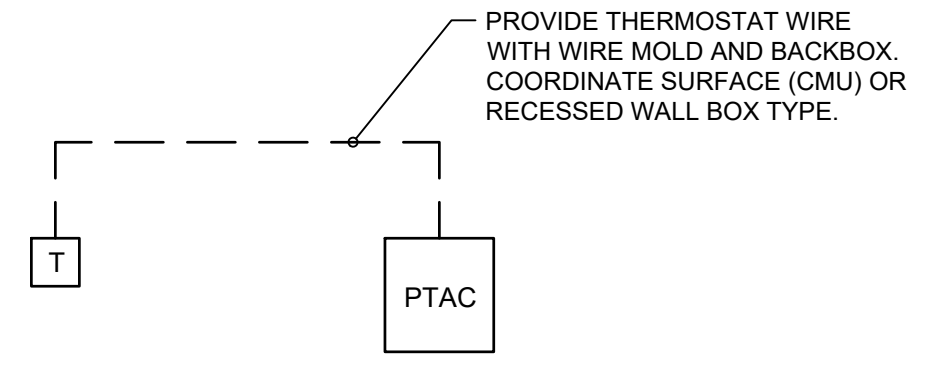
B

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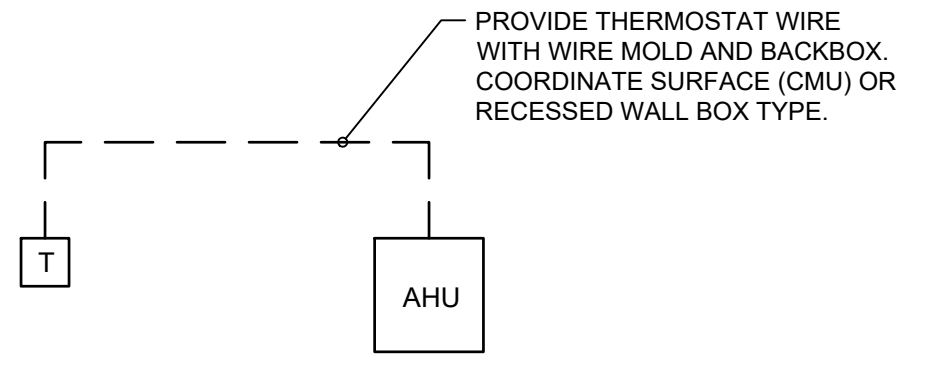
- NOTES:
1. PROVIDE BAS NETWORK CONTROL PANEL IN GROUND FLOOR MECHANICAL ROOM. SEE FLOOR PLANS FOR LOCATION.
 2. PROVIDE DATA DROP WIRING (CAT 6) FROM NETWORK CONTROL PANEL TO FT PAT SERVER FOR FINAL TERMINATIONS BY CAMPBELL IT GROUP.
 3. PROVIDE NEW PLENUM RATED COMMUNICATION CABLE THROUGHOUT BUILDING TO EACH EQUIPMENT CONTROLLER.

BUILDING CONTROL DETAIL



- NOTES:
1. WIRED WALL CONTROLLER WITH OCCUPANCY SENSOR, TEMPERATURE, AND HUMIDITY. FRIEDRICH VRPXEMRT2 OR SIMILAR.
 2. SET FAN TO OPERATE ON DEMAND FOR HEATING AND COOLING.

PTAC CONTROL DETAIL



- NOTES:
1. WIRED WALL CONTROLLER WITH OCCUPANCY SENSOR, TEMPERATURE, AND HUMIDITY. HONEYWELL TC300 OR SIMILAR.

AHU CONTROL DETAIL

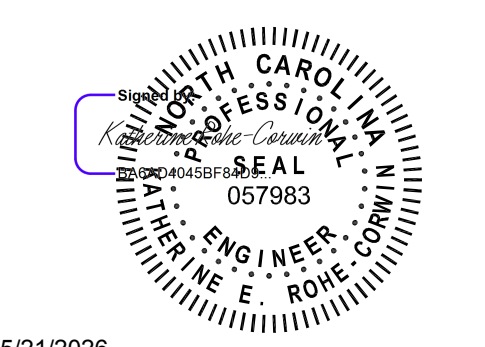


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5/21/2026

KEY PLAN

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY CDB
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 TITLE

CONTROLS

PROJECT NO. 50193045

M-701

SHEET NO.

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ABBREVIATIONS - ELECTRICAL

Table of electrical symbols and abbreviations (A-IS) with descriptions like AMPERE, ALTERNATING CURRENT, ABOVE CEILING, etc.

ABBREVIATIONS - ELECTRICAL

Table of electrical symbols and abbreviations (ISO-W) with descriptions like ISOLATED, JUNCTION BOX, KELVIN, etc.

ABBREVIATIONS - ELECTRICAL

Table of electrical symbols and abbreviations (W-XFMR) with descriptions like WATT, WIRE GUARD, TRANSFORMER, etc.

GENERAL NOTES - ELECTRICAL

- 1. ELECTRICAL PLANS ARE GENERALLY DIAGRAMMATIC IN NATURE AND DO NOT CONVEY ALL DETAILS REQUIRED FOR A COMPLETE INSTALLATION... 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS...

GENERAL NOTES - ELECTRICAL

- 23. ALL EXPOSED RACEWAY ENDS SHALL BE PROVIDED WITH PLASTIC BUSHINGS... 24. ALL ELECTRICAL CONDUCTORS, EQUIPMENT AND TERMINALS SHALL BE 75°C RATED UNLESS NOTED OTHERWISE...

RENOVATION NOTES - ELECTRICAL

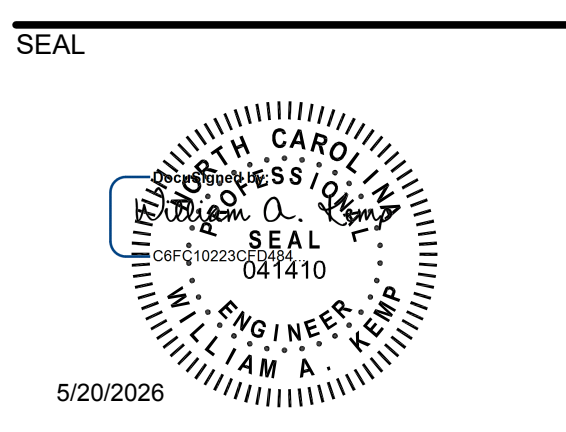
- 1. NEW WORK SHOWN BOLD AND CONTINUOUS. EXISTING TO REMAIN WORK SHOWN LIGHT AND CONTINUOUS... 2. NOT ALL ELECTRICAL DEVICES AND EQUIPMENT ARE SHOWN. LOCATIONS AND ASSOCIATED CIRCUITS OF EXISTING DEVICES AND EQUIPMENT SHOWN ARE BASED IN PART UPON PREVIOUS DRAWINGS...



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KEY PLAN

SCALE

Table with 3 columns: NO., DESCRIPTION, DATE. For tracking revisions.

DRAWN BY BRS/KMS APPROVED BY WAK CHECKED BY POA DATE 05/20/2026 TITLE

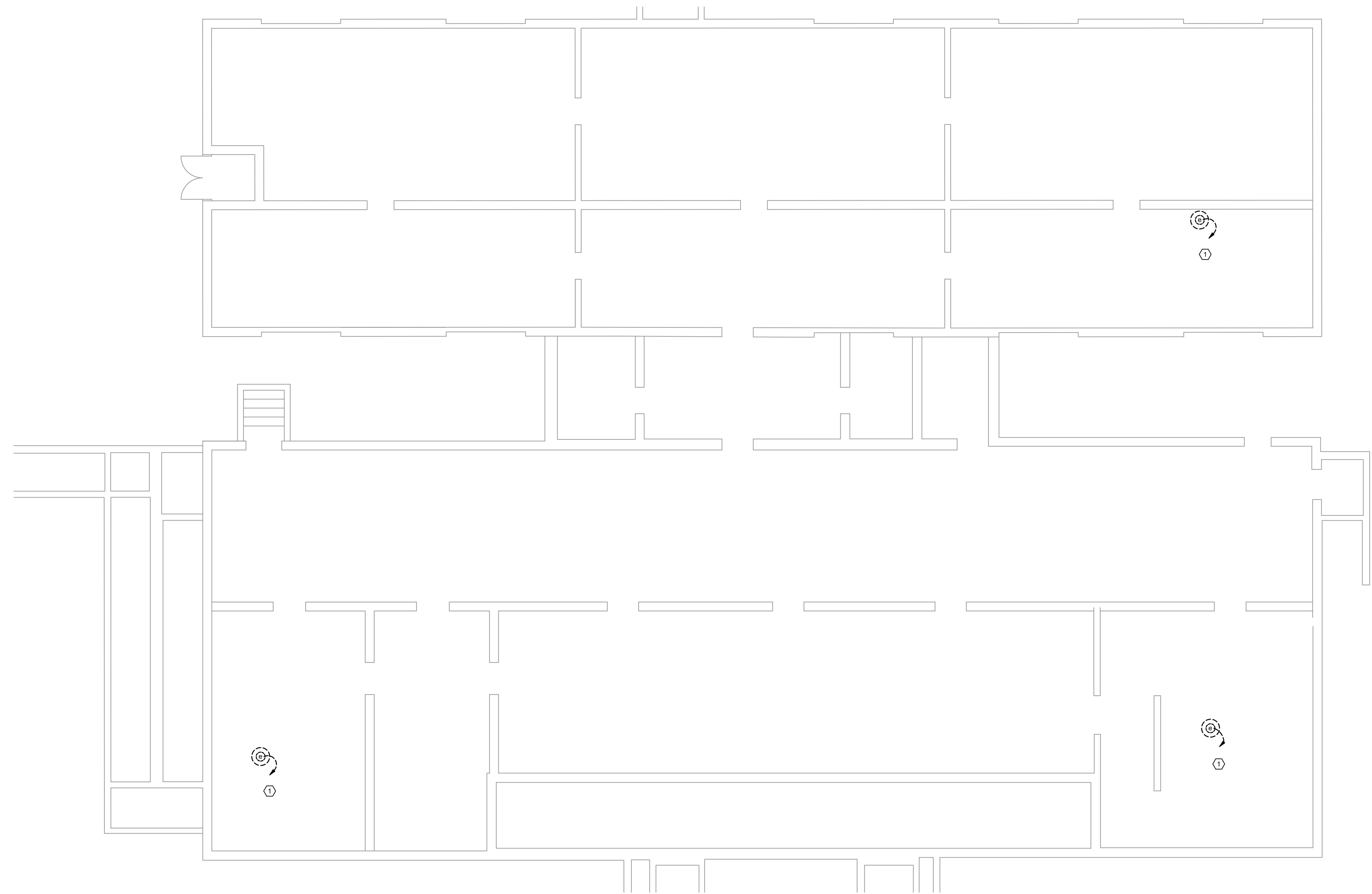
ELECTRICAL SYMBOLS & ABBREVIATIONS

PROJECT NO. 50193045

E-001

SHEET NO.

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① CRAWLSPACE ELECTRICAL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

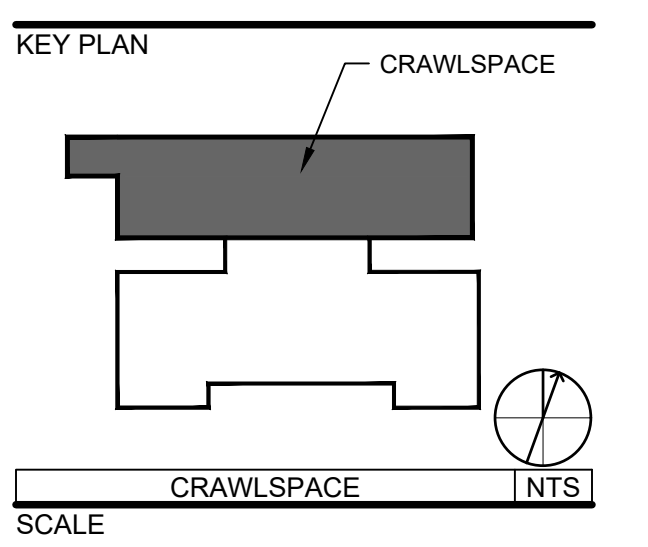
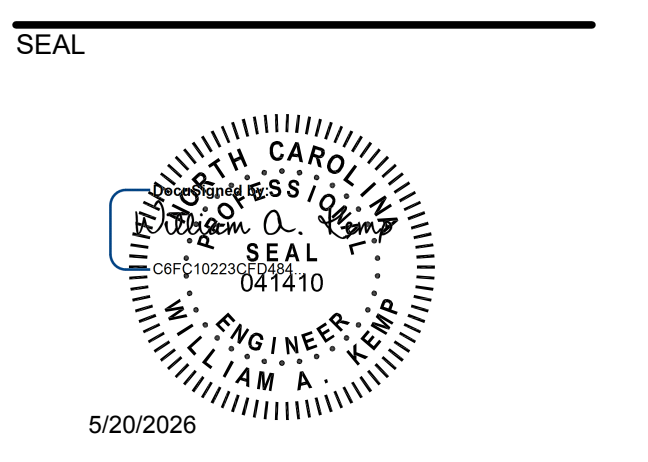
GENERAL NOTES:
1. REFER TO SHEET E-001 FOR ADDITIONAL DEMO NOTES.

KEYNOTES:
1. UNKNOWN SOURCE. CONTRACTOR TO VERIFY BRANCH CIRCUIT SOURCE IN FIELD.

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: _____ BRS, KMS
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CHECKED BY: _____ POA
DATE: _____ 05/20/2026

TITLE
CRAWLSPACE ELECTRICAL DEMOLITION PLAN

PROJECT NO. 50193045

ED101

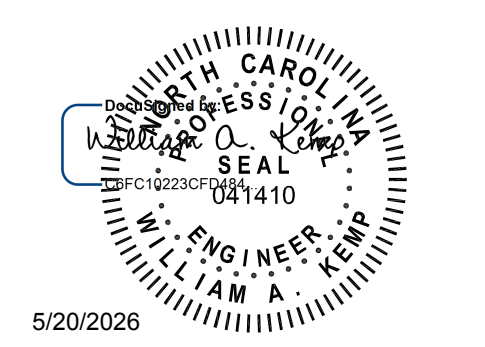
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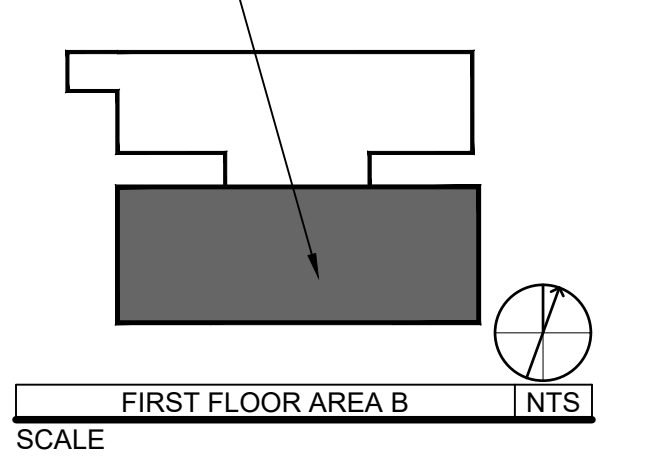


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SEAL



KEY PLAN
AREA B



REVISIONS

NO.	DESCRIPTION	DATE

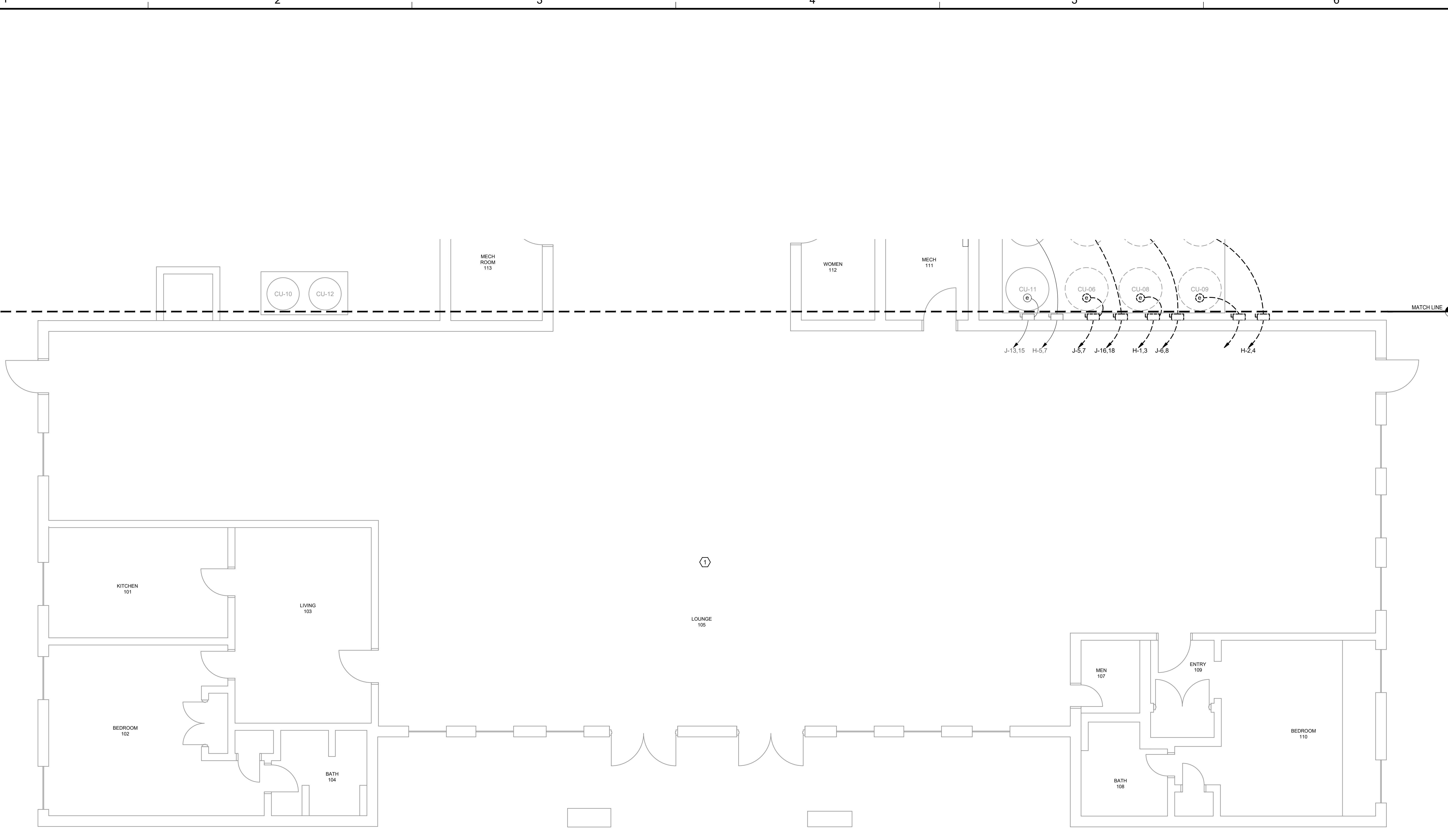
DRAWN BY _____ BRS, KMS
APPROVED BY _____ WAK
CHECKED BY _____ POA
DATE _____ 05/20/2026

TITLE
FIRST FLOOR ELECTRICAL DEMOLITION PLAN AREA B

PROJECT NO. 50193045

ED112

SHEET NO.



1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN AREA B
SCALE: 1/4" = 1'-0"



GENERAL NOTES:

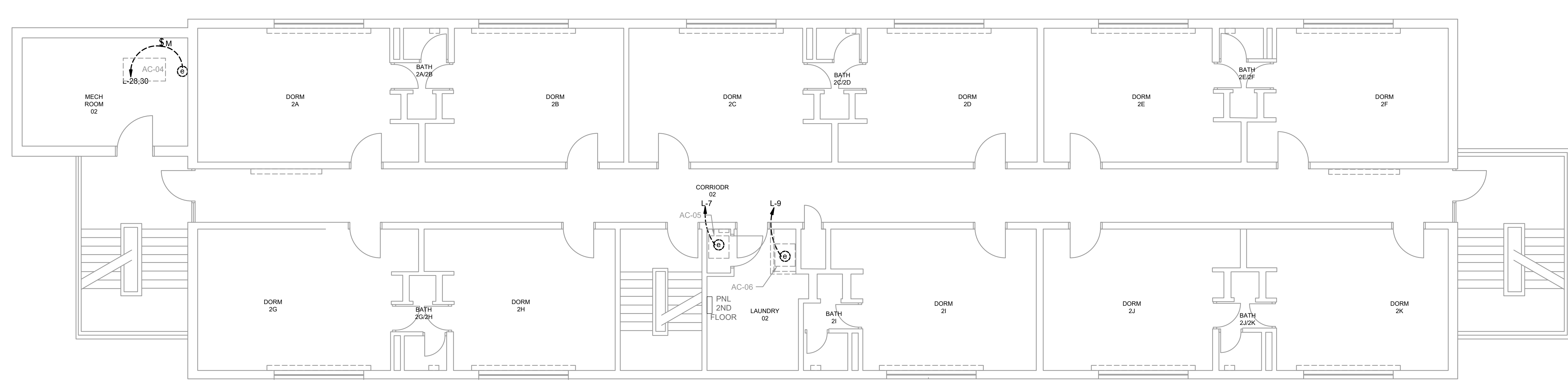
- DEMOLISH ALL BRANCH CIRCUIT WIRING INDICATED BACK TO SOURCE. UNUSED PORTIONS OF CONDUIT TO BE REMOVED OTHERWISE RETAIN FOR REUSE.

KEYNOTES:

- EXISTING SINGLE STORY ADDITION FED FROM PANELS "P", "H", AND "J".

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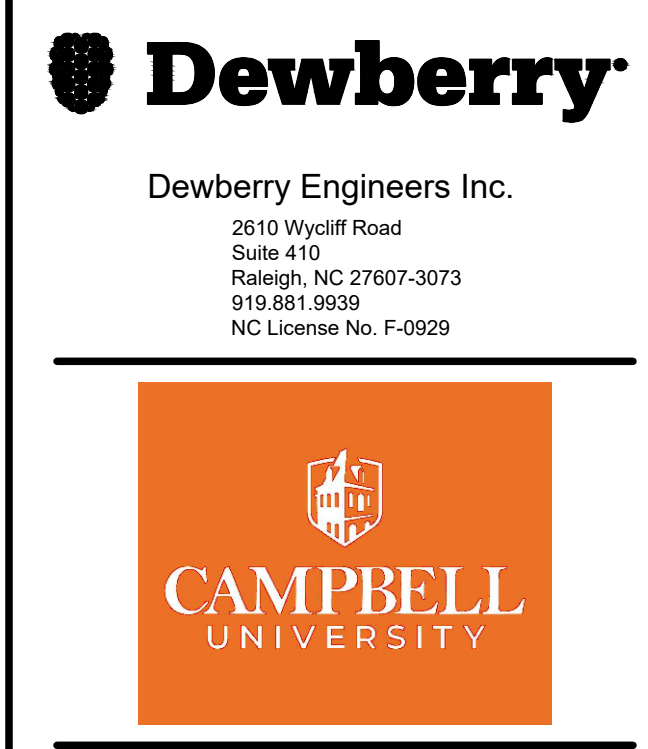
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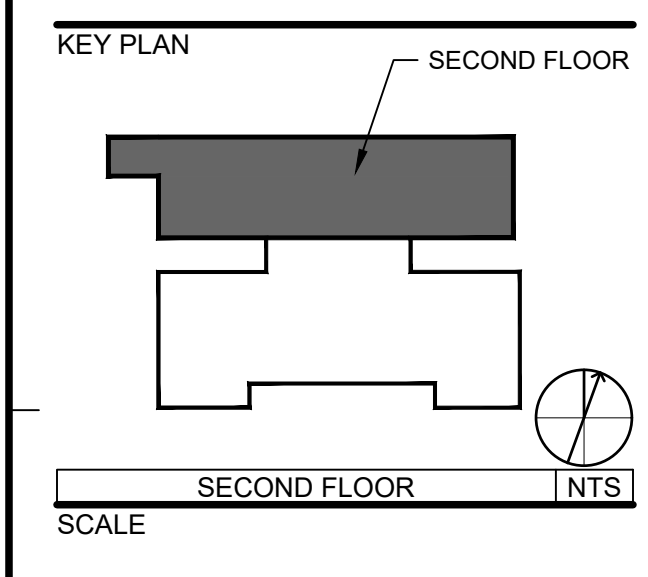
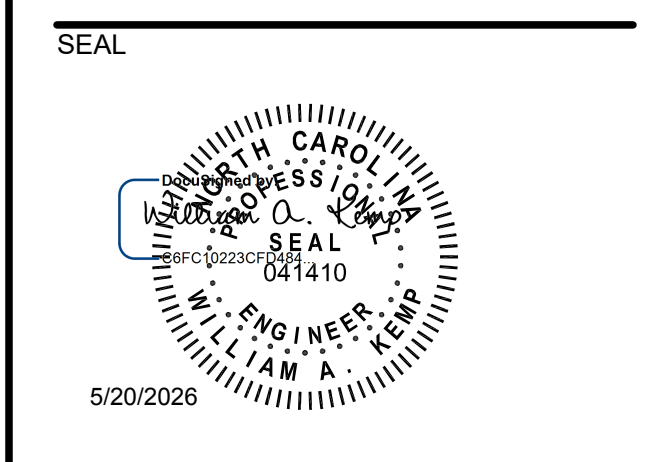
1 SECOND FLOOR ELECTRICAL DEMOLITION WORK PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES:
1. DEMOLISH ALL BRANCH CIRCUIT WIRING INDICATED BACK TO SOURCE. UNUSED PORTIONS OF CONDUIT TO BE REMOVED OTHERWISE RETAIN FOR REUSE.

KEYNOTES:
1.



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CHECKED BY: POA
DATE: 05/20/2026

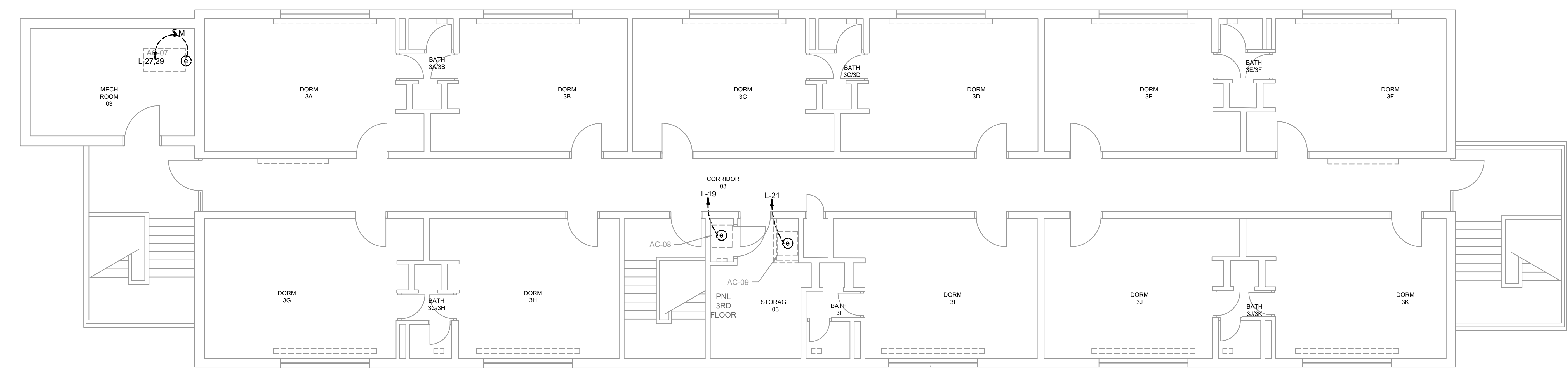
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SECOND ELECTRICAL DEMOLITION PLAN

PROJECT NO. 50193045

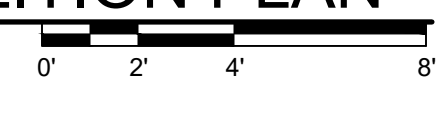
ED121
SHEET NO.



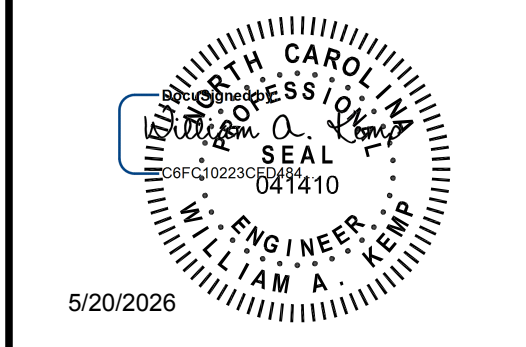
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CONSTRUCTION DOCUMENTS



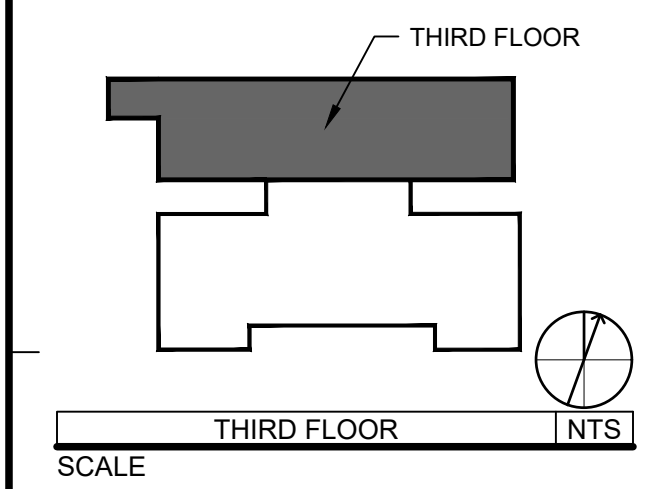
1 THIRD FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



SEAL



KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:

1. DEMOLISH ALL BRANCH CIRCUIT WIRING INDICATED BACK TO SOURCE. UNUSED PORTIONS OF CONDUIT TO BE REMOVED OTHERWISE RETAIN FOR REUSE.

KEYNOTES:

1.

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APPROVED BY: WAK
CHECKED BY: POA
DATE: 05/20/2026

TITLE
THIRD FLOOR ELECTRICAL DEMOLITION PLAN

PROJECT NO. 50193045

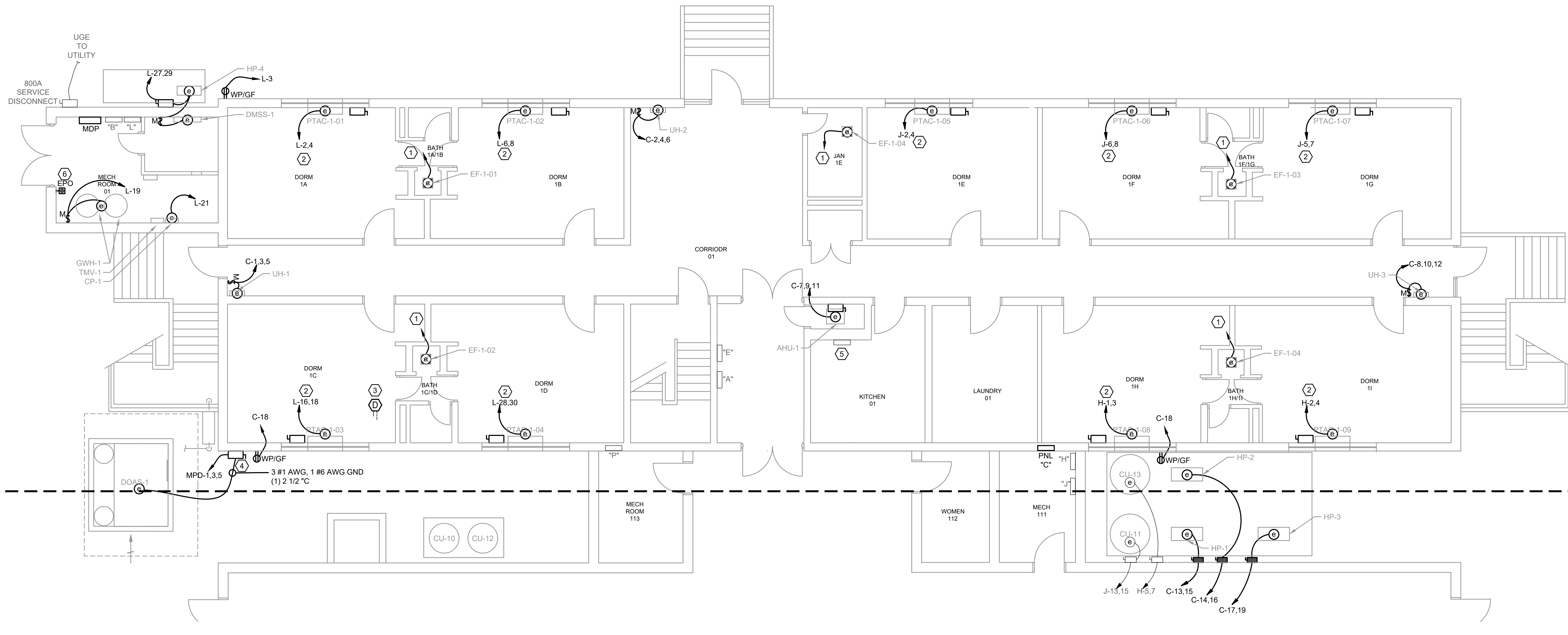
ED131

SHEET NO.

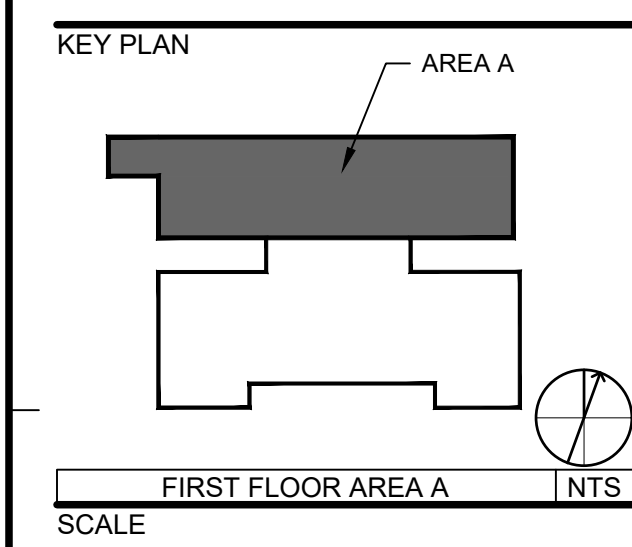
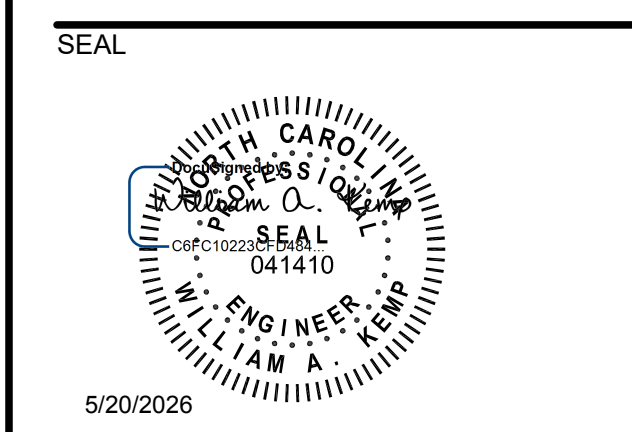


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84 DAY DORM ROAD
BUJES CREEK, NC 27506
CONSTRUCTION DOCUMENTS

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1 FIRST FLOOR ELECTRICAL NEW WORK PLAN AREA A
SCALE: 3/16" = 1'-0"
0' 2' 4' 8'



REVISIONS

NO.	DESCRIPTION	DATE

GENERAL NOTES:
1. REFER TO SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

- KEYNOTES:**
- FAN PROVIDED WITH AN INTEGRAL LIGHT. BOTH OPERATE FROM EXISTING FAN WALL SWITCH. RECONNECT TO EXISTING FAN CIRCUIT.
 - PTAC INCLUDES INTEGRAL DISCONNECT IN BASE. NEATLY INSTALL EXPOSED CONDUIT ALONG WALL TO DISCONNECT WITH BENDS NOT BOXES. CONTRACTOR TO PAINT EXPOSED CONDUIT (TYP EACH PTAC).
 - PROVIDE DOAS DUCT DETECTOR IN CRAWL SPACE. REFER TO MECHANICAL PLAN. MECHANICAL CONTROLS TO SHUTDOWN DOAS. CONNECT TO EXISTING FIRE ALARM SYSTEM FOR SUPERVISORY ALARM. PROVIDE UPDATED NFPA 72 RECORD OF COMPLETION FOR ENGINEER REVIEW.
 - PROVIDE 3P-200A FUSED DISCONNECT, NEMA 3R FUSED AT 125A.
 - CRAWL SPACE PANEL (BELOW).
 - ELECTRICAL CONTRACTOR TO INSTALL AND WIRE A 120V EPO SWITCH FOR PLUMBING EQUIPMENT. FURNISHED BY PLUMBING CONTRACTOR, COORDINATE LOCATION WITH PLUMBING.

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APPROVED BY _____ WAK
CHECKED BY _____ POA
DATE _____ 05/20/2026

TITLE
FIRST FLOOR ELECTRICAL NEW WORK PLAN AREA A

PROJECT NO. 50193045

E-111

SHEET NO.

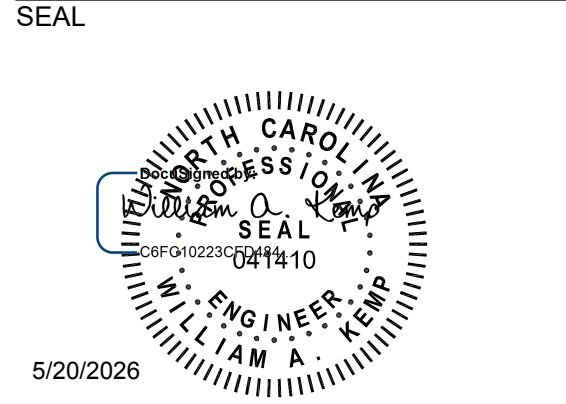
P:\0193045\CAD\ELECTRICAL\50193045 E-111 FIRST FLOOR ELECTRICAL NEW WORK PLAN AREA A.DWG



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KEY PLAN

SCALE

Table with columns: NO., DESCRIPTION, DATE. Includes a grid for revisions.

DRAWN BY: BRS, KMS APPROVED BY: WAK CHECKED BY: POA DATE: 05/20/2026

TITLE SCHEDULES

PROJECT NO. 50193045

E-601

SHEET NO.

Table for Panel J: EXISTING PANEL J, BRANCH: NORMAL, NEW WORK. Includes circuit breaker, phase, and description columns.

Table for Panel D: NEW PANEL D, BRANCH: NORMAL, NEW WORK. Includes circuit breaker, phase, and description columns.

Table for Panel C: NEW PANEL C, BRANCH: NORMAL, NEW WORK. Includes circuit breaker, phase, and description columns.

Table for Panel L: EXISTING PANEL L, BRANCH: NORMAL, NEW WORK. Includes circuit breaker, phase, and description columns.

Table for Panel H: EXISTING PANEL H, BRANCH: NORMAL, NEW WORK. Includes circuit breaker, phase, and description columns.

Table for Panel F: NEW PANEL F, BRANCH: NORMAL, NEW WORK. Includes circuit breaker, phase, and description columns.

F E D C B A

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