

FORT MILL SCHOOLS / YCSD 4 SPRINGFIELD MIDDLE SCHOOL 1711 SPRINGFIELD PARKWAY FORT MILLS, SC 29715

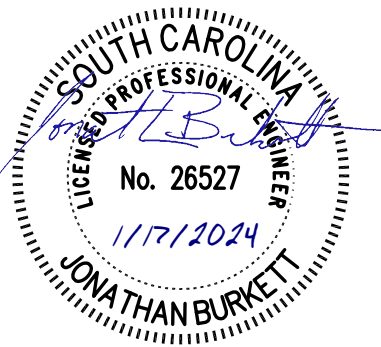
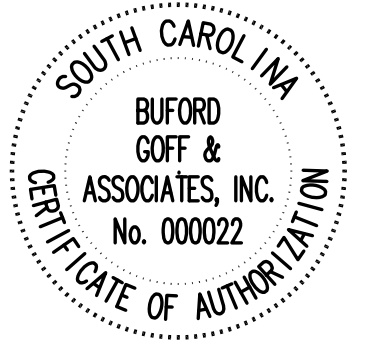
HVAC UPGRADES - PHASE 2

PROJECT # 21040

2024-01-17

Project Engineer:	DER
Drawn By:	LAM
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
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No. _____	Date _____
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No. _____	Date _____

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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 COVER SHEET

SITE MAP



CONSULTANTS

GENERAL CONSTRUCTION - MECHANICAL - ELECTRICAL
BUFORD GOFF & ASSOCIATES, INC.
 1331 ELMWOOD AVENUE, SUITE 200
 COLUMBIA, SOUTH CAROLINA 29201
 TEL: (803) 254-6302
 FAX: (803) 771-6142

CODE ANALYSIS

1. SOUTH CAROLINA EXISTING BUILDING CODE (SCEBC): 2018
2. SOUTH CAROLINA BUILDING CODE (SCBC): 2018
3. SOUTH CAROLINA FIRE CODE (SCFC): 2018
4. SOUTH CAROLINA FUEL GAS CODE (SCFGC): 2018
5. SOUTH CAROLINA MECHANICAL CODE (SCMC): 2018
6. SOUTH CAROLINA PLUMBING CODE (SCPC): 2018
7. NATIONAL ELECTRIC CODE (NEC) WITH SC MODIFICATIONS: 2017
8. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH SC MODIFICATIONS: 2009
9. SEISMIC & WIND DESIGN CRITERIA: CATEGORY C, RISK CATEGORY III, WIND SPEED 119 MPH

DRAWING INDEX

CODE COMPLIANCE

G001 BUILDING CODE ANALYSIS FORM F-3

GENERAL CONSTRUCTION

GC101 FLOOR PLAN - AREA C - HVAC RENOVATION
 GC102 FLOOR PLAN - AREA B - HVAC RENOVATION
 GC103 FLOOR PLAN - AREA D - HVAC RENOVATION
 GC104 FLOOR PLAN - AREA E - HVAC RENOVATION

MECHANICAL

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 MD102 FLOOR PLAN - AREA B - HVAC DEMOLITION
 MD103 FLOOR PLAN - AREA D - HVAC DEMOLITION
 MD104 FLOOR PLAN - AREA A - HVAC DEMOLITION
 MD105 FLOOR PLAN - AREA A (CONT.) AND AREA E - HVAC DEMOLITION
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 M300 HVAC NOTES AND SCHEDULES
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ELECTRICAL

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 E102 FLOOR PLAN - AREA B - ELECTRICAL RENOVATION
 E103 FLOOR PLAN - AREA D - ELECTRICAL RENOVATION
 E104 FLOOR PLAN - AREA A - ELECTRICAL RENOVATION
 E105 FLOOR PLAN - AREA A (CONT.) AND E - ELECTRICAL RENOVATION
 E106 FLOOR PLAN - AREA E - ELECTRICAL RENOVATION

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Sheet Number:
CS

Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

FORM F3 - BUILDING CODE ANALYSIS

DATE: 05/04/2022

SUBMITTAL: SCHEMATIC DESIGN DEVELOPMENT CONSTRUCTION DOCUMENT

SC CODE EDITION: 2018 ICC CODE EDITION: 2018 ICC A117.1 EDITION: 2017 OSF GUIDE EDITION: 2020

OTHER CODES/STANDARDS & EDITIONS:

PROJECT DESCRIPTION:
REPLACEMENT OF SPLIT SYSTEM HEAT PUMPS.

BASIC BUILDING CODE INFORMATION						
DESIGNATED AREAS OF BUILDING	BUILDING CODE	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5
	-	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC	<input type="checkbox"/> SCBC <input type="checkbox"/> SCEBC
CONSTRUCTION CLASSIFICATION TYPE	SECTION 602	IIB (ASSUMED)	-	-	-	-
OCCUPANCY GROUP (INDICATE ALL)	SECTION 302	E	-	-	-	-
MOST RESTRICTIVE OCCUPANCY GROUP	TABLES 504.3, 504.4 & 506.2	E	-	-	-	-
DOES BUILDING REQUIRE INCIDENTAL USE AREA SEPARATION?	TABLE 509	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES BUILDING HAVE ACCESSORY OCCUPANCY(IES)?	TABLE 508.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
WHAT IS THE AGGREGATE SQUARE FOOTAGE OF THE ACCESSORY OCCUPANCY(IES)?	TABLE 508.2	N/A	-	-	-	-
WHAT PERCENT OF THE STORY IS THE AGGREGATE OF THE ACCESSORY OCCUPANCY(IES)?	TABLE 508.2	N/A	-	-	-	-
MIXED OCCUPANCY	SECTION 508	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NONSEPARATED <input type="checkbox"/> SEPARATED

EXISTING BUILDING CODE INFORMATION [SCEBC]			
DESIGNATED AREAS OF BUILDING	AREA 1	AREA 2	AREA 3
METHOD OF COMPLIANCE: (CHECK ONLY ON OPTION AND ALL ITEMS THAT APPLY UNDER THAT OPTION.)	<input type="checkbox"/> OPTION 1: PRESCRIPTIVE COMPLIANCE METHOD (CH. 3,5) <input type="checkbox"/> ALTERATION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> HISTORIC BUILDING	<input type="checkbox"/> OPTION 1: PRESCRIPTIVE COMPLIANCE METHOD (CH. 3,5) <input type="checkbox"/> ALTERATION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> HISTORIC BUILDING	<input type="checkbox"/> OPTION 1: PRESCRIPTIVE COMPLIANCE METHOD (CH. 3,5) <input type="checkbox"/> ALTERATION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> HISTORIC BUILDING
	<input checked="" type="checkbox"/> OPTION 2: WORK AREA COMPLIANCE METHOD (CH. 3, 6-12) <input checked="" type="checkbox"/> ALTERATION LEVEL 1 <input type="checkbox"/> ALTERATION LEVEL 2 <input type="checkbox"/> ALTERATION LEVEL 3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITIONS <input type="checkbox"/> HISTORIC BUILDING AGGREGATE AREA OF BUILDING: N/A SF WORK AREA: N/A SF	<input type="checkbox"/> OPTION 2: WORK AREA COMPLIANCE METHOD (CH. 3, 6-12) <input type="checkbox"/> ALTERATION LEVEL 1 <input type="checkbox"/> ALTERATION LEVEL 2 <input type="checkbox"/> ALTERATION LEVEL 3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITIONS <input type="checkbox"/> HISTORIC BUILDING AGGREGATE AREA OF BUILDING: SF WORK AREA: SF	<input type="checkbox"/> OPTION 2: WORK AREA COMPLIANCE METHOD (CH. 3, 6-12) <input type="checkbox"/> ALTERATION LEVEL 1 <input type="checkbox"/> ALTERATION LEVEL 2 <input type="checkbox"/> ALTERATION LEVEL 3 <input type="checkbox"/> CHANGE OF OCCUPANCY <input type="checkbox"/> ADDITIONS <input type="checkbox"/> HISTORIC BUILDING AGGREGATE AREA OF BUILDING: SF WORK AREA: SF
	<input type="checkbox"/> OPTION 3: PERFORMANCE COMPLIANCE METHOD (CH. 3, 13)	<input type="checkbox"/> OPTION 3: PERFORMANCE COMPLIANCE METHOD (CH. 3, 13)	<input type="checkbox"/> OPTION 3: PERFORMANCE COMPLIANCE METHOD (CH. 3, 13)
ORIGINAL BUILDING CODE AND EDITION APPLICABLE AT THE TIME OF CONSTRUCTION:	2000 IBC		
EXISTING SPRINKLER SYSTEM?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
EXISTING FIRE ALARM SYSTEM?	<input checked="" type="checkbox"/> MANUAL <input type="checkbox"/> AUTO	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTO	<input type="checkbox"/> MANUAL <input type="checkbox"/> AUTO
SEISMIC EVALUATION REQUIRED?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
CHANGE OF OCCUPANCY:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO EXISTING OCCUPANCY CLASS(S) NEW OCCUPANCY CLASSIFICATION(S)	<input type="checkbox"/> YES <input type="checkbox"/> NO EXISTING OCCUPANCY CLASS(S) NEW OCCUPANCY CLASSIFICATION(S)	<input type="checkbox"/> YES <input type="checkbox"/> NO EXISTING OCCUPANCY CLASS(S) NEW OCCUPANCY CLASSIFICATION(S)
HISTORIC BUILDING:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> PRESERVATION <input type="checkbox"/> REHABILITATION <input type="checkbox"/> RESTORATION <input type="checkbox"/> RECONSTRUCTION	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> PRESERVATION <input type="checkbox"/> REHABILITATION <input type="checkbox"/> RESTORATION <input type="checkbox"/> RECONSTRUCTION	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> PRESERVATION <input type="checkbox"/> REHABILITATION <input type="checkbox"/> RESTORATION <input type="checkbox"/> RECONSTRUCTION

MECHANICAL INFORMATION

GENERAL INFORMATION

BUILDING LOCATION: FORT MILL, SOUTH CAROLINA

CLIMATE ZONE: 3A

OUTDOOR DESIGN TEMPERATURE: SUMMER 95 DEG. F DF, 74 DEG. F WB, WINTER 19 DEG. F DF, N/A DEG. F WB

INDOOR DESIGN TEMPERATURE: SUMMER 75 DEG. F DF, 50 % RH, WINTER 70 DEG. F DF, N/A % RH

OUTSIDE AIR

OCCUPIED MINIMUM OUTSIDE AIR: N/A

CO2 DEMAND MANAGEMENT: NO YES

SUPERVISED CONTROL SYSTEM: NO YES

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

REPLACEMENT OF INDOOR SPLIT SYSTEM HEAT PUMPS.

STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	ANALYSIS PROCEDURE (ASCE 7 OR IBC 1609.6)	ASCE 7-16
	BASIC WIND SPEED, MPS (3 SEC GUST IBC FIG 1609)	V _{SS} = 119
	EXPOSURE CATEGORY	B
	WIND IMPORTANCE FACTOR (ASCE 7 TABLE 6.1)	I _w = 1.15
SEISMIC LOADS	INTERNAL PRESSURE COEFFICIENT (ASCE 7)	G _{CPI} = N/A
	EXTERNAL PRESSURE COEFFICIENT (ASCE 7)	G _{CP} = N/A
	SEISMIC IMPORTANCE FACTOR (ASCE 7)	I = 1.25
	SOIL CLASS (IBC 1613.5.2)	D
	MAPPED SPECTRAL RESPONSE ACCELERATIONS	S _S = 0.218 S ₁ = 0.086
	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S _{DS} = 0.233 S _{DT} = 0.137
	SEISMIC USE GROUP (ASCE 7 AND SEISMIC OCCUPANCY CATEGORY IBC)	III
	SEISMIC DESIGN CATEGORY (IBC TABLES 1613.5.6(1) & 16.13.5.6(2))	C
	BASIC SEISMIC FORCE RESISTING SYSTEM	N/A
	DESIGN BASE SHEAR	N/A KIPS
SEISMIC RESPONSE COEFFICIENT(S) ASCE 7	C _s = N/A	
RESPONSE MODIFICATION FACTOR(S) ASCE 7	R = N/A	
ANALYSIS PROCEDURE	N/A	

ELECTRICAL INFORMATION N/A, EXISTING SERVICES

GENERAL INFORMATION

SERVICE TRANSFORMER: BY UTILITY BY DISTRICT

N/A KVA PRIMARY

N/A VOLTAGE/PHASE

ELECTRICAL SERVICE INFORMATION

SERVICE VOLTAGE/PHASE: N/A AMPERES

SERVICE ENTRANCE CONDUCTOR SIZE: N/A QTY PER PHASE

TOTAL CONNECTED LOAD: N/A KVA

ESTIMATED MAXIMUM DEMAND: N/A KVA

AVAILABLE FAULT CURRENT IN SYMMETRICAL AMPERES: N/A

INTERRUPTING CAPACITY OF SERVICE OVERCURRENT DEVICE: N/A

GROUNDING ELECTRODE SYSTEM COMPONENTS (NEC 250)

EMERGENCY SERVICE INFORMATION N/A

EMERGENCY GENERATOR: NO YES

N/A KVA

N/A VOLTAGE/PHASE

FUEL: N/A

EXIT/EMERGENCY LIGHTS BACKUP POWER: INTEGRAL BATTERY GENERATOR

FIRE ALARM SYSTEM: MANUAL AUTOMATIC

ADDRESSABLE CLASS A CLASS B

LIGHTNING PROTECTION PROVIDED

NO YES

Project Engineer: DER

Drawn By: LAM

Revisions:

No. 1 Date: 3/11/21

No. _____ Date: _____

No. _____ Date: _____

No. _____ Date: _____

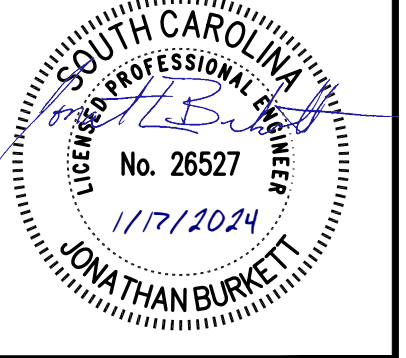
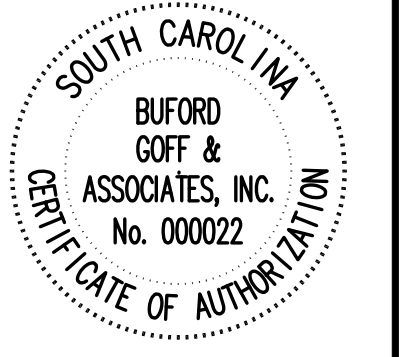
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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 BUILDING CODE ANALYSIS FORM F-3

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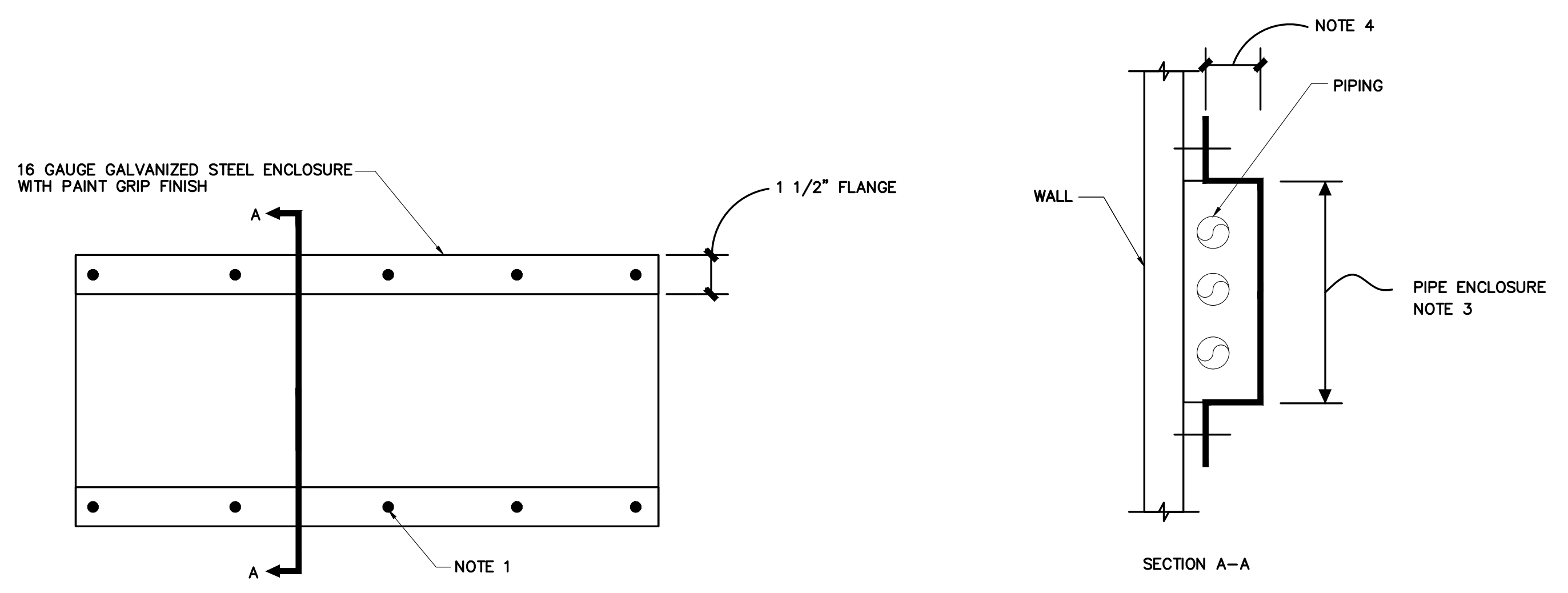
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Columbia, SC 29201
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Sheet Number: **G001**

Date: JANUARY 17, 2024
Scale: As Noted
BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS

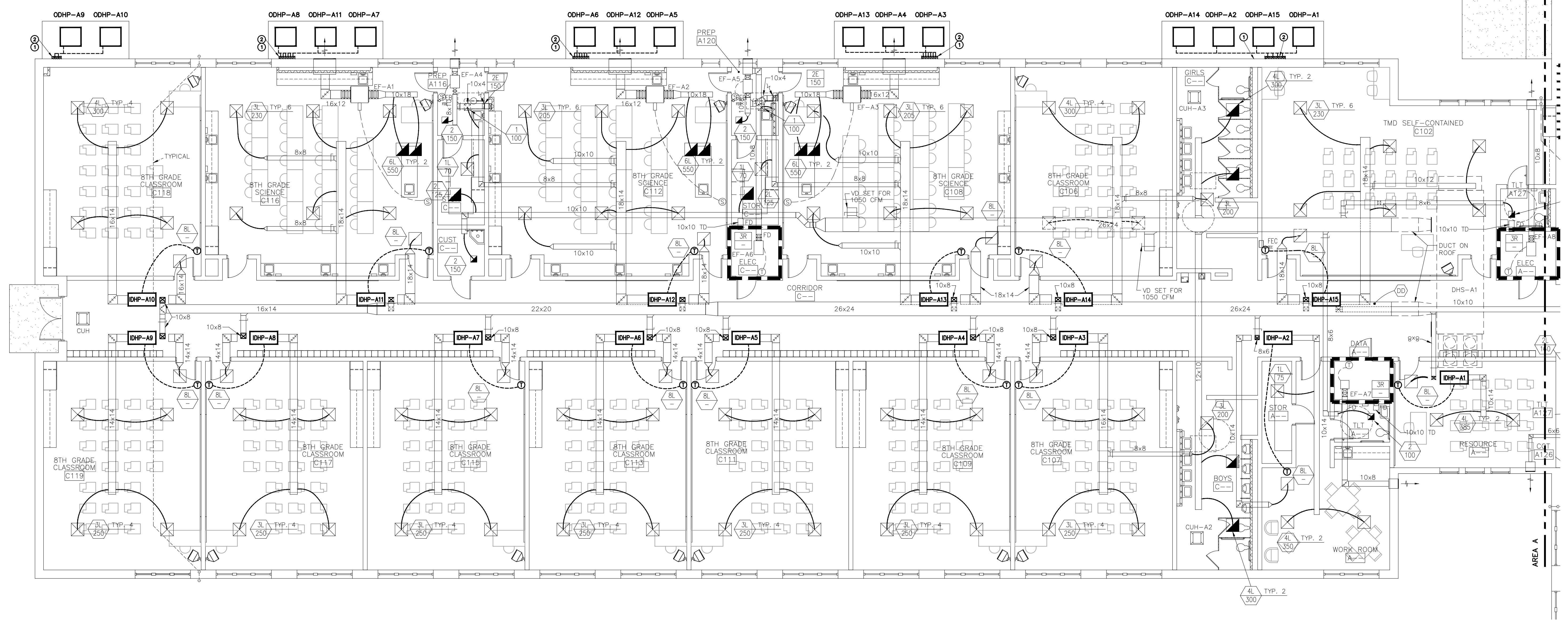
GENERAL CONSTRUCTION KEY NOTES

1. PATCH EXISTING WALL PENETRATIONS WHERE REFRIGERANT PIPING IS REMOVED.
2. PROVIDE ENCLOSURE OVER NEW REFRIGERANT PIPING. SEE DETAIL.

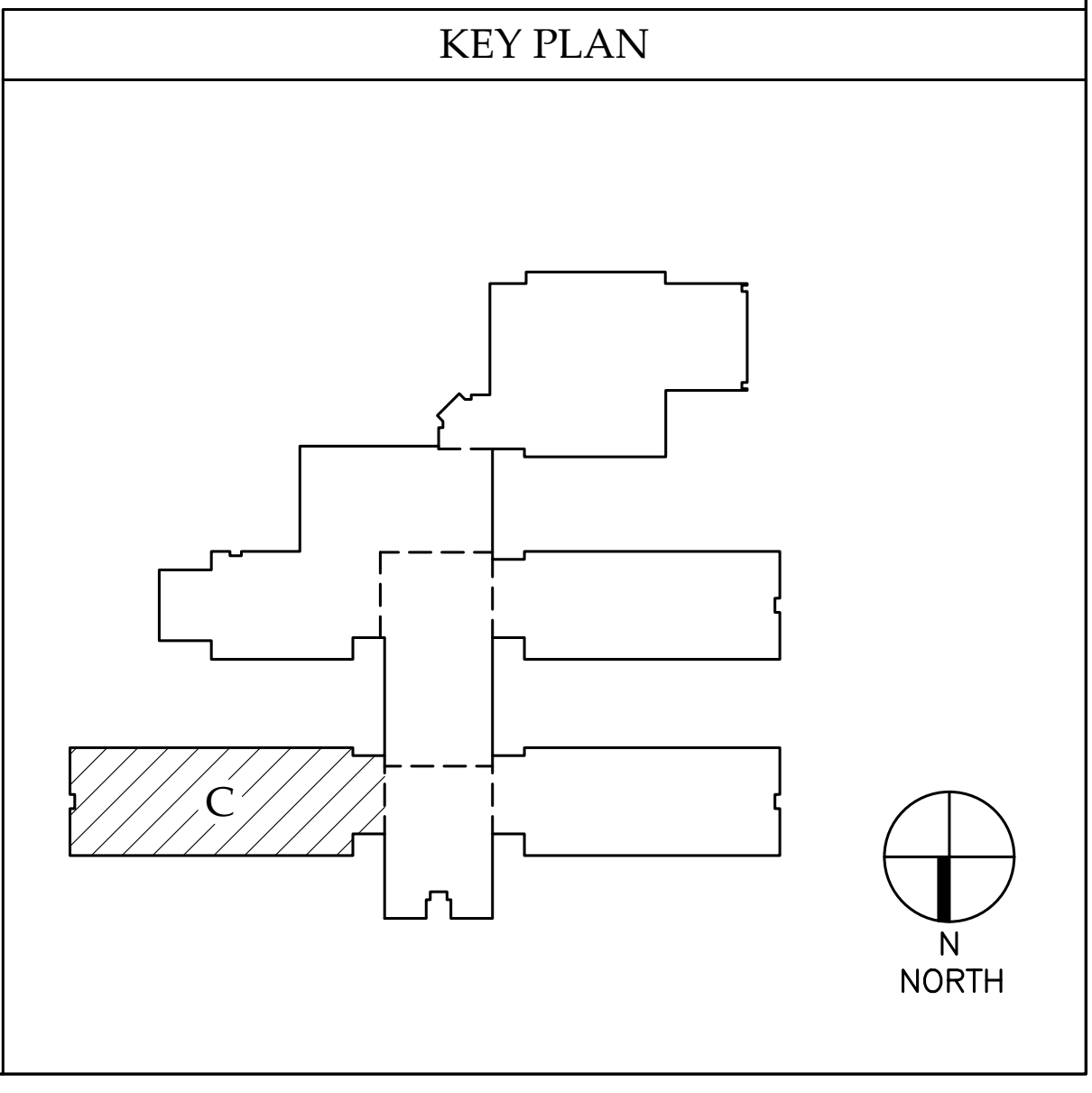


- NOTES:**
1. PROVIDE SS TAMPER PROOF FASTENERS 12" OC AND AT EACH CORNER.
 2. ENCLOSURE SHALL BE PROVIDED TO COVER WALL MOUNTED REFRIGERANT PIPING. PRIME AND PAINT ENCLOSURE COLOR SELECTED BY OWNER.
 3. WIDTH AS REQUIRED BUT NO LESS THAN 8".
 4. DEPTH AS REQUIRED BUT NO LESS THAN 4".
 5. FIELD VERIFY EXACT DIMENSIONS.
 6. PROVIDE CAP ON THE TOP OF THE ENCLOSURE.
 7. APPROXIMATE ENCLOSURE HEIGHT 10'-8".

EXTERIOR PIPE ENCLOSURE
NOT TO SCALE



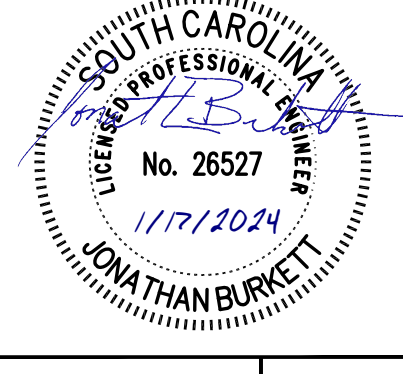
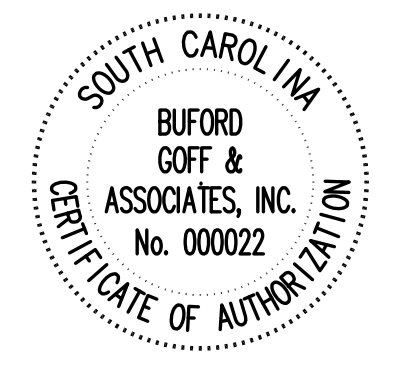
1 FLOOR PLAN - AREA C - HVAC RENOVATION
SCALE: 1/8" = 1'-0"



Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

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FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA C - HVAC RENOVATION

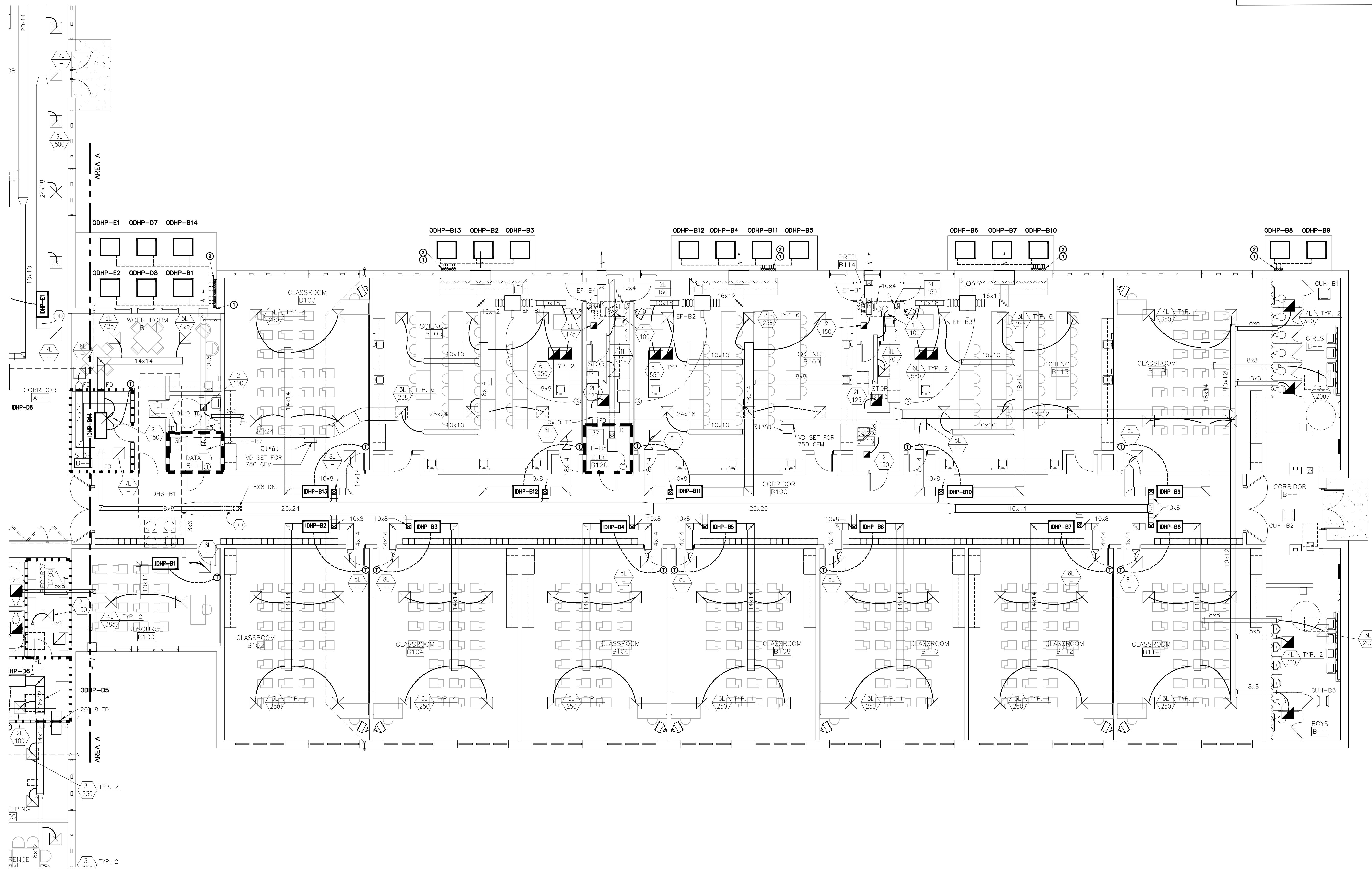
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 Phone: (803) 254-6302

Sheet Number:
GC101

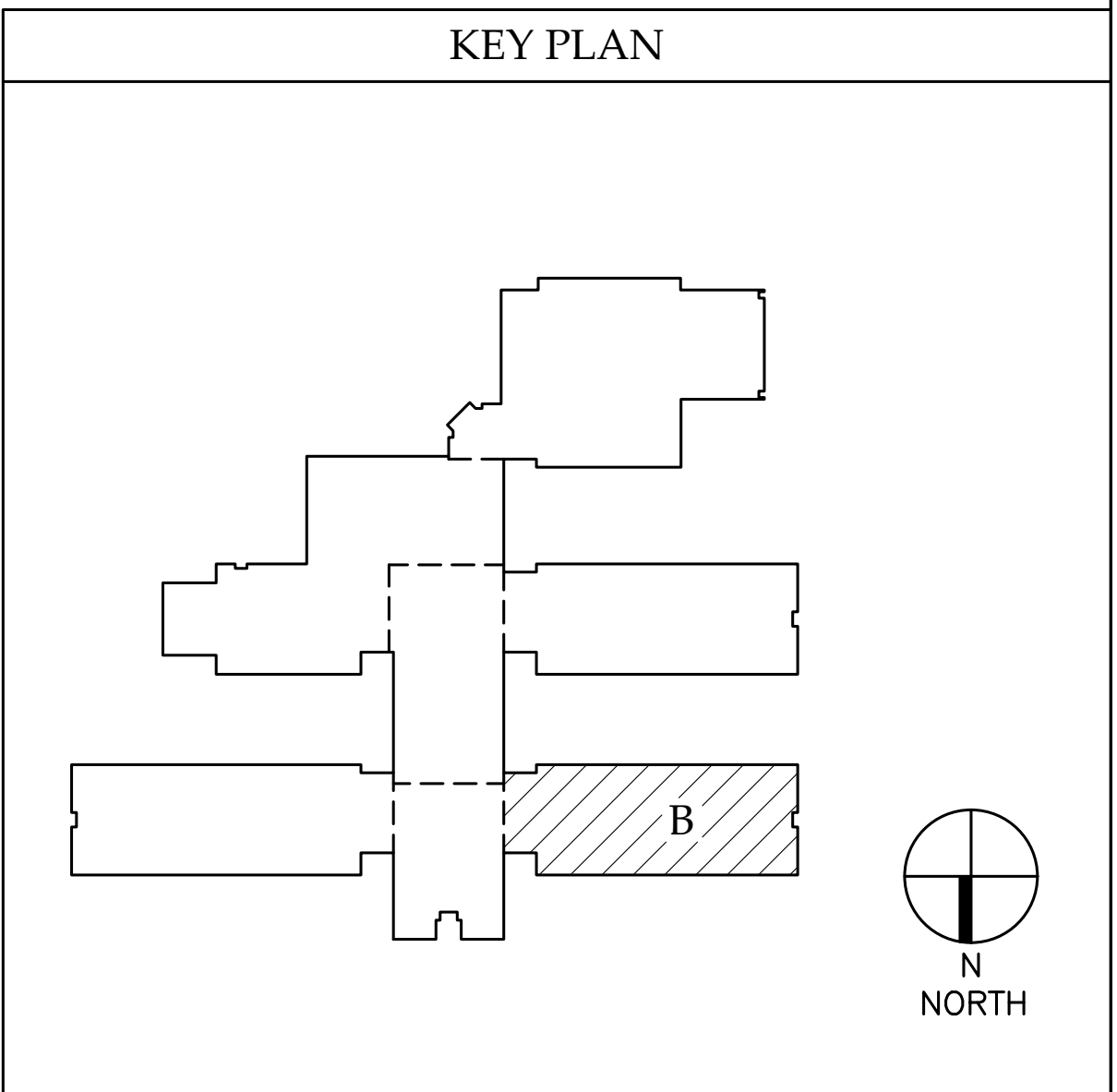
Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

GENERAL CONSTRUCTION KEY NOTES

1. PATCH EXISTING WALL PENETRATIONS WHERE REFRIGERANT PIPING IS REMOVED.
2. PROVIDE ENCLOSURE OVER NEW REFRIGERANT PIPING. SEE DETAIL.



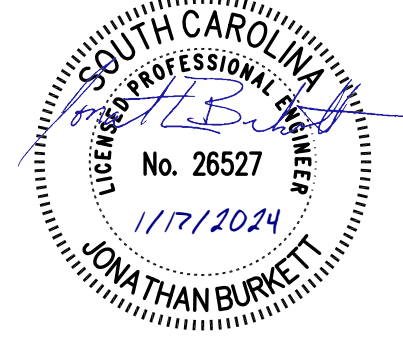
1 FLOOR PLAN - AREA B - HVAC RENOVATION
 GC102 SCALE: 1/8" = 1'-0"



Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	

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FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA B - HVAC RENOVATION

Project: _____
 Sheet Title: _____

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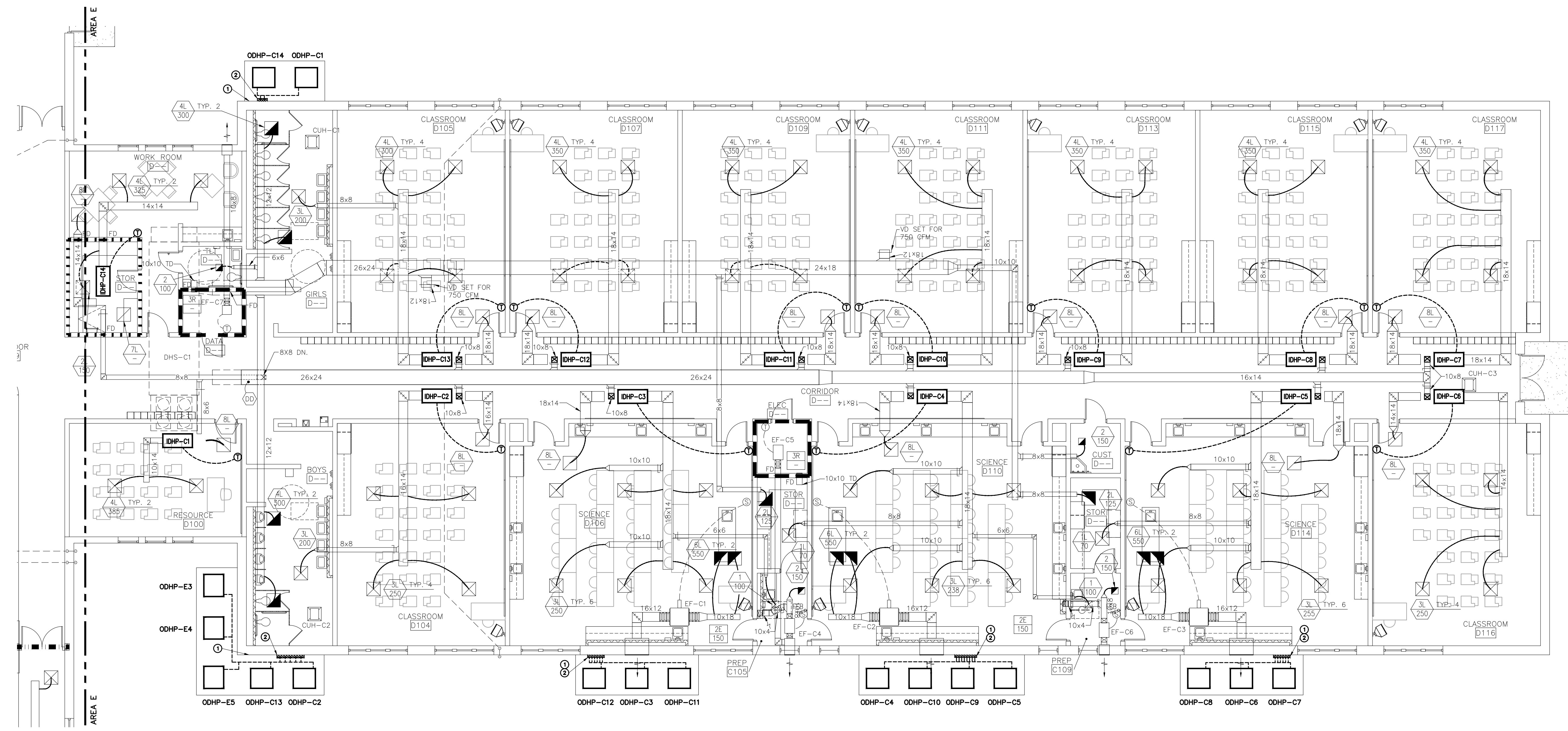
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 Phone: (803) 254-6302

Sheet Number:
GC102

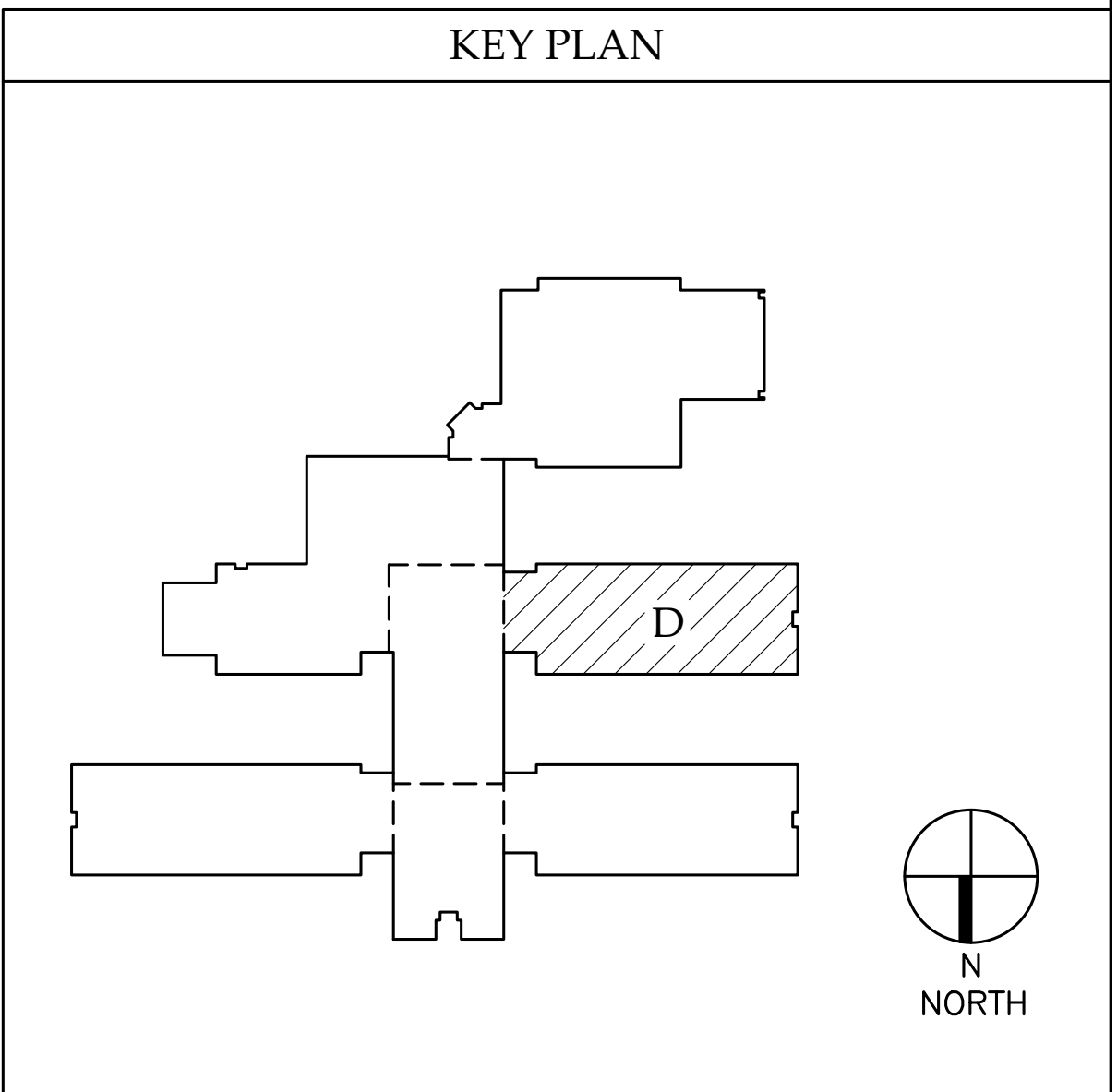
Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

GENERAL CONSTRUCTION KEY NOTES

1. PATCH EXISTING WALL PENETRATIONS WHERE REFRIGERANT PIPING IS REMOVED.
2. PROVIDE ENCLOSURE OVER NEW REFRIGERANT PIPING. SEE DETAIL.



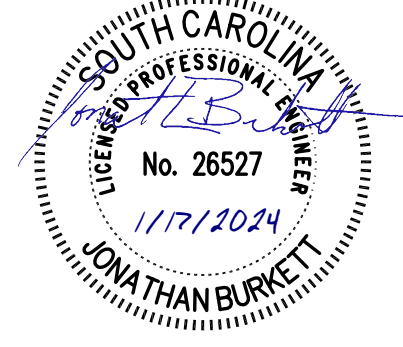
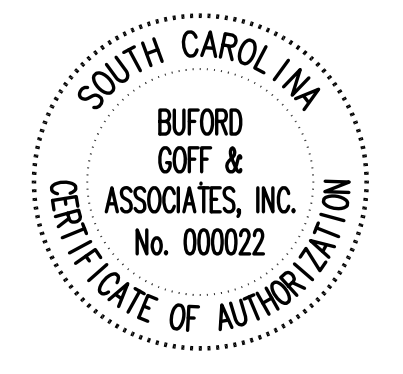
1 FLOOR PLAN - AREA D - HVAC RENOVATION
SCALE: 1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

Project Engineer:
JEB
Drawn By:
xxx
Revisions:
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____

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FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA D - HVAC RENOVATION

Project: _____
Sheet Title: _____

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1331 Elmwood Ave.
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Columbia, SC 29201
Phone: (803) 254-6302

Sheet Number:
GC103

Date: JANUARY 17, 2024
Scale: As Noted
BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS

GENERAL CONSTRUCTION KEY NOTES

1. PATCH EXISTING WALL PENETRATIONS WHERE REFRIGERANT PIPING IS REMOVED.
2. PROVIDE ENCLOSURE OVER NEW REFRIGERANT PIPING. SEE DETAIL.

Project Engineer:
JEB

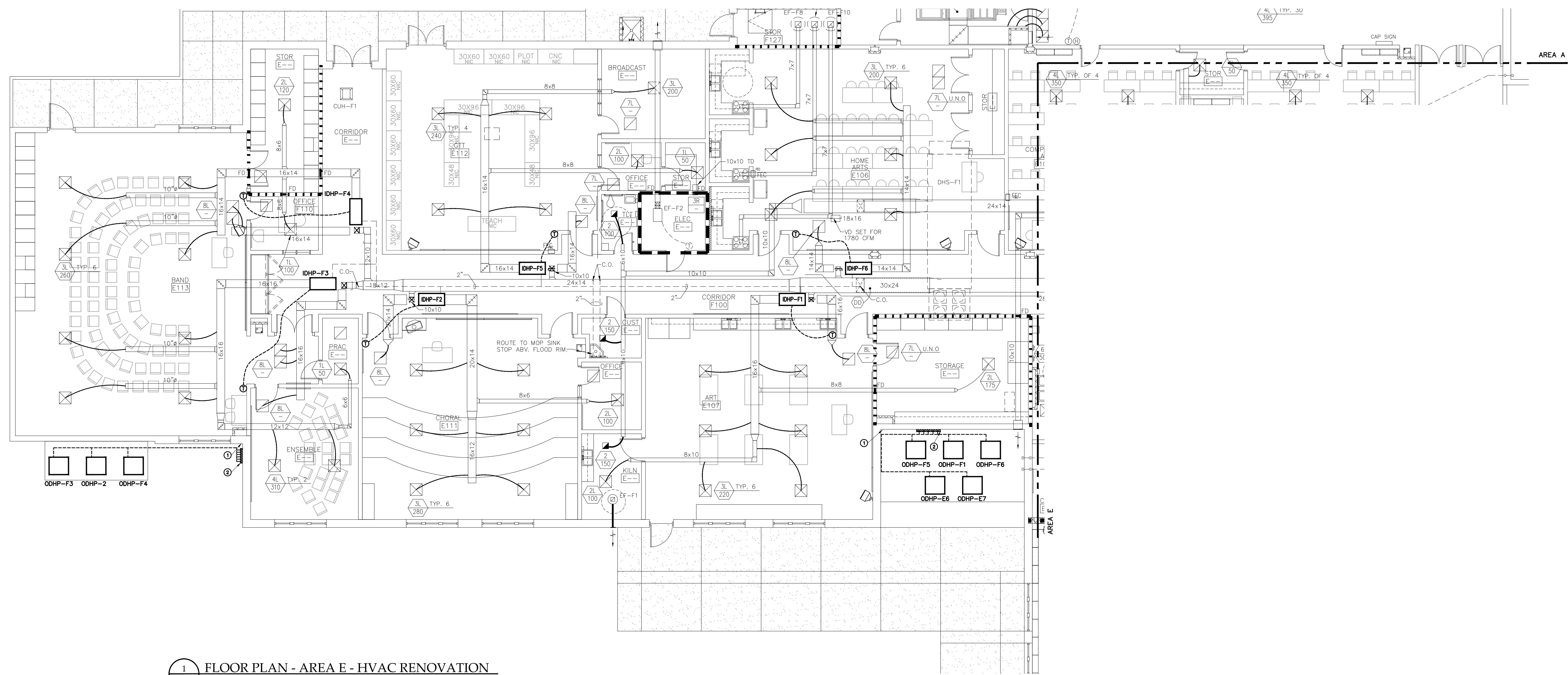
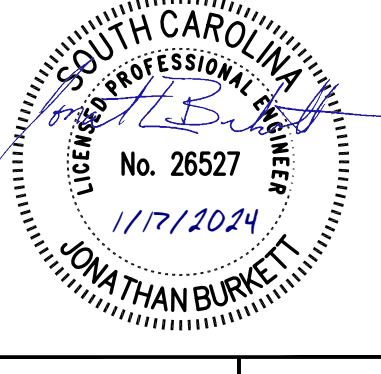
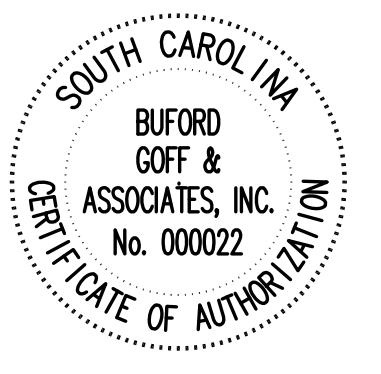
Drawn By:
xxx

Revisions:

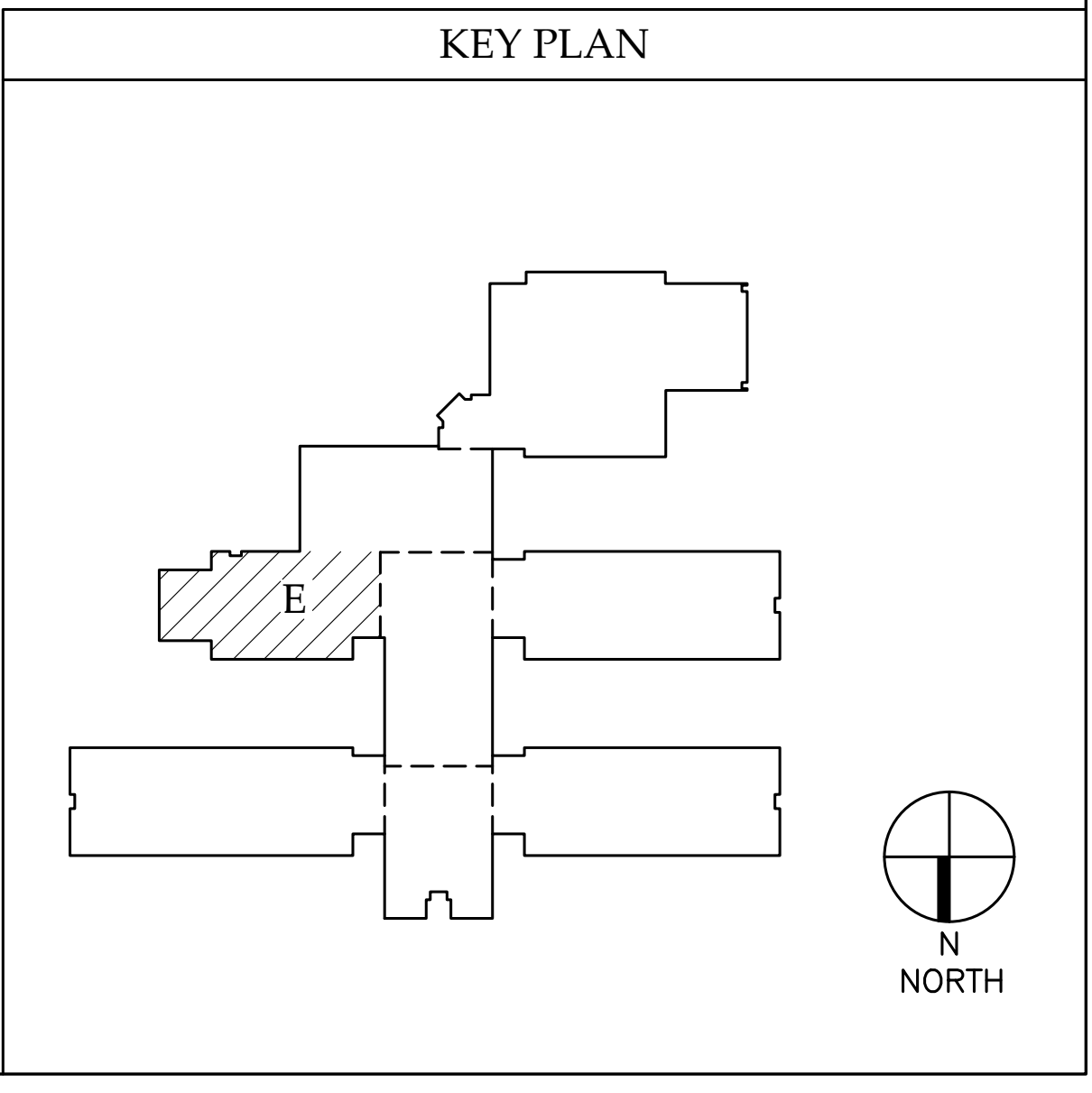
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FLOOR PLAN - AREA E - HVAC RENOVATION
SCALE: 1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

**FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2**
FLOOR PLAN - AREA E - HVAC RENOVATION

Buford Goff & Associates, Inc.
Engineers & Planners

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Phone: (803) 254-6302

Sheet Number:
GC104

Date: JANUARY 17, 2024
Scale: As Noted
BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS

HVAC DEMOLITION KEY NOTES

- DEMOLISH EXISTING UNIT ABOVE CEILING. INSPECT EXISTING SUPPORTS TO VERIFY PROPER ATTACHMENT TO THE STRUCTURE.
- DISCONNECT EXISTING UNIT DRAINS FROM UNIT AND TEMPORARILY CAP UNTIL THE NEW UNITS ARE INSTALLED.
- EVACUATE REFRIGERANT AND DEMOLISH EXISTING REFRIGERANT PIPING. TURN OVER RECOVERED REFRIGERANT TO OWNER.
- DEMOLISH OUTSIDE AIR DUCT AS REQUIRED FOR INSTALLATION OF NEW UNIT.
- DEMOLISH EXISTING CONDENSING UNIT ON GRADE.
- DEMOLISH EXISTING T-STAT ON WALL. REUSE EXISTING CONTROLS CONDUIT FOR NEW T-STAT.

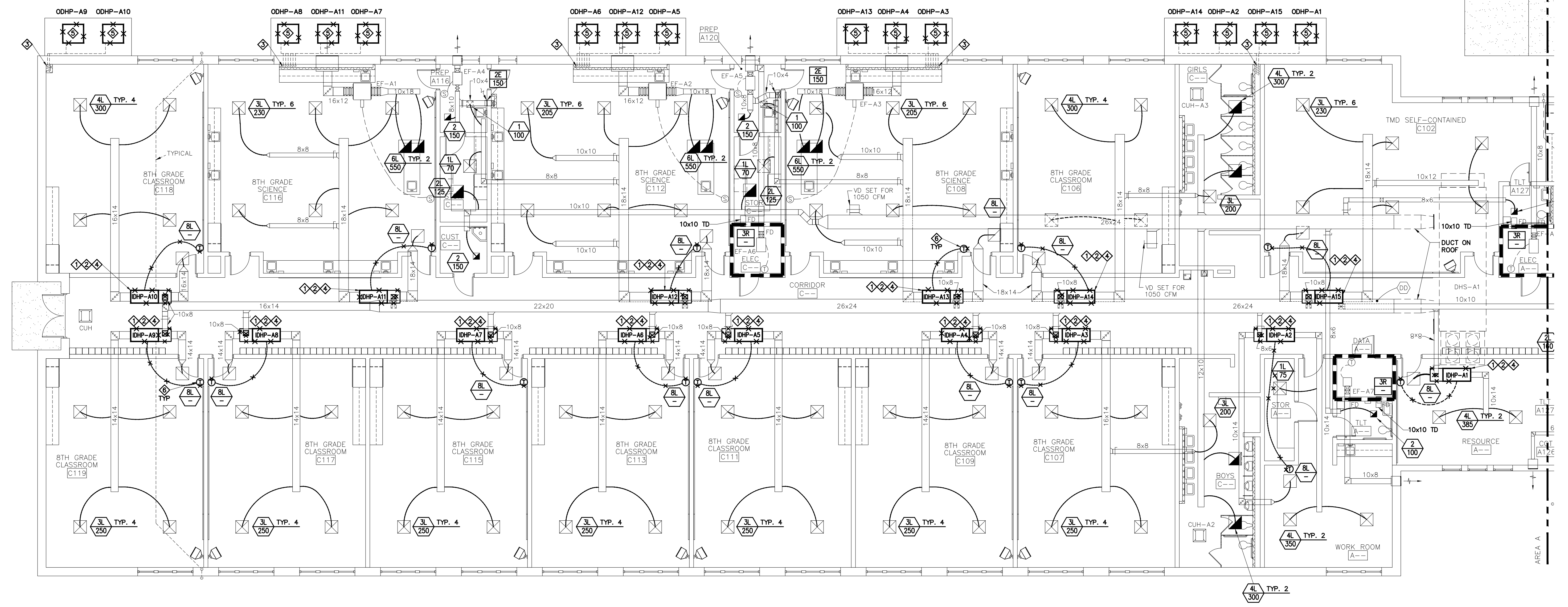
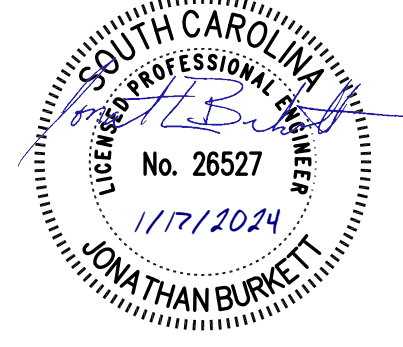
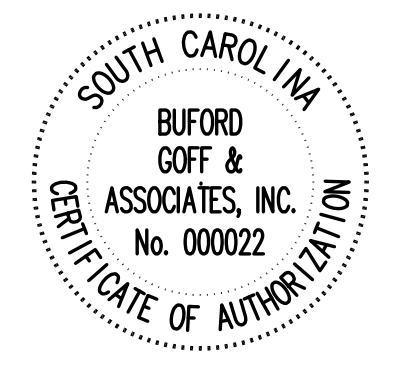
TEST AND BALANCE

- PRIOR TO DEMOLITION, MEASURE EACH INDOOR HEAT PUMP UNIT'S SUPPLY, RETURN AND OUTSIDE AIR AIRFLOW.
- SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

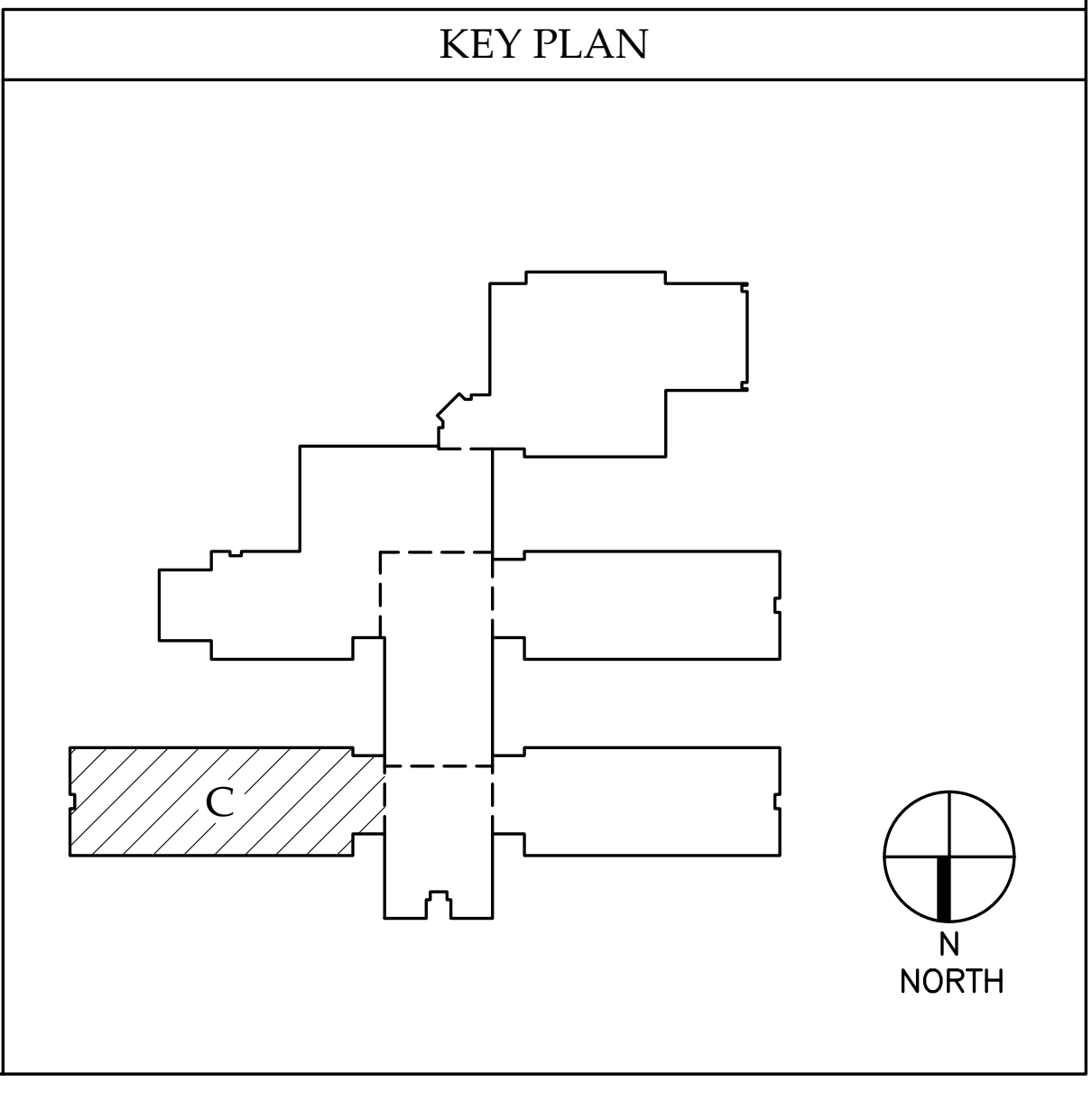
Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
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1 FLOOR PLAN - AREA C - HVAC DEMOLITION
 MD101 SCALE: 1/8" = 1'-0"



FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA C - HVAC DEMOLITION

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 Suite 200
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 Phone: (803) 254-6302

Sheet Number:
MD101

Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

HVAC DEMOLITION KEY NOTES

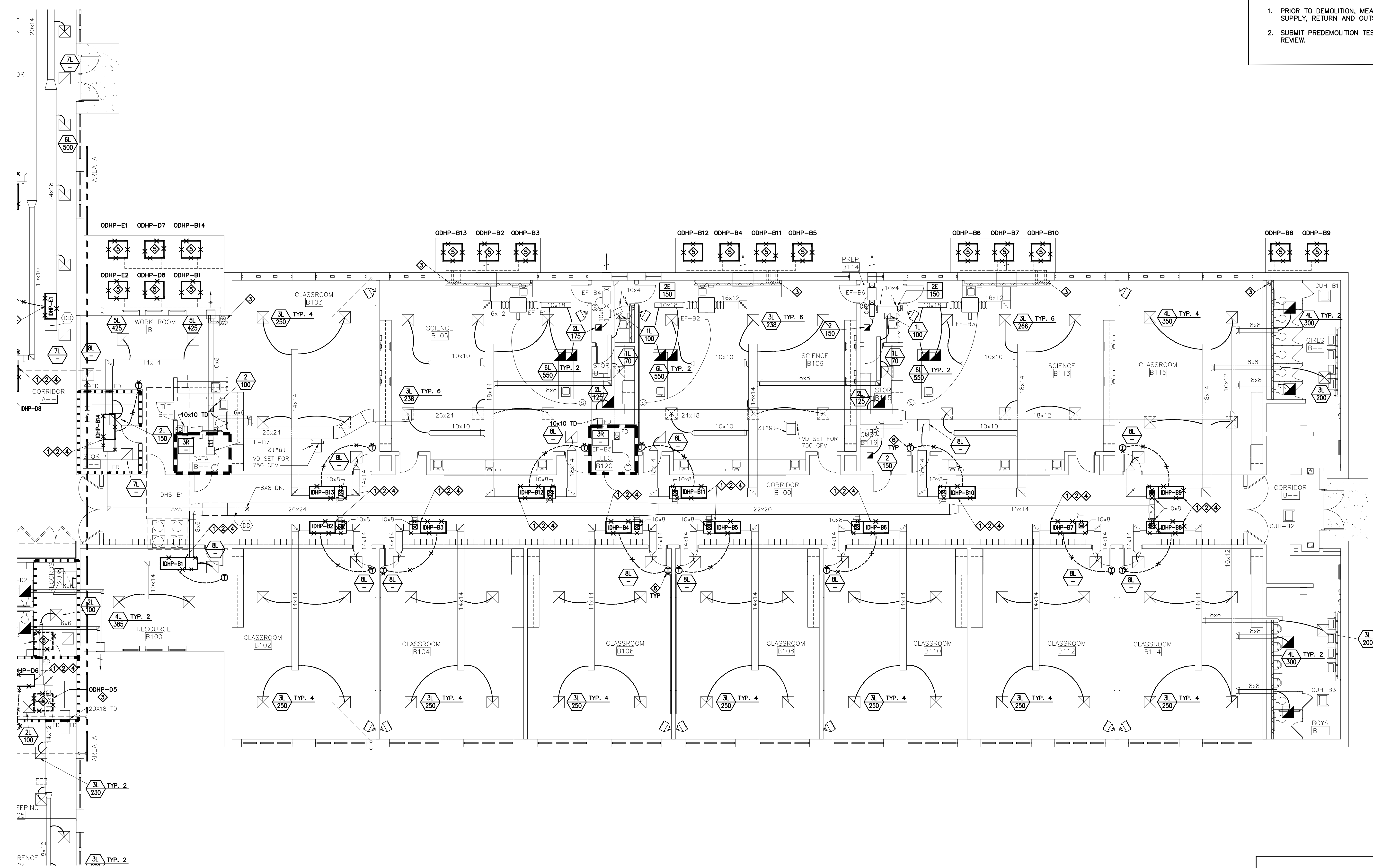
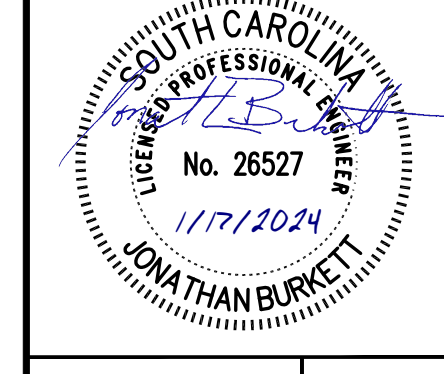
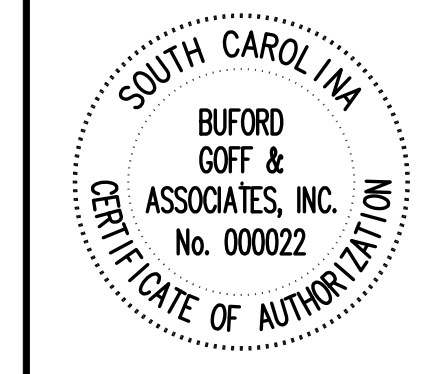
- DEMOLISH EXISTING UNIT ABOVE CEILING. INSPECT EXISTING SUPPORTS TO VERIFY PROPER ATTACHMENT TO THE STRUCTURE.
- DISCONNECT EXISTING UNIT DRAINS FROM UNIT AND TEMPORARILY CAP UNTIL THE NEW UNITS ARE INSTALLED.
- EVACUATE REFRIGERANT AND DEMOLISH EXISTING REFRIGERANT PIPING. TURN OVER RECOVERED REFRIGERANT TO OWNER.
- DEMOLISH OUTSIDE AIR DUCT AS REQUIRED FOR INSTALLATION OF NEW UNIT.
- DEMOLISH EXISTING CONDENSING UNIT ON GRADE.
- DEMOLISH EXISTING T-STAT ON WALL. REUSE EXISTING CONTROLS CONDUIT FOR NEW T-STAT.

TEST AND BALANCE

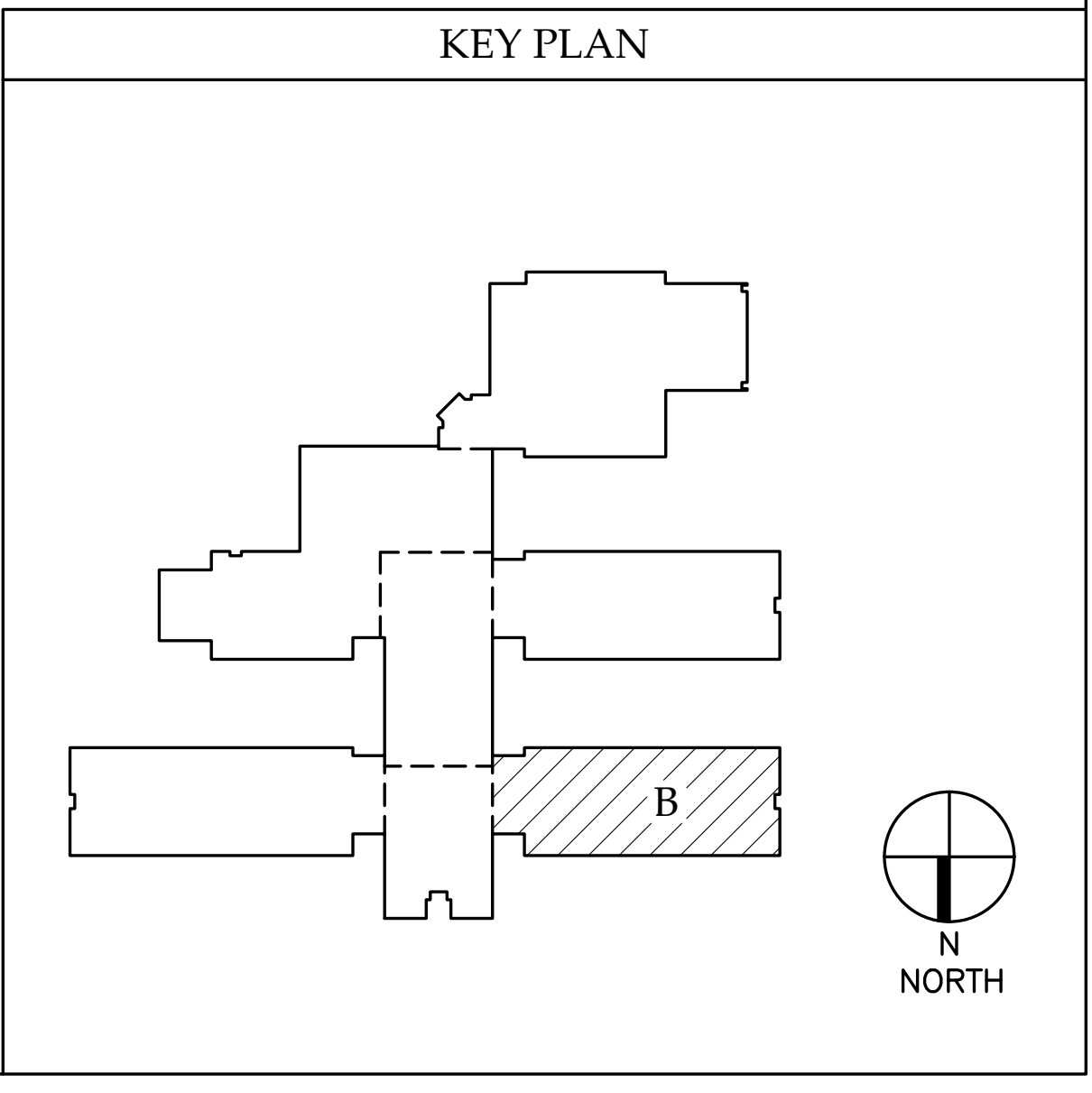
- PRIOR TO DEMOLITION, MEASURE EACH INDOOR HEAT PUMP UNIT'S SUPPLY, RETURN AND OUTSIDE AIR AIRFLOW.
- SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

Project Engineer:
JEB
Drawn By:
xxx
Revisions:
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
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1 FLOOR PLAN - AREA B - HVAC DEMOLITION
SCALE: 1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA B - HVAC DEMOLITION

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Sheet Number:
MD102

Date: JANUARY 17, 2024
Scale: As Noted
BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS

HVAC DEMOLITION KEY NOTES

- DEMOLISH EXISTING UNIT ABOVE CEILING. INSPECT EXISTING SUPPORTS TO VERIFY PROPER ATTACHMENT TO THE STRUCTURE.
- DISCONNECT EXISTING UNIT DRAINS FROM UNIT AND TEMPORARILY CAP UNTIL THE NEW UNITS ARE INSTALLED.
- EVACUATE REFRIGERANT AND DEMOLISH EXISTING REFRIGERANT PIPING. TURN OVER RECOVERED REFRIGERANT TO OWNER.
- DEMOLISH OUTSIDE AIR DUCT AS REQUIRED FOR INSTALLATION OF NEW UNIT.
- DEMOLISH EXISTING CONDENSING UNIT ON GRADE.
- DEMOLISH EXISTING T-STAT ON WALL. REUSE EXISTING CONTROLS CONDUIT FOR NEW T-STAT.

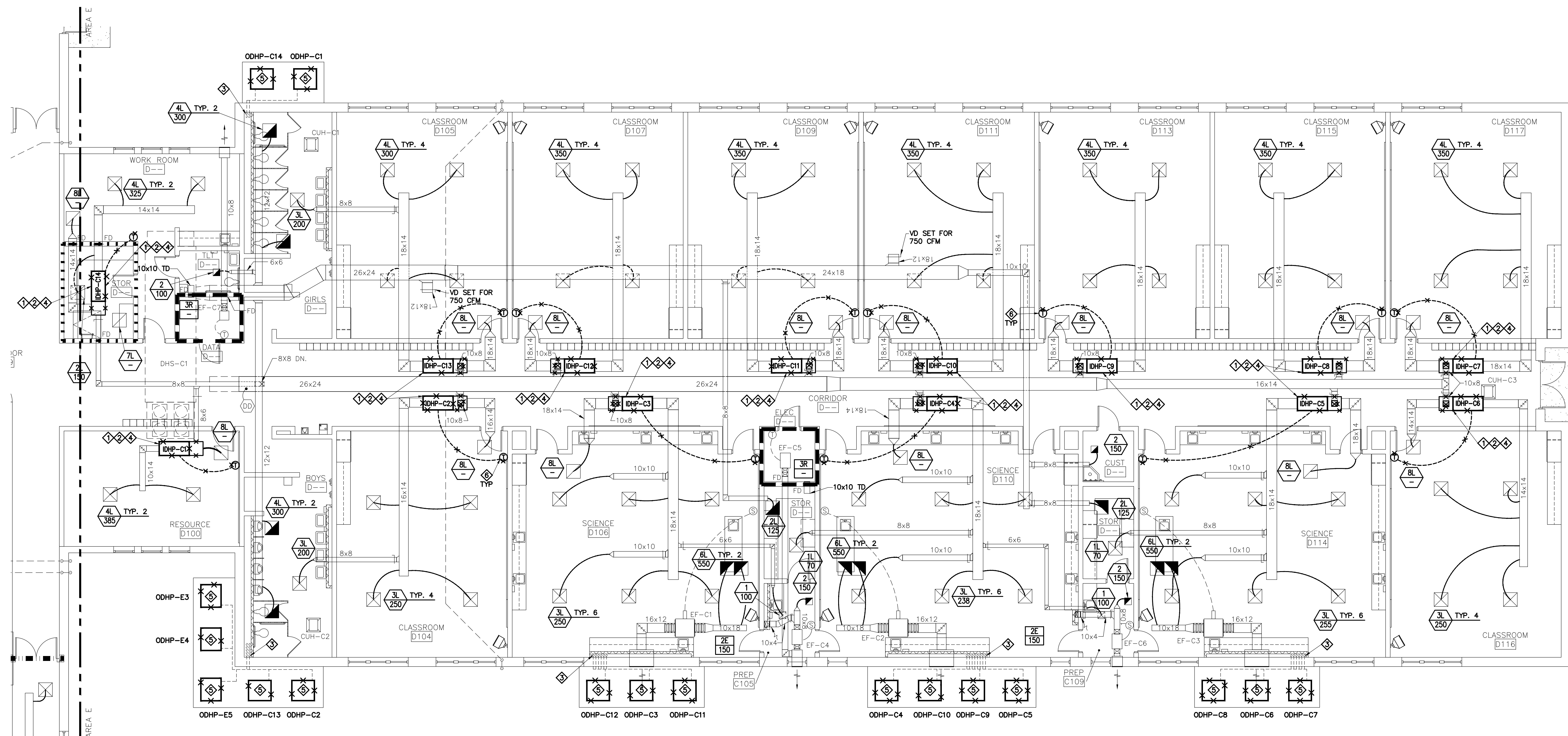
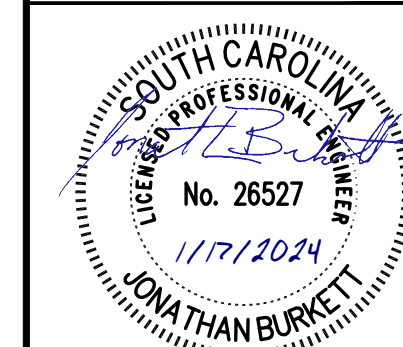
TEST AND BALANCE

- PRIOR TO DEMOLITION, MEASURE EACH INDOOR HEAT PUMP UNIT'S SUPPLY, RETURN AND OUTSIDE AIR AIRFLOW.
- SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

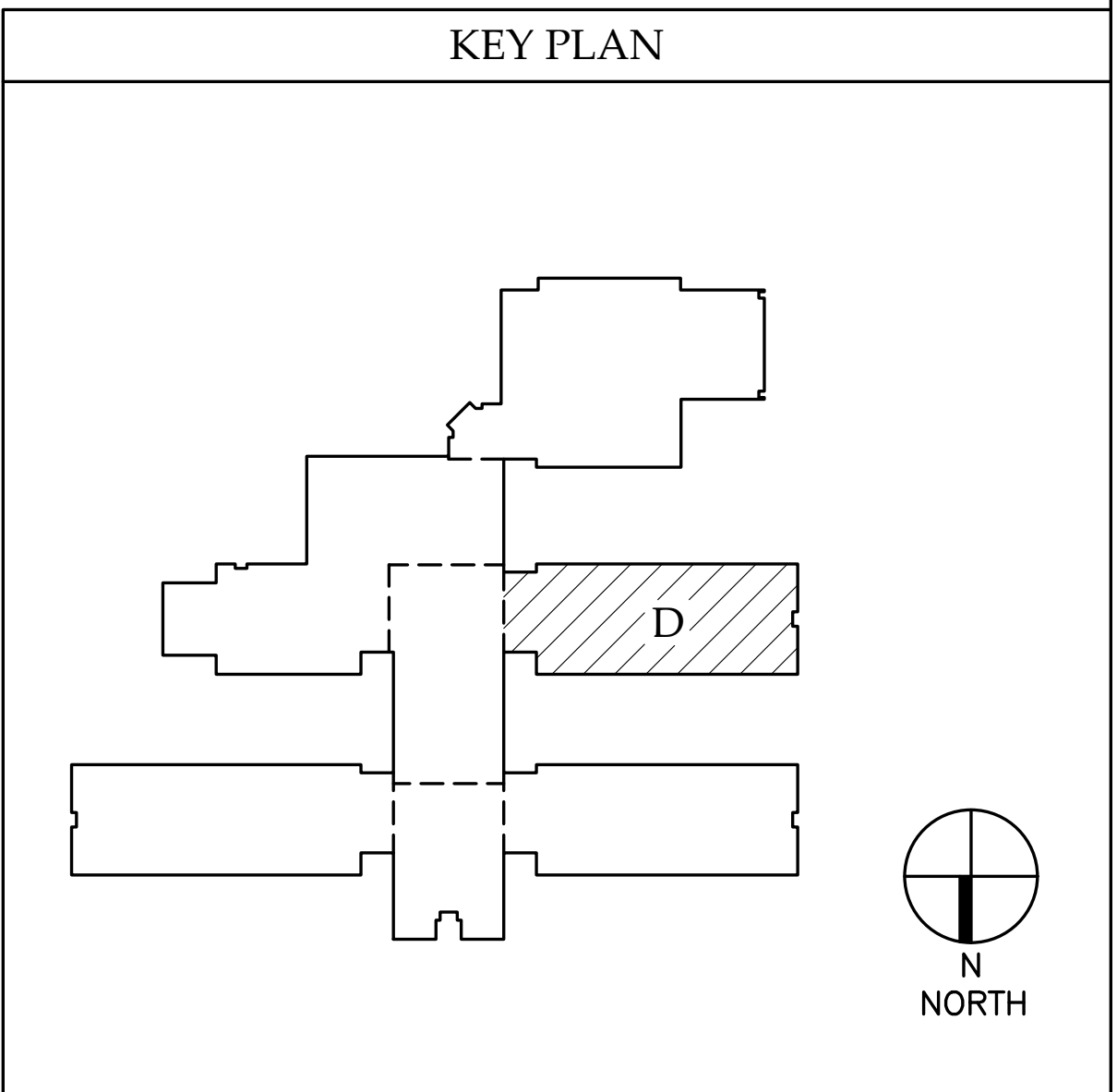
Project Engineer: JEB
 Drawn By: xxx
 Revisions:

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No.	Date
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No.	Date
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1 FLOOR PLAN - AREA D - HVAC DEMOLITION
 MD103 SCALE: 1/8" = 1'-0"

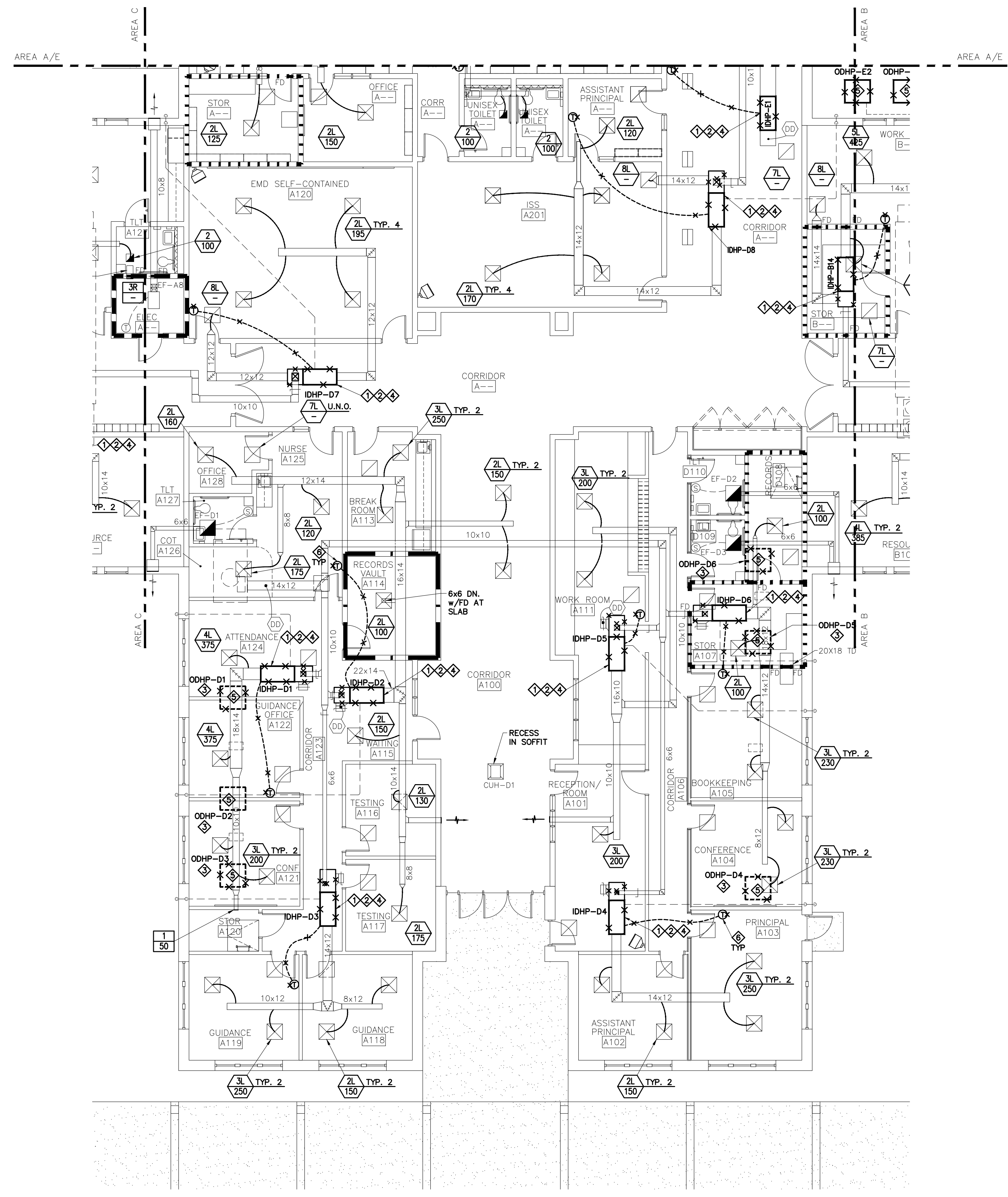


FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA D - HVAC DEMOLITION

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MD103

Date: JANUARY 17, 2024
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 BGA PROJECT NUMBER: 21040
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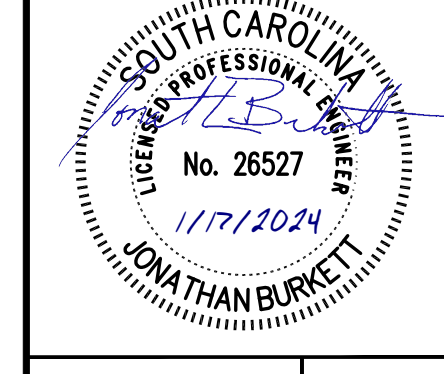
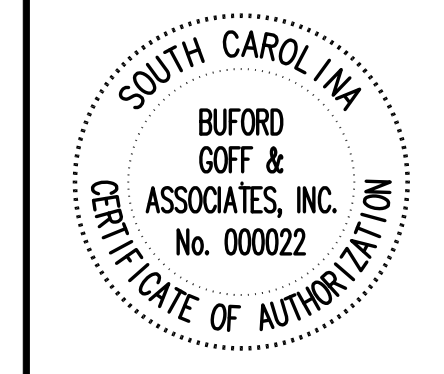
1 FLOOR PLAN - AREA A - HVAC DEMOLITION
 MD104 SCALE: 1/8" = 1'-0"

- HVAC DEMOLITION KEY NOTES**
- DEMOLISH EXISTING UNIT ABOVE CEILING. INSPECT EXISTING SUPPORTS TO VERIFY PROPER ATTACHMENT TO THE STRUCTURE.
 - DISCONNECT EXISTING UNIT DRAINS FROM UNIT AND TEMPORARILY CAP UNTIL THE NEW UNITS ARE INSTALLED.
 - EVACUATE REFRIGERANT AND DEMOLISH EXISTING REFRIGERANT PIPING. TURN OVER RECOVERED REFRIGERANT TO OWNER.
 - DEMOLISH OUTSIDE AIR DUCT AS REQUIRED FOR INSTALLATION OF NEW UNIT.
 - DEMOLISH EXISTING CONDENSING UNIT ON ROOF.
 - DEMOLISH EXISTING T-STAT ON WALL. REUSE EXISTING CONTROLS CONDUIT FOR NEW T-STAT.
- TEST AND BALANCE**
- PRIOR TO DEMOLITION, MEASURE EACH INDOOR HEAT PUMP UNIT'S SUPPLY, RETURN AND OUTSIDE AIR AIRFLOW.
 - SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

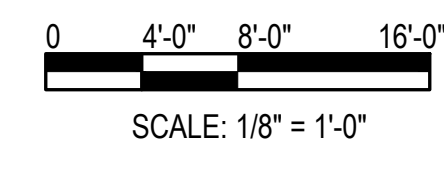
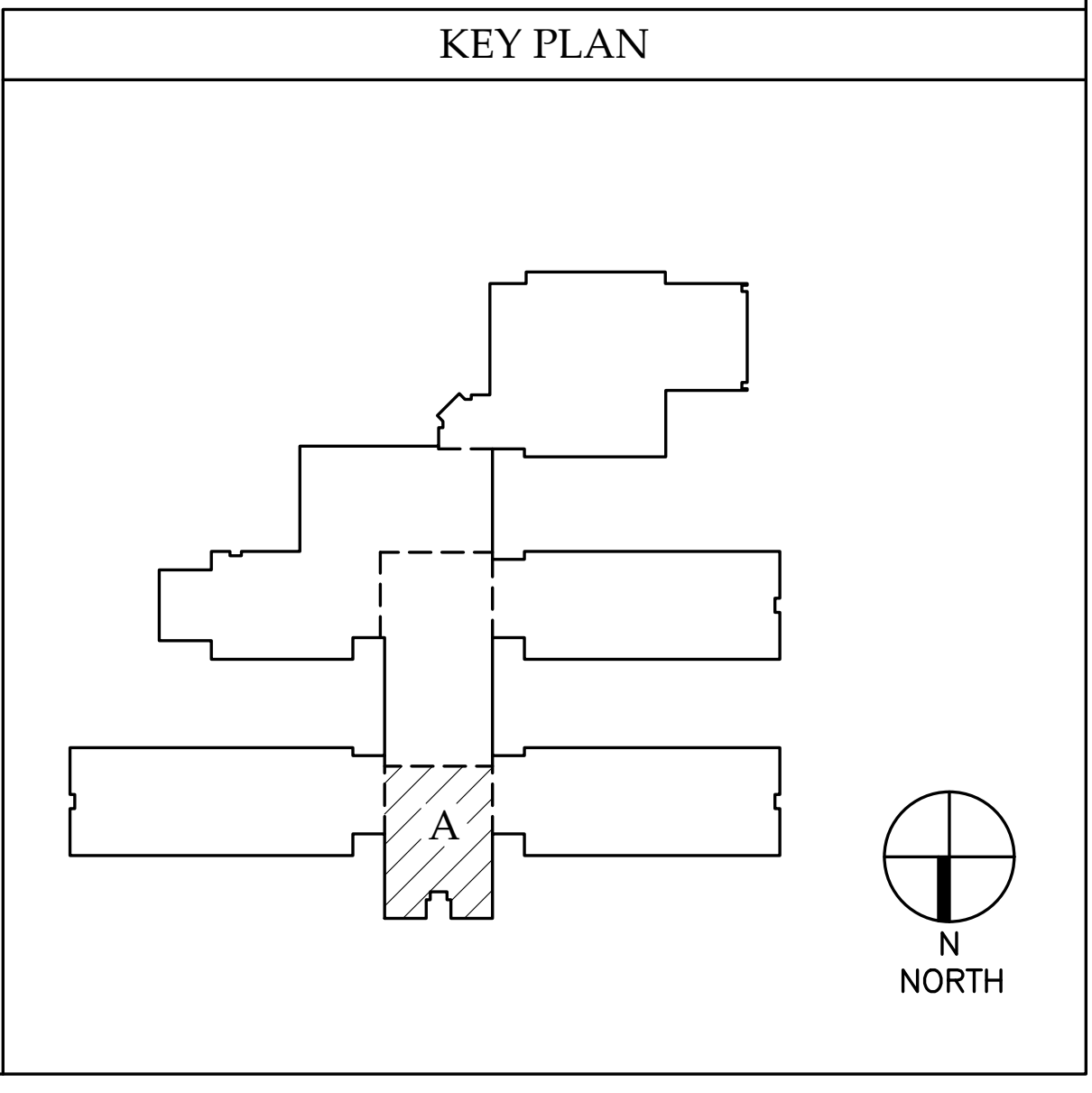
Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date
No.	Date
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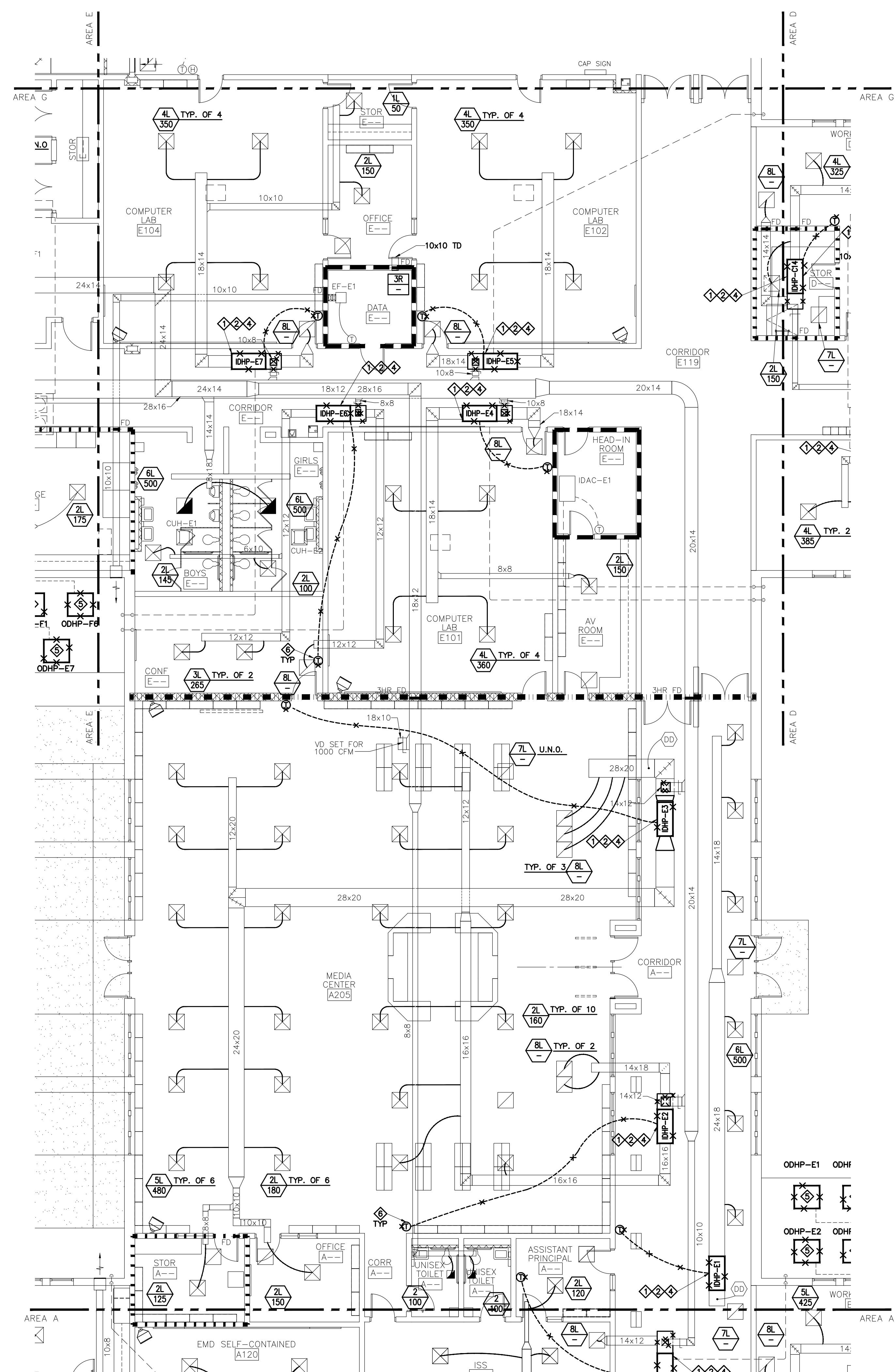
FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA A - HVAC DEMOLITION



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Date: JANUARY 17, 2024
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 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

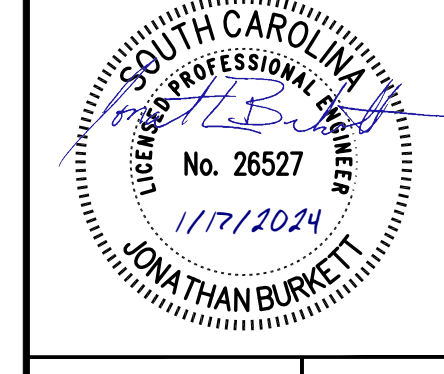
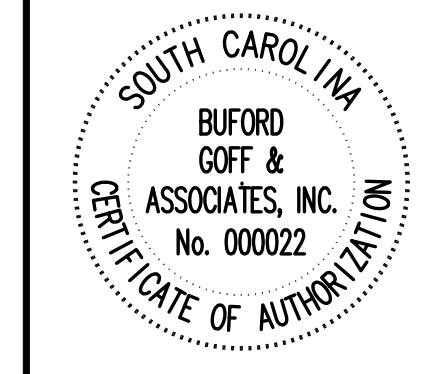


1
MD105
FLOOR PLAN - AREA A (CONT.) AND AREA E
- HVAC DEMOLITION
SCALE: 1/8" = 1'-0"

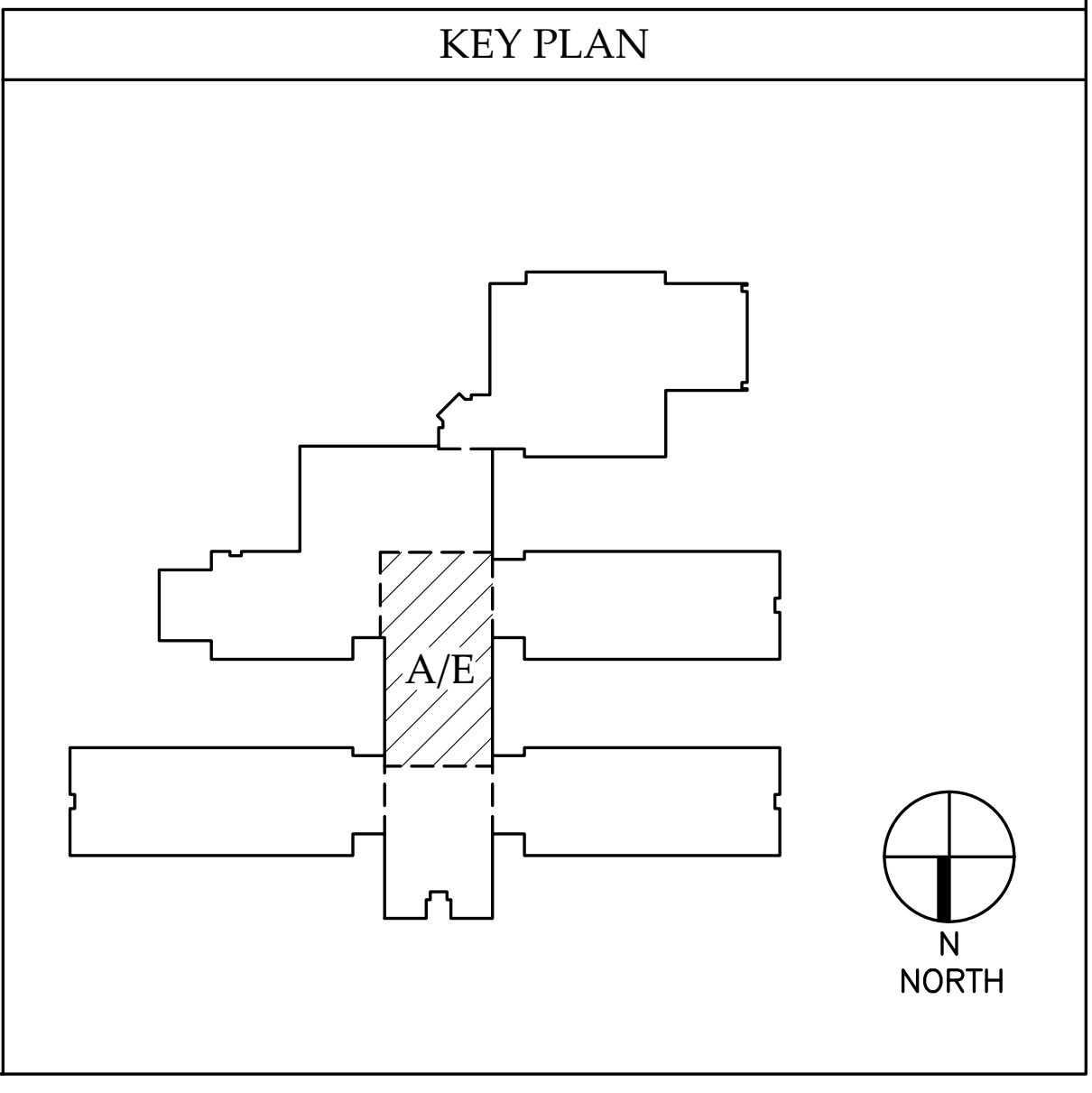
- HVAC DEMOLITION KEY NOTES**
- DEMOLISH EXISTING UNIT ABOVE CEILING. INSPECT EXISTING SUPPORTS TO VERIFY PROPER ATTACHMENT TO THE STRUCTURE.
 - DISCONNECT EXISTING UNIT DRAINS FROM UNIT AND TEMPORARILY CAP UNTIL THE NEW UNITS ARE INSTALLED.
 - EVACUATE REFRIGERANT AND DEMOLISH EXISTING REFRIGERANT PIPING. TURN OVER RECOVERED REFRIGERANT TO OWNER.
 - DEMOLISH OUTSIDE AIR DUCT AS REQUIRED FOR INSTALLATION OF NEW UNIT.
 - DEMOLISH EXISTING CONDENSING UNIT ON GRADE.
 - DEMOLISH EXISTING T-STAT ON WALL. REUSE EXISTING CONTROLS CONDUIT FOR NEW T-STAT.
- TEST AND BALANCE**
- PRIOR TO DEMOLITION, MEASURE EACH INDOOR HEAT PUMP UNIT'S SUPPLY, RETURN AND OUTSIDE AIR AIRFLOW.
 - SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

Project Engineer: JEB
 Drawn By: xxx
 Revisions:
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date

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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA A (CONT.) AND AREA E -
 HVAC DEMOLITION



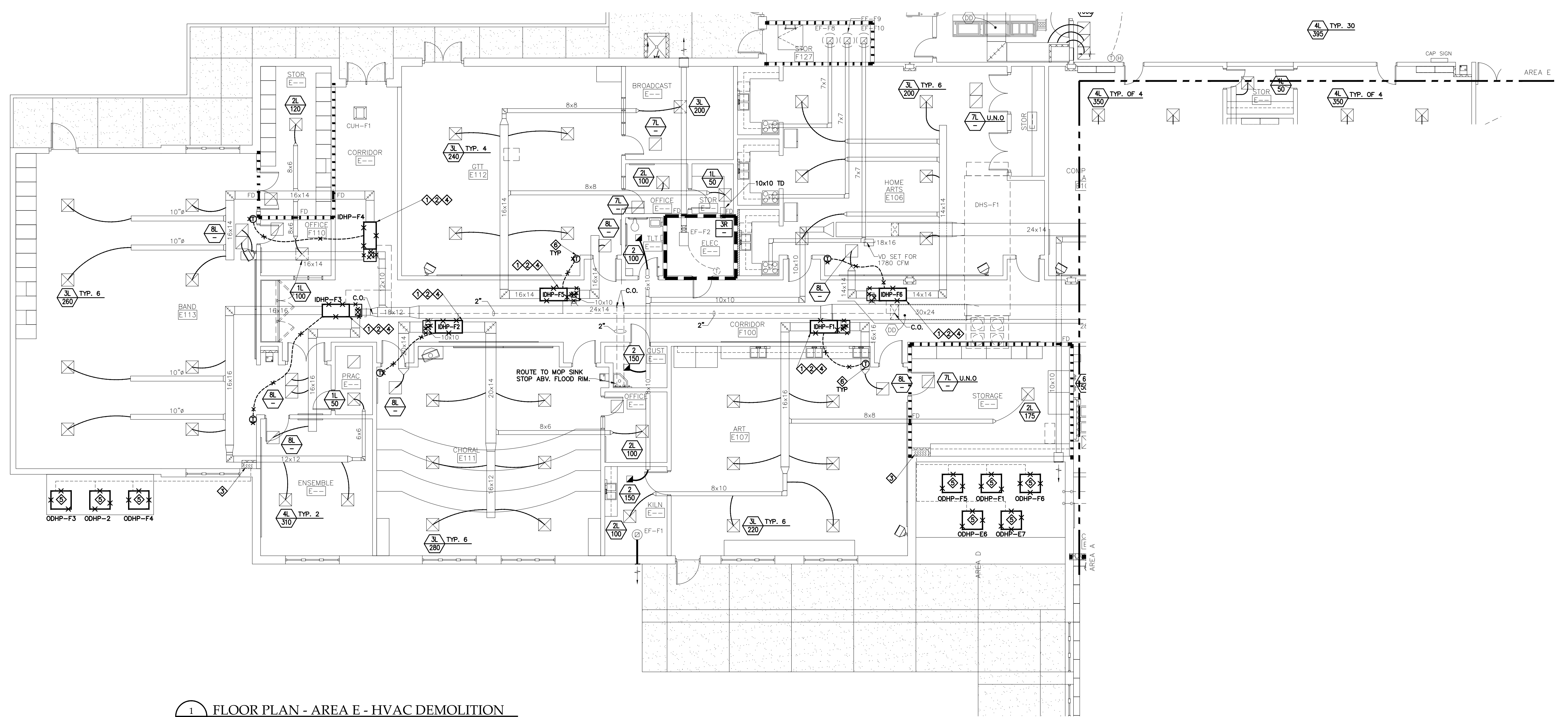
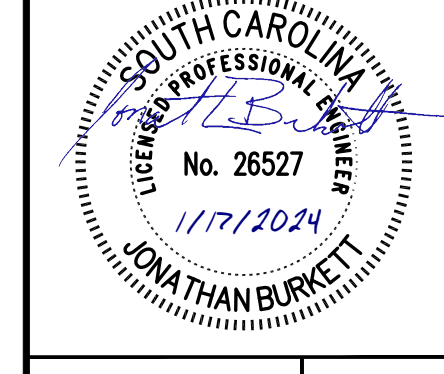
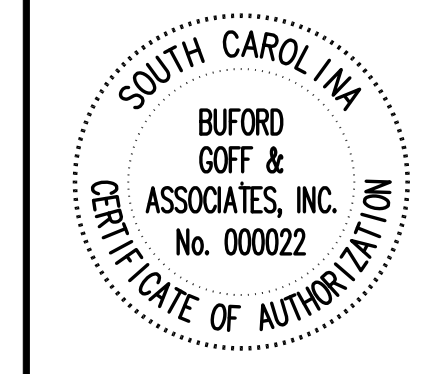
Project: Sheet Title:
Buford Goff & Associates, Inc.
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 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302
 Sheet Number:
MD105
 Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

- HVAC DEMOLITION KEY NOTES**
- DEMOLISH EXISTING UNIT ABOVE CEILING. INSPECT EXISTING SUPPORTS TO VERIFY PROPER ATTACHMENT TO THE STRUCTURE.
 - DISCONNECT EXISTING UNIT DRAINS FROM UNIT AND TEMPORARILY CAP UNTIL THE NEW UNITS ARE INSTALLED.
 - EVACUATE REFRIGERANT AND DEMOLISH EXISTING REFRIGERANT PIPING. TURN OVER RECOVERED REFRIGERANT TO OWNER.
 - DEMOLISH OUTSIDE AIR DUCT AS REQUIRED FOR INSTALLATION OF NEW UNIT.
 - DEMOLISH EXISTING CONDENSING UNIT ON GRADE.
 - DEMOLISH EXISTING T-STAT ON WALL. REUSE EXISTING CONTROLS CONDUIT FOR NEW T-STAT.
- TEST AND BALANCE**
- PRIOR TO DEMOLITION, MEASURE EACH INDOOR HEAT PUMP UNIT'S SUPPLY, RETURN AND OUTSIDE AIR AIRFLOW.
 - SUBMIT PREDEMOLITION TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW.

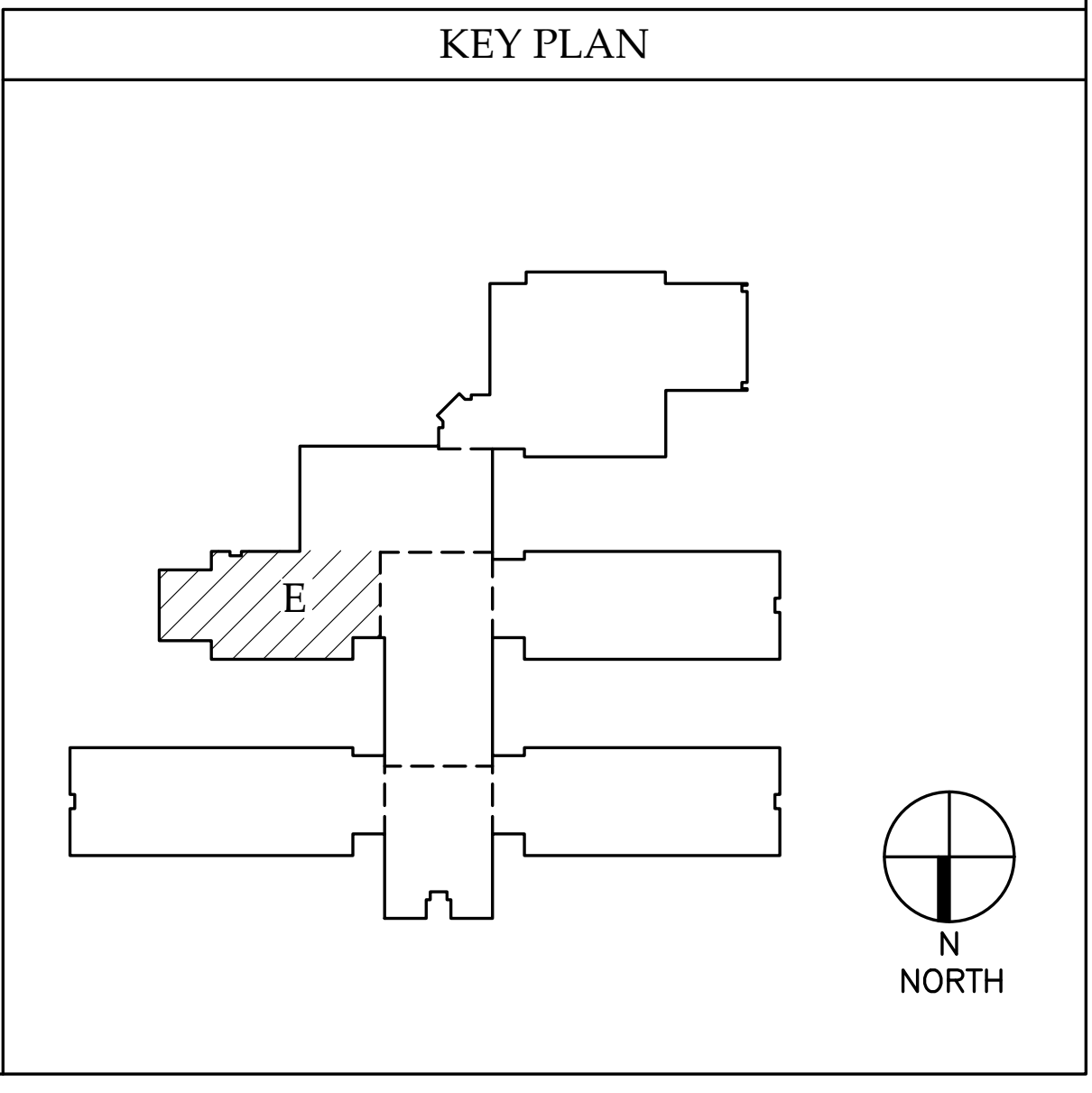
Project Engineer: JEB
 Drawn By: xxx
 Revisions:

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1 FLOOR PLAN - AREA E - HVAC DEMOLITION
 SCALE: 1/8" = 1'-0"



Project: FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 Sheet Title: FLOOR PLAN - AREA E - HVAC DEMOLITION

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 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

Sheet Number:
MD106

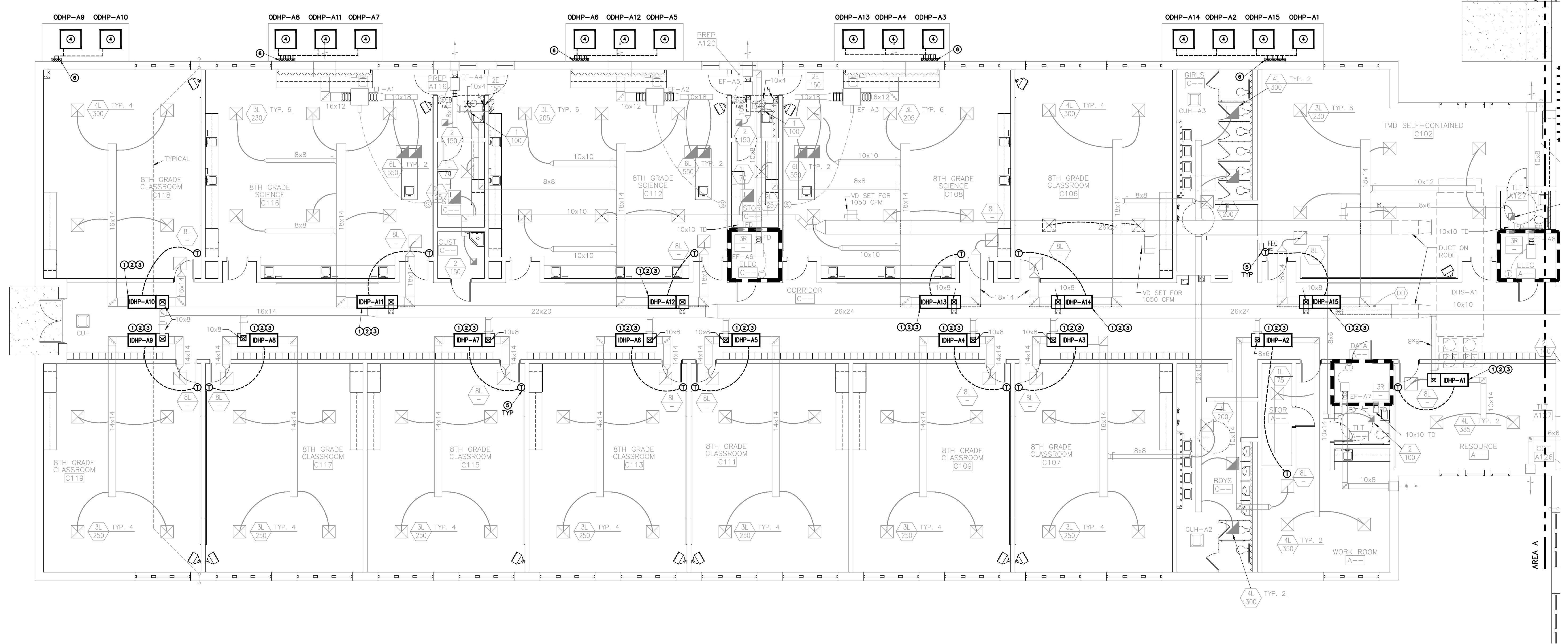
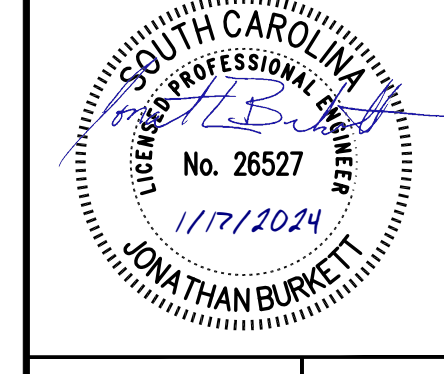
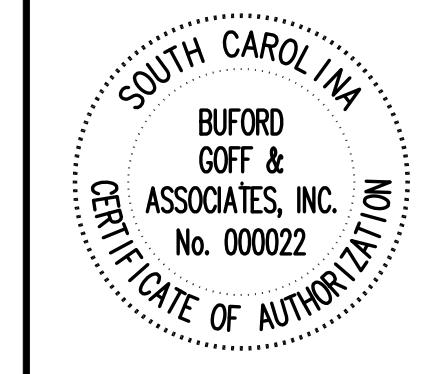
Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

- HVAC RENOVATION KEY NOTES**
1. INSTALL NEW UNITS IN SAME APPROXIMATE LOCATION AS EXISTING UNIT.
 2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO EXISTING DRAIN LINE. VERIFY THAT EXISTING DRAIN LINE IS PROPERLY DRAINING. REUSE EXISTING AUXILIARY DRAIN PAN.
 3. RECONNECT OUTSIDE AIR AND RETURN DUCT TO NEW UNIT RETURN PLENUM. RECONNECT SUPPLY DUCT TO NEW UNIT. FIELD VERIFY EXISTING DUCT SIZES AND TRANSITION AS REQUIRED.
 4. INSTALL NEW CONDENSING UNIT ON EXISTING EQUIPMENT PAD. SECURE UNIT TO PAD.
 5. INSTALL NEW THERMOSTAT. PROVIDE NEW CONTROL WIRING AND CONTROLLERS. REUSE EXISTING CONTROLS CONDUIT DOWN IN WALL FOR NEW THERMOSTAT.
 6. ROUTE NEW REFRIGERANT PIPING UP EXTERIOR WALL IN ENCLOSURE AND THROUGH EXISTING WALL (TO A POINT ABOVE THE ROOM'S CEILING) TO CORRESPONDING IDHP ABOVE CEILING.

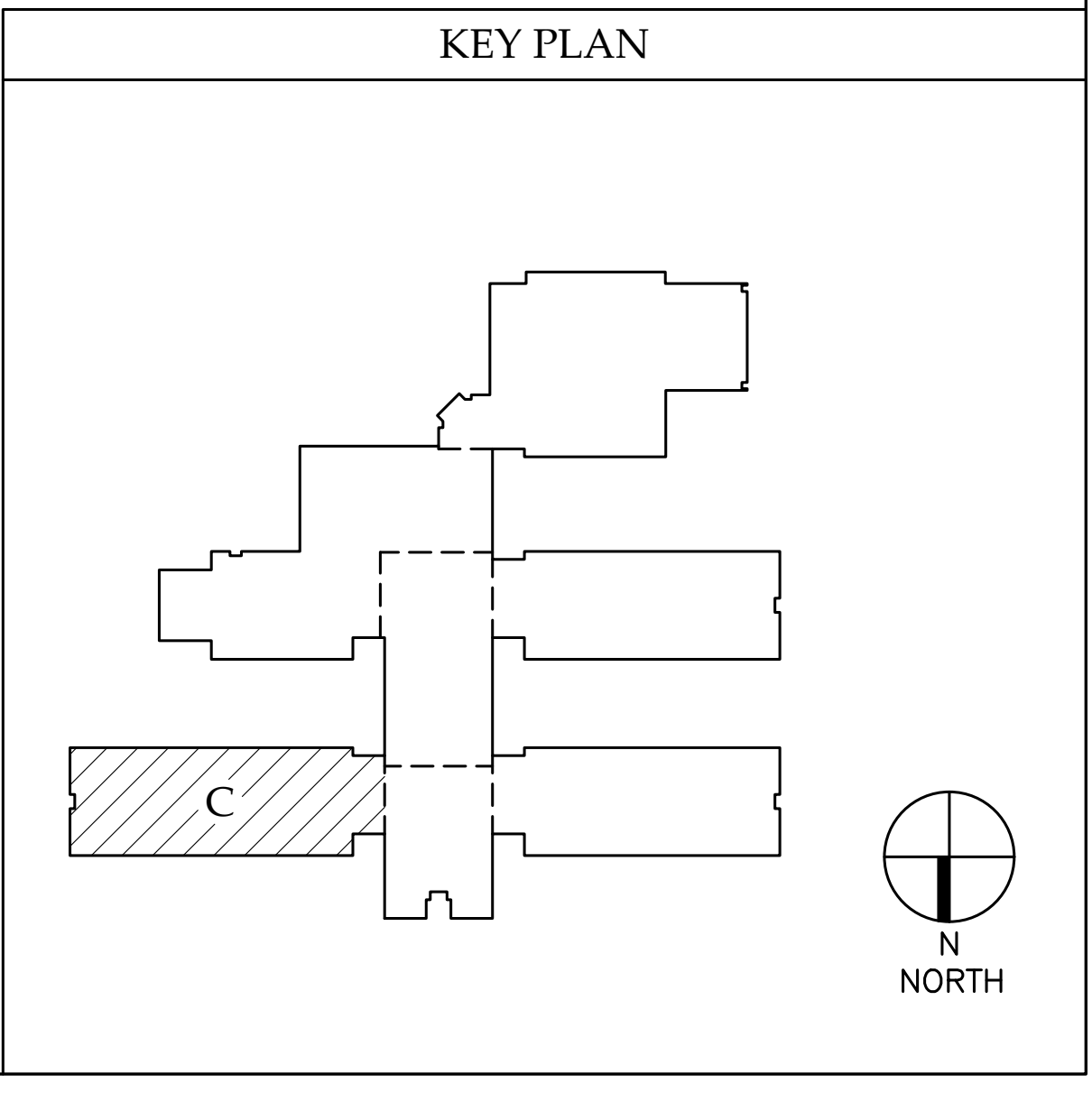
Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
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No.	Date

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1 FLOOR PLAN - AREA C - HVAC RENOVATION
 SCALE: 1/8" = 1'-0"



FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA C - HVAC RENOVATION

Project: _____
 Sheet Title: _____

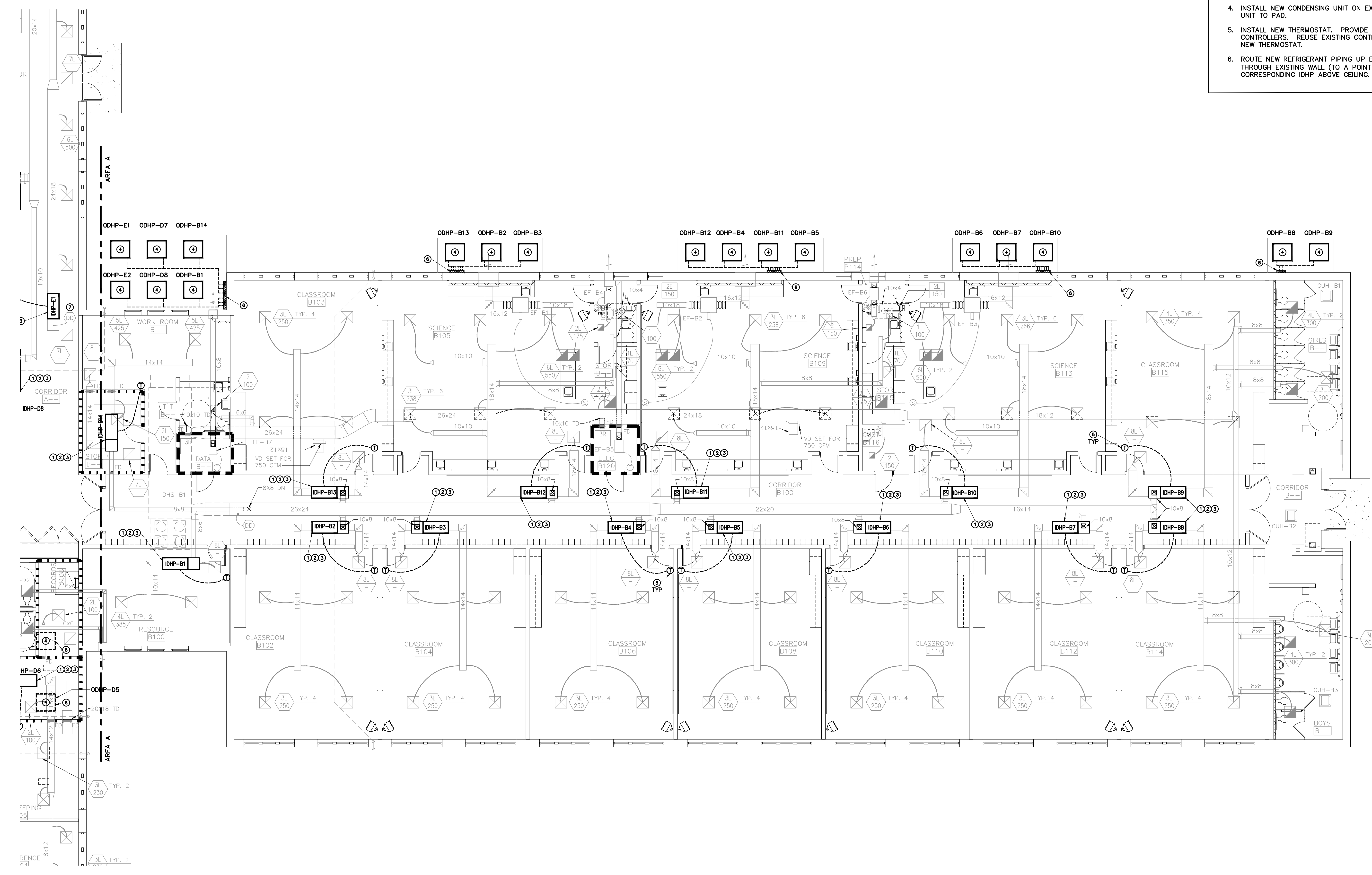
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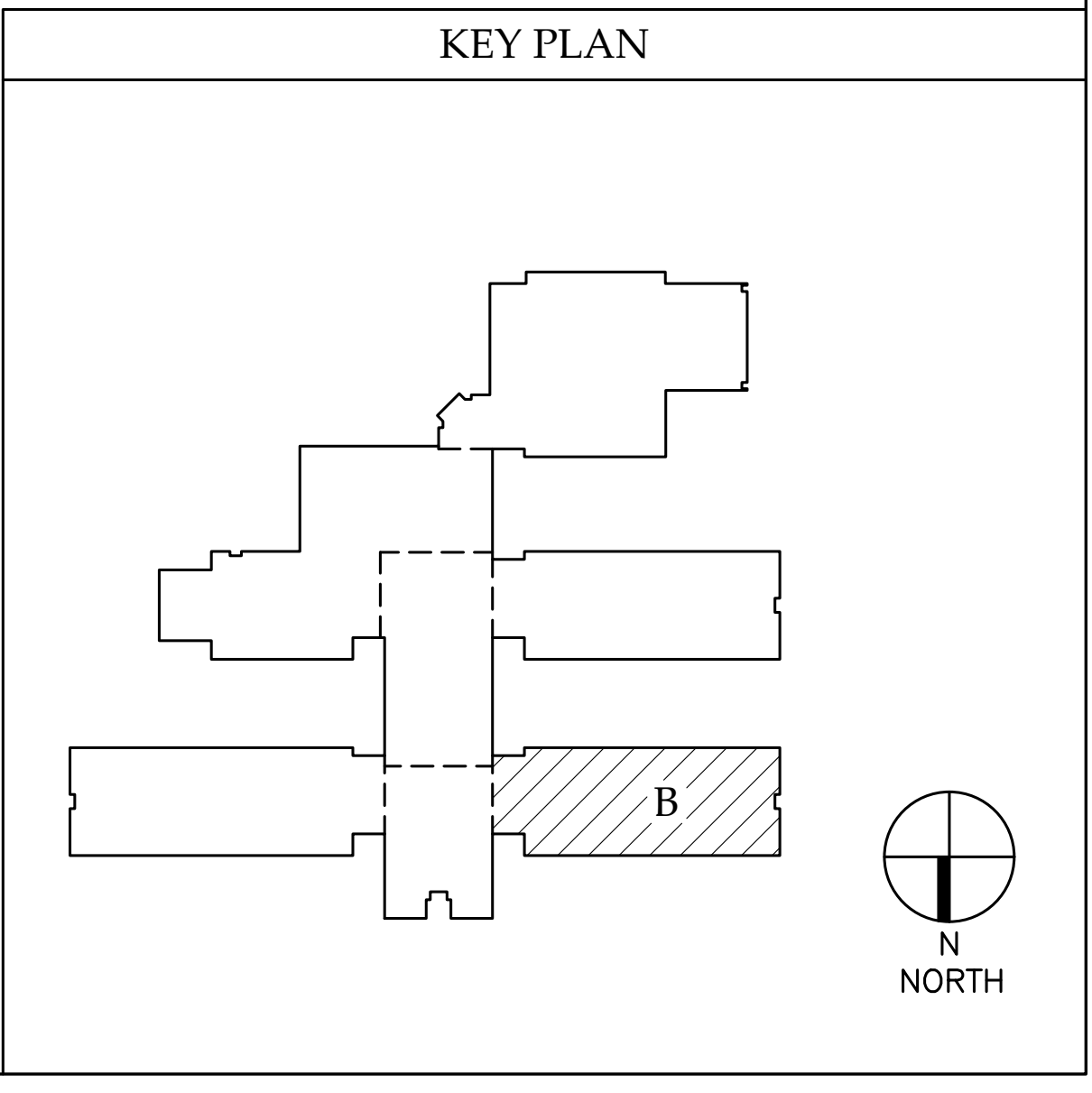
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M101

Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

- HVAC RENOVATION KEY NOTES**
1. INSTALL NEW UNITS IN SAME APPROXIMATE LOCATION AS EXISTING UNIT.
 2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO EXISTING DRAIN LINE. VERIFY THAT EXISTING DRAIN LINE IS PROPERLY DRAINING. REUSE EXISTING AUXILIARY DRAIN PAN.
 3. RECONNECT OUTSIDE AIR AND RETURN DUCT TO NEW UNIT RETURN PLENUM. RECONNECT SUPPLY DUCT TO NEW UNIT. FIELD VERIFY EXISTING DUCT SIZES AND TRANSITION AS REQUIRED.
 4. INSTALL NEW CONDENSING UNIT ON EXISTING EQUIPMENT PAD. SECURE UNIT TO PAD.
 5. INSTALL NEW THERMOSTAT. PROVIDE NEW CONTROL WIRING AND CONTROLLERS. REUSE EXISTING CONTROLS CONDUIT DOWN IN WALL FOR NEW THERMOSTAT.
 6. ROUTE NEW REFRIGERANT PIPING UP EXTERIOR WALL IN ENCLOSURE AND THROUGH EXISTING WALL (TO A POINT ABOVE THE ROOM'S CEILING) TO CORRESPONDING IDHP ABOVE CEILING.



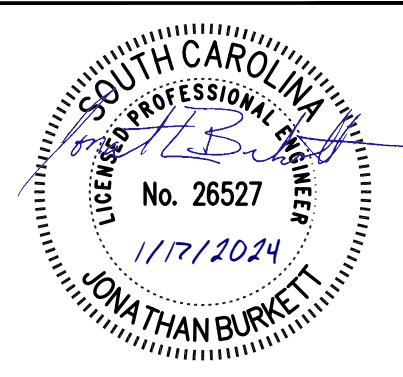
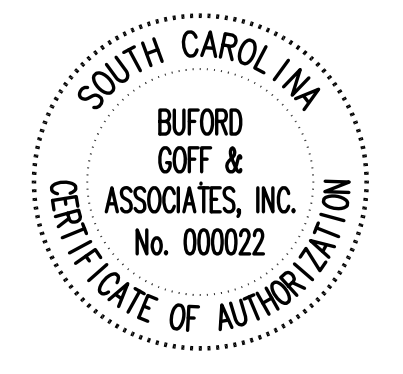
1 FLOOR PLAN - AREA B - HVAC RENOVATION
SCALE: 1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

Project Engineer: JEB
Drawn By: xxx
Revisions:
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA B - HVAC RENOVATION

Project: _____
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M102
 Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

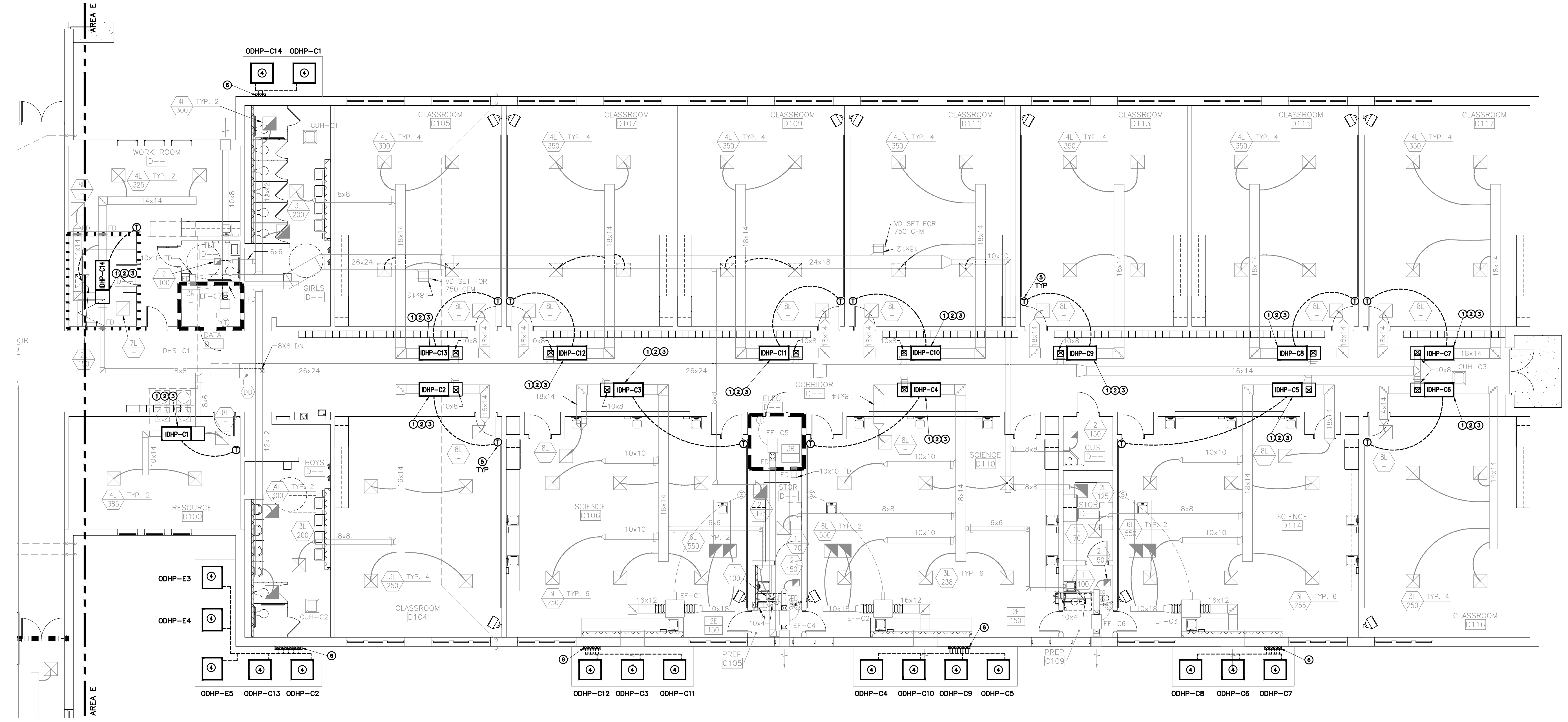
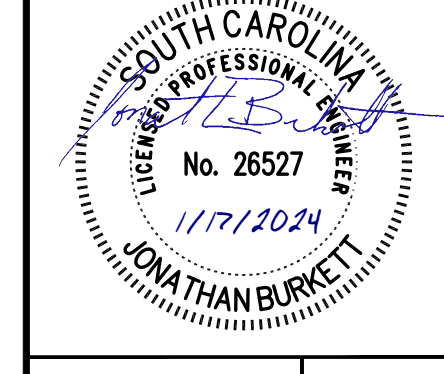
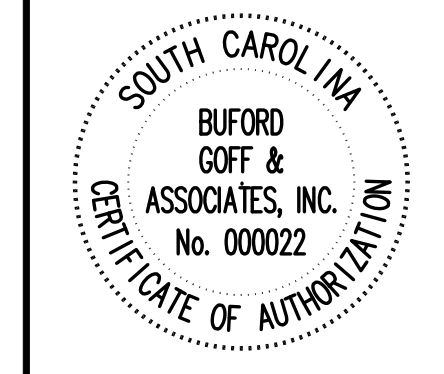
HVAC RENOVATION KEY NOTES

1. INSTALL NEW UNITS IN SAME APPROXIMATE LOCATION AS EXISTING UNIT.
2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO EXISTING DRAIN LINE. VERIFY THAT EXISTING DRAIN LINE IS PROPERLY DRAINING. REUSE EXISTING AUXILIARY DRAIN PAN.
3. RECONNECT OUTSIDE AIR AND RETURN DUCT TO NEW UNIT RETURN PLENUM. RECONNECT SUPPLY DUCT TO NEW UNIT. FIELD VERIFY EXISTING DUCT SIZES AND TRANSITION AS REQUIRED.
4. INSTALL NEW CONDENSING UNIT ON EXISTING EQUIPMENT PAD. SECURE UNIT TO PAD.
5. INSTALL NEW THERMOSTAT. PROVIDE NEW CONTROL WIRING AND CONTROLLERS. REUSE EXISTING CONTROLS CONDUIT DOWN IN WALL FOR NEW THERMOSTAT.
6. ROUTE NEW REFRIGERANT PIPING UP EXTERIOR WALL IN ENCLOSURE AND THROUGH EXISTING WALL (TO A POINT ABOVE THE ROOM'S CEILING) TO CORRESPONDING IDHP ABOVE CEILING.

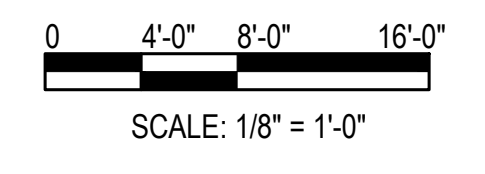
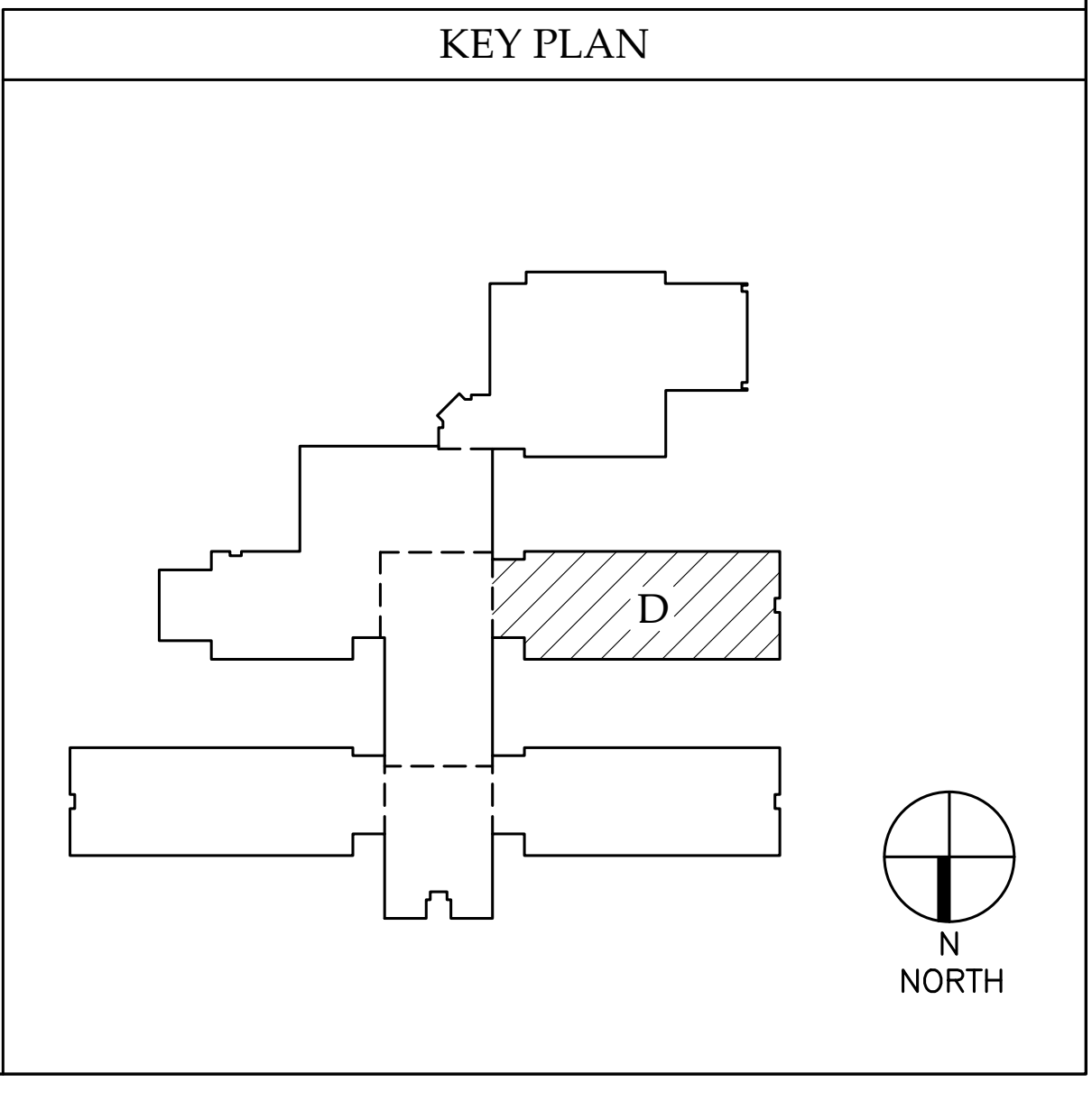
Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date
No.	Date
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No.	Date

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1 FLOOR PLAN - AREA D - HVAC RENOVATION
 SCALE: 1/8" = 1'-0"



FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA D - HVAC RENOVATION

Project: _____
 Sheet Title: _____

Buford Goff & Associates, Inc.
 Engineers & Planners

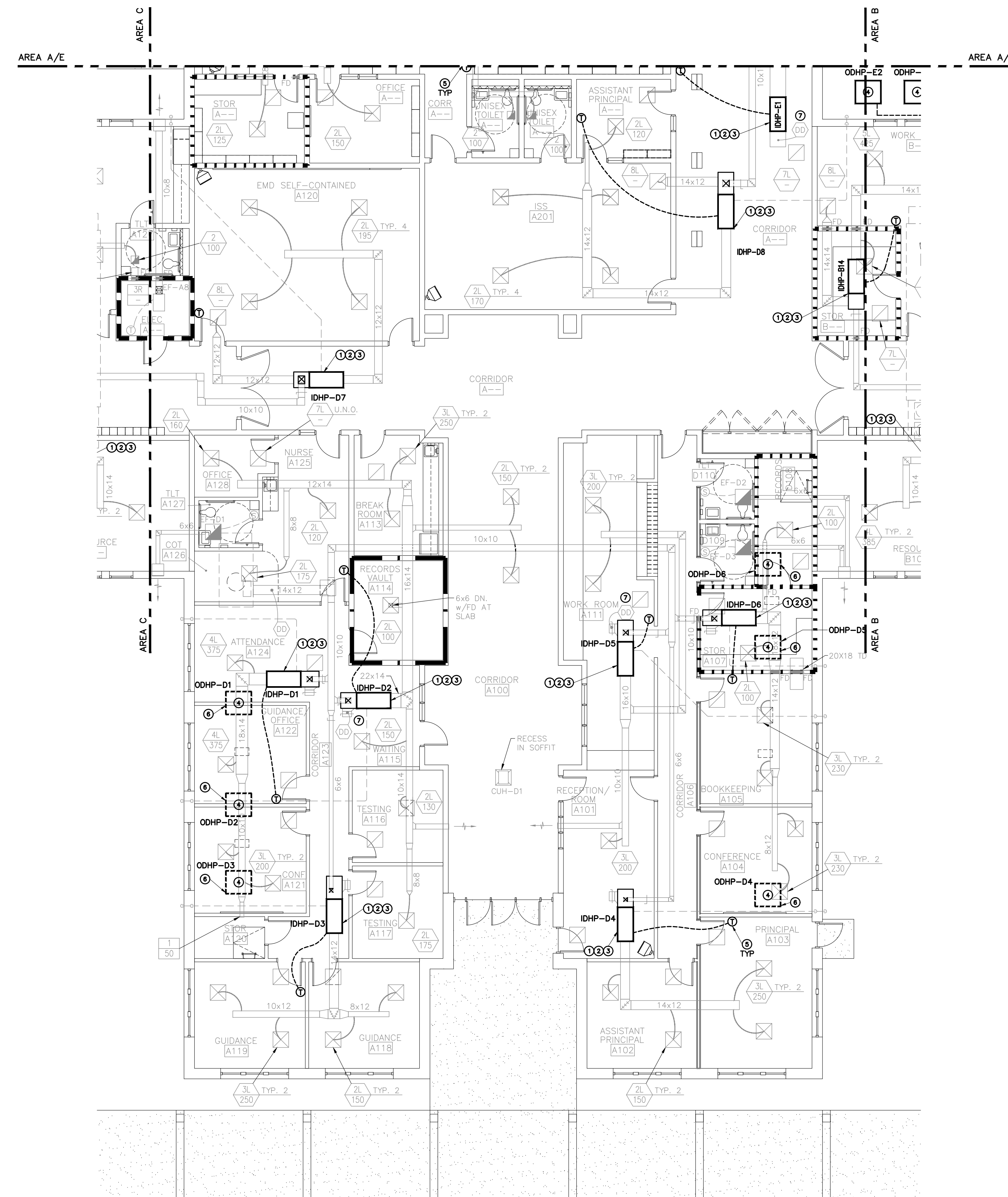
1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
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Sheet Number:
M103

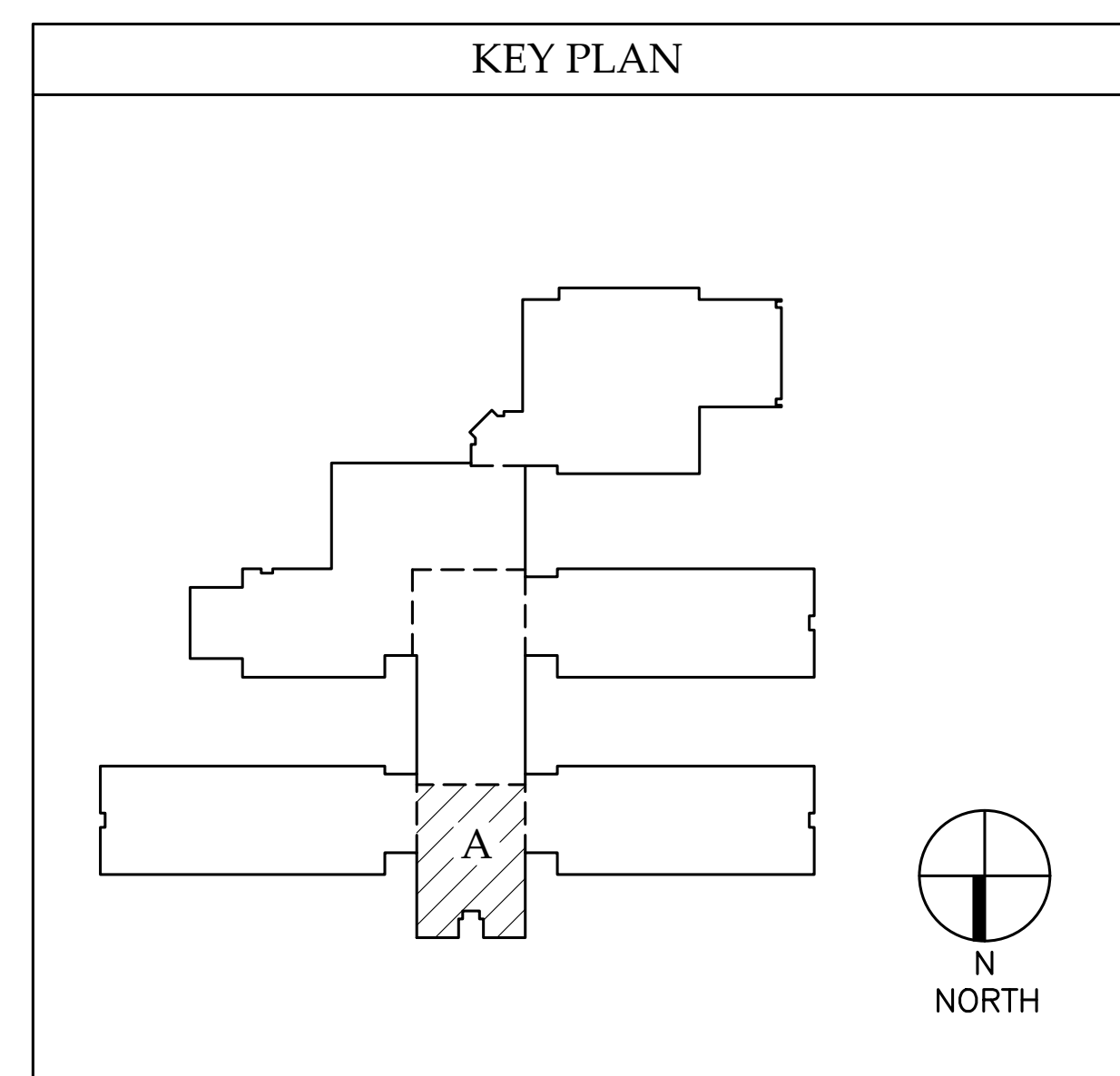
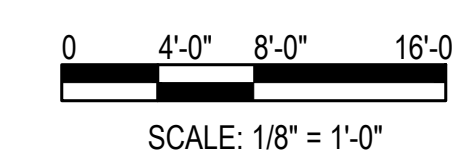
Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

HVAC RENOVATION KEY NOTES

1. INSTALL NEW UNITS IN SAME APPROXIMATE LOCATION AS EXISTING UNIT.
2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO EXISTING DRAIN LINE. VERIFY THAT EXISTING DRAIN LINE IS PROPERLY DRAINING. REUSE EXISTING AUXILIARY DRAIN PAN.
3. RECONNECT OUTSIDE AIR AND RETURN DUCT TO NEW UNIT RETURN PLENUM. RECONNECT SUPPLY DUCT TO NEW UNIT. FIELD VERIFY EXISTING DUCT SIZES AND TRANSITION AS REQUIRED.
4. INSTALL NEW CONDENSING UNIT ON EXISTING ROOF CURB. SECURE UNIT TO EXISTING CURB.
5. INSTALL NEW THERMOSTAT. PROVIDE NEW CONTROL WIRING AND CONTROLLERS. REUSE EXISTING CONTROLS CONDUIT DOWN IN WALL FOR NEW THERMOSTAT.
6. ROUTE NEW REFRIGERANT PIPING THROUGH ROOF TO CORRESPONDING ODHP ON ROOF. REUSE EXISTING ROOF CURB AND RESEAL CURB AFTER PIPE ROUTING.
7. TEST EXISTING SMOKE DETECTOR AND VERIFY PROPER FUNCTION.



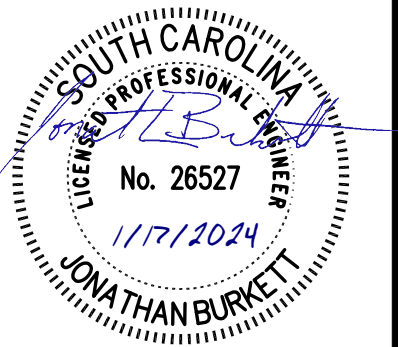
1 FLOOR PLAN - AREA A - HVAC RENOVATION
SCALE: 1/8" = 1'-0"



Project Engineer: JEB
 Drawn By: xxx
 Revisions:

No.	Date	Description

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FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA A - HVAC RENOVATION

Project: _____
 Sheet Title: _____

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Sheet Number:
M104

Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

Ⓜ HVAC RENOVATION KEY NOTES

1. INSTALL NEW UNITS IN SAME APPROXIMATE LOCATION AS EXISTING UNIT.
2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO EXISTING DRAIN LINE. VERIFY THAT EXISTING DRAIN LINE IS PROPERLY DRAINING. REUSE EXISTING AUXILIARY DRAIN PAN.
3. RECONNECT OUTSIDE AIR AND RETURN DUCT TO NEW UNIT RETURN PLENUM. RECONNECT SUPPLY DUCT TO NEW UNIT. FIELD VERIFY EXISTING DUCT SIZES AND TRANSITION AS REQUIRED.
4. INSTALL NEW CONDENSING UNIT ON EXISTING EQUIPMENT PAD. SECURE UNIT TO PAD.
5. INSTALL NEW THERMOSTAT. PROVIDE NEW CONTROL WIRING AND CONTROLLERS. REUSE EXISTING CONTROLS CONDUIT DOWN IN WALL FOR NEW THERMOSTAT.
6. ROUTE NEW REFRIGERANT PIPING UP EXTERIOR WALL IN ENCLOSURE AND THROUGH EXISTING WALL (TO A POINT ABOVE THE ROOM'S CEILING) TO CORRESPONDING IDHP ABOVE CEILING.
7. TEST EXISTING SMOKE DETECTOR AND VERIFY PROPER FUNCTION.

Project Engineer:
JEB

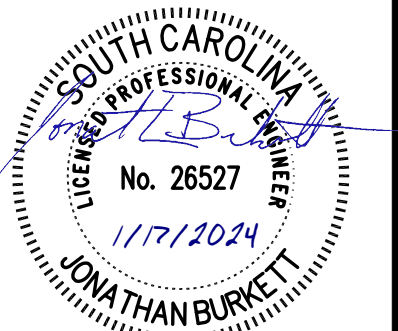
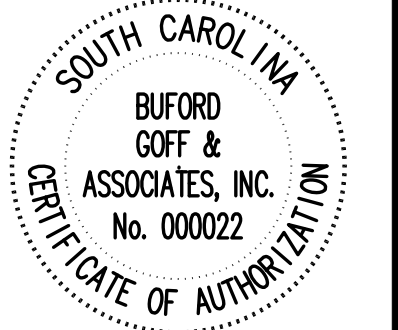
Drawn By:
xxx

Revisions:

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No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	
No.	Date	

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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA A (CONT.) AND AREA E -
 HVAC RENOVATION

Project
Sheet Title

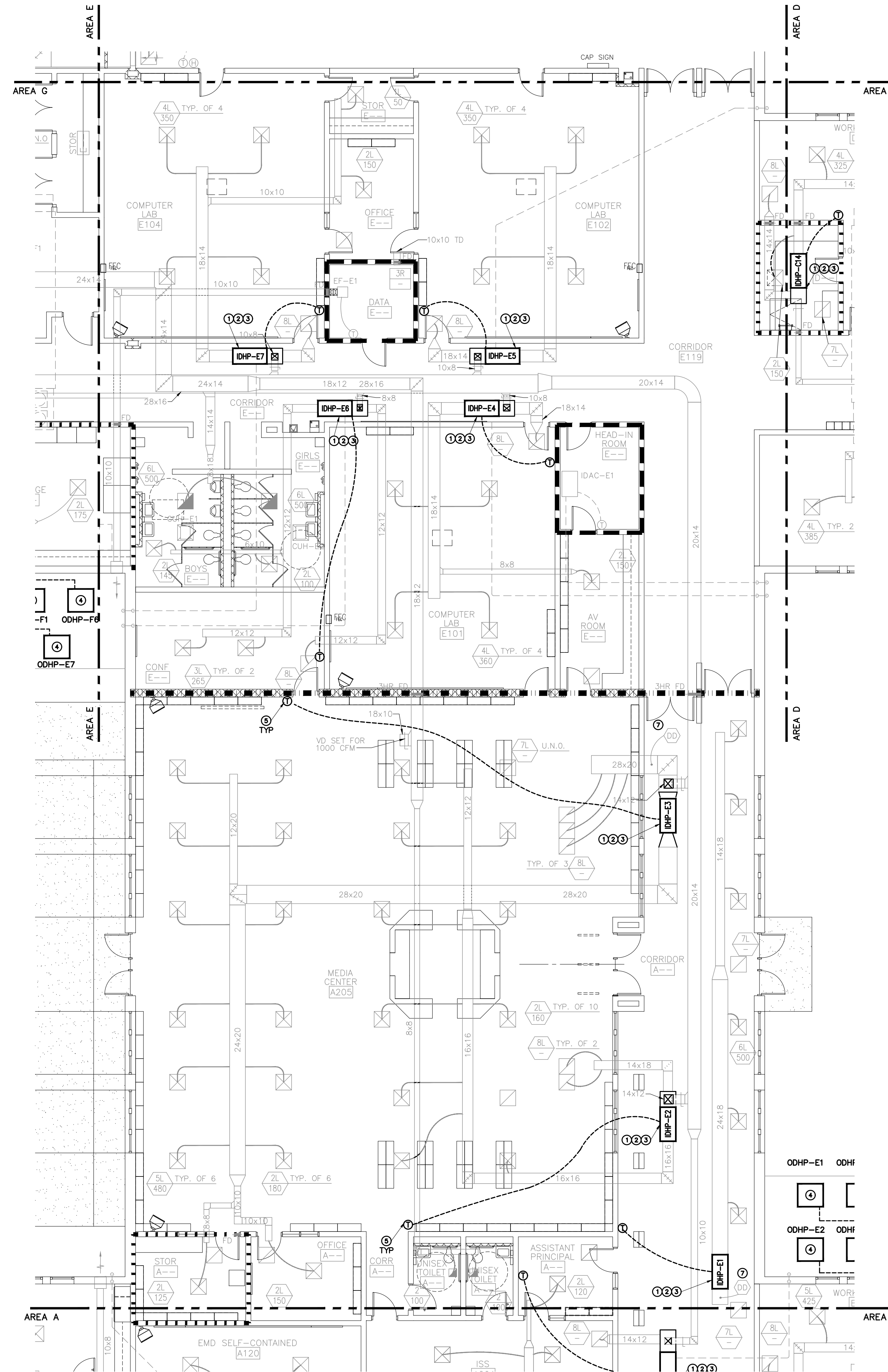
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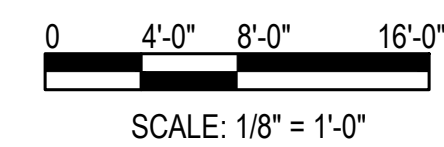
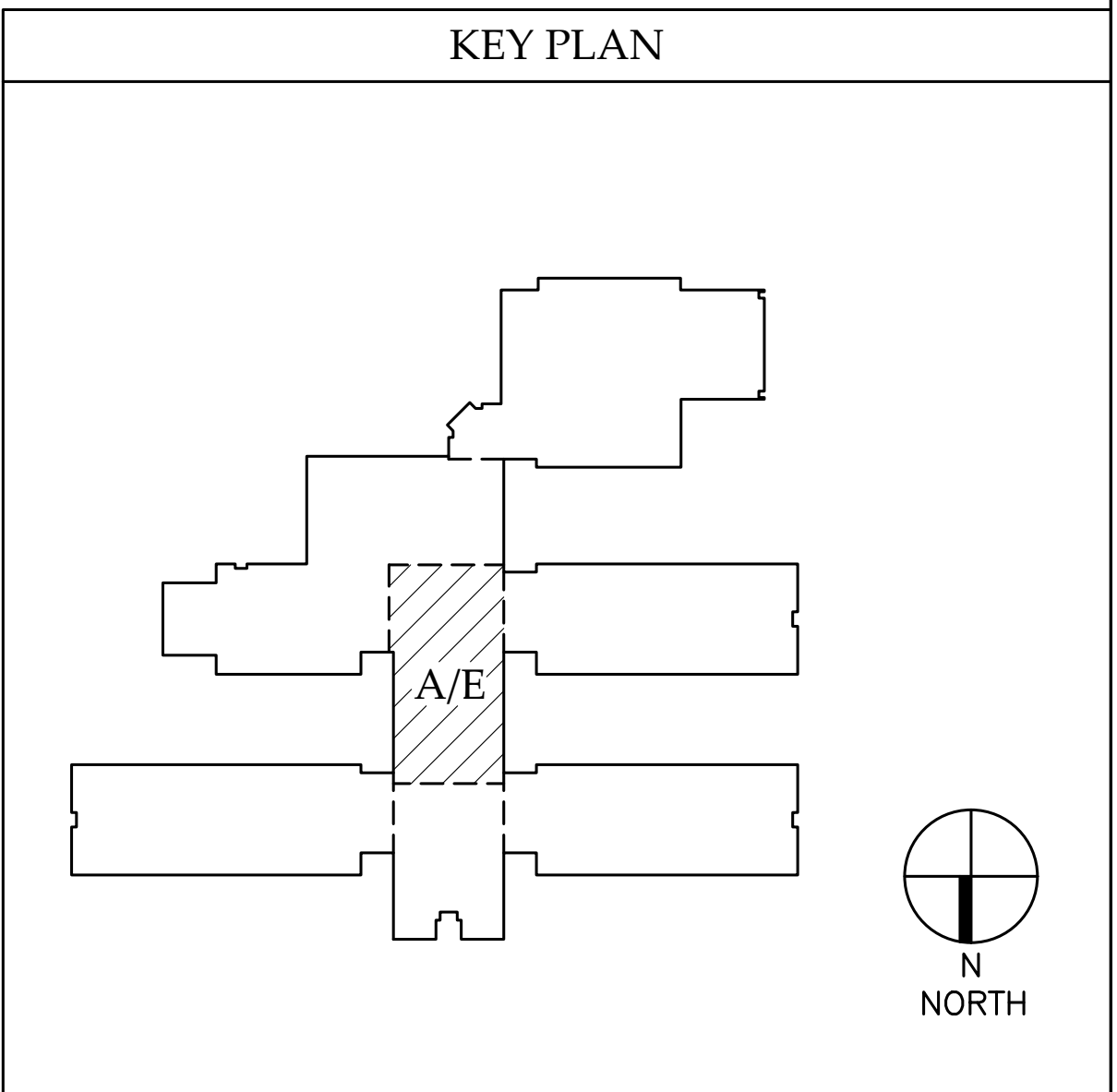
Sheet Number:

M105

Date: JANUARY 17, 2024
Scale: As Noted
BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS



1
M105
FLOOR PLAN - AREA A (CONT.) AND AREA E
- HVAC RENOVATION
SCALE: 1/8" = 1'-0"

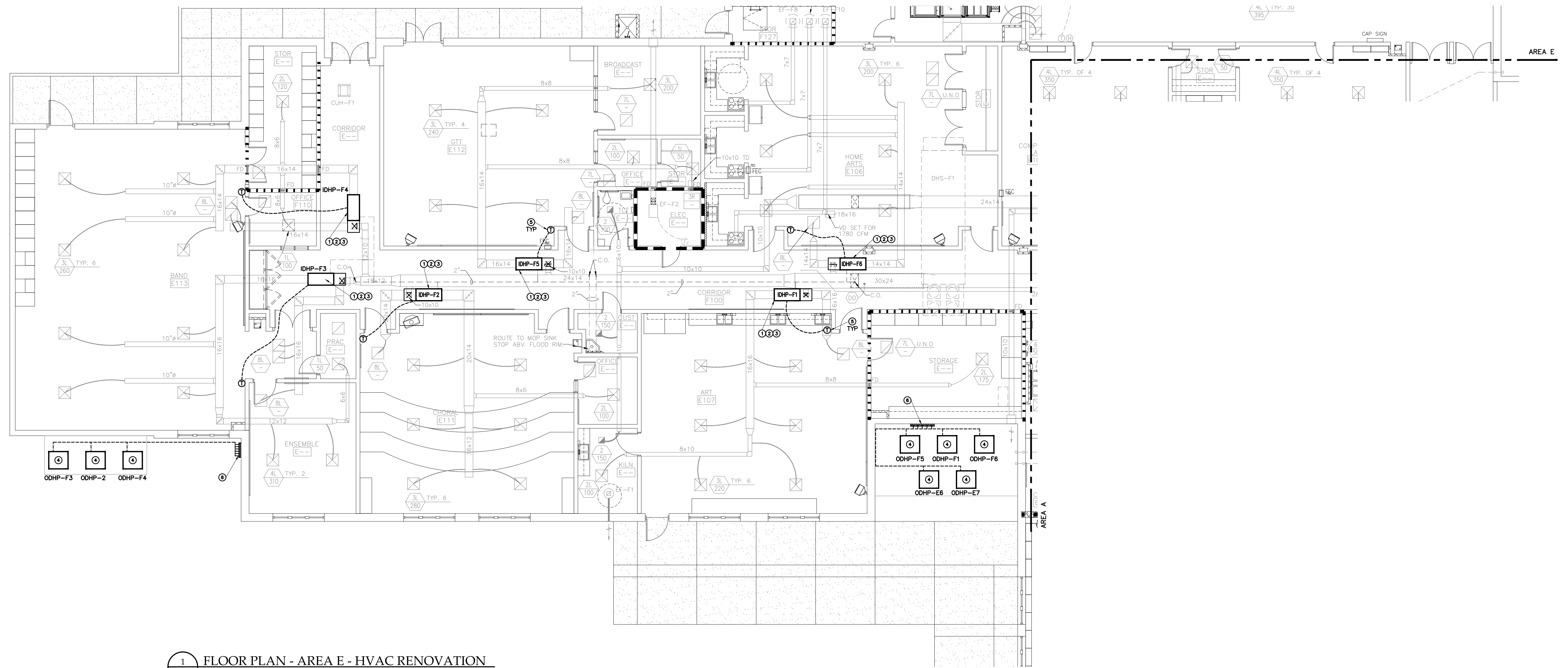
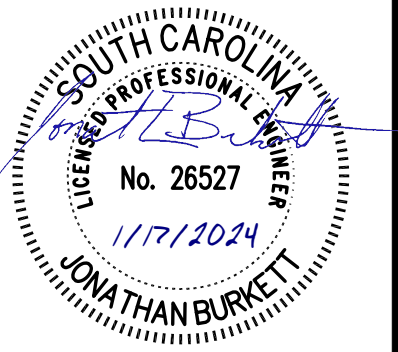
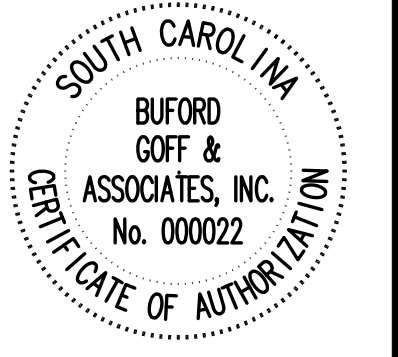


HVAC RENOVATION KEY NOTES

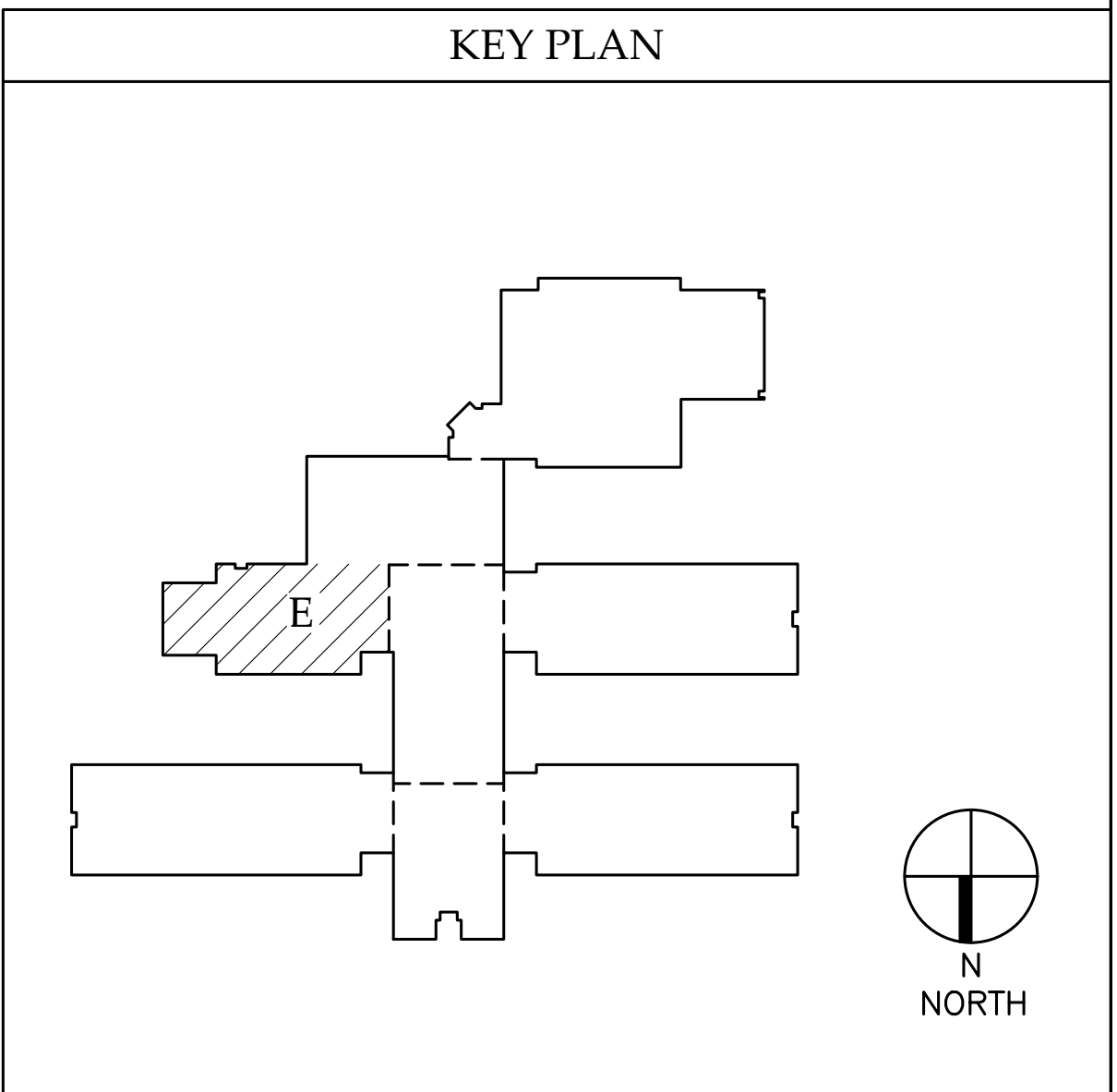
1. INSTALL NEW UNITS IN SAME APPROXIMATE LOCATION AS EXISTING UNIT.
2. PROVIDE DEEP SEAL P-TRAP AND ROUTE CONDENSATE TO EXISTING DRAIN LINE. VERIFY THAT EXISTING DRAIN LINE IS PROPERLY DRAINING. REUSE EXISTING AUXILIARY DRAIN FAN.
3. RECONNECT OUTSIDE AIR AND RETURN DUCT TO NEW UNIT RETURN PLENUM. RECONNECT SUPPLY DUCT TO NEW UNIT. FIELD VERIFY EXISTING DUCT SIZES AND TRANSITION AS REQUIRED.
4. INSTALL NEW CONDENSING UNIT ON EXISTING EQUIPMENT PAD. SECURE UNIT TO PAD.
5. INSTALL NEW THERMOSTAT. PROVIDE NEW CONTROL WIRING AND CONTROLLERS. REUSE EXISTING CONTROLS CONDUIT DOWN IN WALL FOR NEW THERMOSTAT.
6. ROUTE NEW REFRIGERANT PIPING UP EXTERIOR WALL IN ENCLOSURE AND THROUGH EXISTING WALL (TO A POINT ABOVE THE ROOM'S CEILING) TO CORRESPONDING IDHP ABOVE CEILING.

Project Engineer:
JEB
Drawn By:
xxx
Revisions:
No. _____ Date _____
No. _____ Date _____
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FLOOR PLAN - AREA E - HVAC RENOVATION
SCALE: 1/8" = 1'-0"



FORT MILL SCHOOL DISTRICT
SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA E - HVAC RENOVATION

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M106
Date: JANUARY 17, 2024
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BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS

MECHANICAL SYMBOL LEGEND	
	SUPPLY OR OUTSIDE AIR GRILLE
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	DUCT TURNED TO
	DUCT TURNED AWAY
	DUCT CAPPED
	EQUIPMENT LOCATED ON ROOF
	INSIDE DUCT DIMENSION
	OPPOSED BLADE VOLUME DAMPER
	FIRE DAMPER (FUSIBLE LINK)
	120V POWER IN J-BOX
	MOTORIZED DAMPER
	CONCEALED REGULATOR
	POUNDS (OR NUMBER)
	FIRE ALARM CONTROL PANEL
	10" ROUND DUCT (INSIDE DIM)
	BACS-1 BUILDING AUTOMATION CONTROL SYSTEM NO. 1
	S SWITCH
	T THERMOSTAT/SENSOR
	H HUMIDISTAT/HUMIDITY SENSOR
	FLEX CONNECTION (DUCT)
	FILTER SECTION
	DUCT SMOKE DETECTORS
	CONTROL WIRING
	AD ACCESS DOOR
	CLEANOUT
	AIR DISTRIBUTION (OTHER SYMBOLS SIM.)
	LS LIGHT SWITCH
	CO ₂ CO ₂ SENSOR

MECHANICAL ABBREVIATIONS			
ABV	ABOVE	IN	INCHES
AFF	ABOVE FINISH FLOOR	MOD	MOTOR OPERATED DAMPER
AFMS-1	AIRFLOW MEASURING STATION NO.1	MPS	MEDIUM PRESSURE STEAM (16 PSI TO 30 PSI)
BACS	BUILDING AUTOMATION CONTROL SYSTEM	NO	NORMALLY OPEN
BHP	BRAKE HORSE POWER	NC	NORMALLY CLOSED
BOD	BOTTOM OF DUCT	OC	ON CENTER
BOP	BOTTOM OF PIPE	ODAC-1	OUTDOOR AIR CONDITIONING UNIT NO.1
CEF-1	CEILING EXHAUST FAN NO. 1	ODHP-1	OUTDOOR HEAT PUMP NO.1
CFM	CUBIC FEET PER MINUTE	ODP	OPEN DRIP PROOF
CLG	CEILING	PD	PRESSURE DROP
CO	CLEAN OUT	PFD	PIPE TO FLOOR DRAIN
D	DRAIN	PH	PHASE
EF-1	EXHAUST FAN NO.1	REF.	REFRIGERANT LINES
EFF	EFFICIENCY	SF	SQUARE FOOT
ELECT	ELECTRICAL	SP	STATIC PRESSURE SENSOR
ESP	EXTERNAL STATIC PRESSURE	SPAC-1	SINGLE PACKAGE AIR CONDITIONING UNIT NO.1
EUH-1	ELECTRIC UNIT HEATER NO.1	T-1	TERMINAL UNIT NO. 1
EW-1	ELECTRIC WALL HEATER NO.1	TA	THROW AWAY (FILTER)
EXT	EXTERNAL	TC	TIME CONTROL
FPS	FEET PER SECOND	TD	TRANSFER DUCT
FT	FEET	TEAO	TOTALLY ENCLOSED AIR OVER
FLR	FLOOR	TEFC	TOTALLY ENCLOSED FAN COOLED
HP	HORSE POWER	UNO	UNLESS NOTES OTHERWISE
IDAC-1	INDOOR AIR CONDITIONING UNIT NO.1	VFD	VARIABLE FREQUENCY DRIVE
IDHP-1	INDOOR HEAT PUMP NO.1	VEL	VELOCITY
		VOLT	VOLTAGE
		WMHP-1	WALL MOUNTED HEAT PUMP NO. 1
		ZPOS	TWO POSITION

SEISMIC AND WIND DESIGN CRITERIA	
SEISMIC DESIGN	
SEISMIC DESIGN CATEGORY (SDC): C	
RISK CATEGORY: III	
SPECTRAL RESPONSE COEFFICIENTS	
S _d : 0.233; S _{d1} : 0.137	
WIND DESIGN	
BASIC WIND SPEED: 119 MPH	
EXPOSURE CATEGORY: B	
RISK CATEGORY: III	

DUCT PRESSURE CLASSIFICATION			
DUCT	SYSTEM	PRESSURE	STATIC PRESSURE CLASS ("WG)
RETURN DUCT	ALL SYSTEM RETURNS	NEG	-2"
SUPPLY DUCT	ALL SYSTEM SUPPLY	POS	+2"

- | MECHANICAL GENERAL NOTES |
|---|
| <ol style="list-style-type: none"> DO NOT SCALE DRAWINGS. (SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS) FIELD VERIFY EXISTING CONDITIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC. EXTEND ALL DRAIN LINES TO NEAREST GUTTER ON ROOF OR AS INDICATED ON PLANS. CONDENSATE DRAINS SHALL BE TRAPPED. ROUTE TO MINIMIZE TRIPPING HAZARD. PROVIDE CLEANOUTS AT ALL CHANGES OF DIRECTION GREATER THAN 90 DEGREES. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, AND PARTITIONS EXCEPT WHERE PROHIBITED BY FIRE CODES. LOCATE ALL THERMOSTATS, HUMIDISTATS AND SWITCHES 48" (TO TOP OF DEVICE) ABOVE FINISH FLOOR. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. HANGERS SHALL BE ADJACENT TO ELBOWS AND AT EQUIPMENT TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT. SUPPORT DETAILS SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE. AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH OR MULTIPLE OUTLETS ON A BRANCH, SHALL HAVE VOLUME DAMPERS TO BALANCE AIR FLOWS. SPIN IN FITTINGS ARE PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK DUCTS WHERE FLEX DUCTS ARE INDICATED. IF FLEX DUCT CANNOT BE CONNECTED WITH A SPIN IN, A HARD DUCTED TAKEOFF MUST BE PROVIDED. 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THRU EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AND COUNTERFLASHED. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEATERS, AIR VOLUME CONTROLLERS, AIR HANDLING UNITS, FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES. PROVIDE INSULATED BLANK-OFF PANEL FOR ALL UNUSED PORTION OF LOUVER (WHICH HAVE MECHANICAL DUCT CONNECTIONS). ALL TRANSFER DUCTS SHALL BE LINED WITH ONE INCH ACOUSTICAL LINER. ALL DUCTS SERVING THE THEATRE, STAGE, 2ND STAGE AND LOBBY SHALL BE LINED WITH 2 INCH ACOUSTICAL LINER. ALL DUCT IS GALVANIZED SHEETMETAL EXCEPT AS NOTED. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF FIFTEEN FEET AWAY FROM ANY EXHAUST OR VENT. AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE. ALL EQUIPMENT SHALL MEET THE PROJECT'S SEISMIC DESIGN AND WIND LOAD REQUIREMENTS. |

- | GENERAL HVAC DEMOLITION NOTES |
|--|
| <ol style="list-style-type: none"> DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING. DEMOLITION OF EQUIPMENT, SYSTEMS, AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED. ALL WALL, ROOFS, SLABS, STRUCTURES AND FINISHES WHOSE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES AND APPURTENANCES SHALL BE PATCHED. ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM 45 DEGREE. REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (I: PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE. |

Project Engineer: JEB
 Drawn By: xxx
 Revisions:
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
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 No. _____ Date _____

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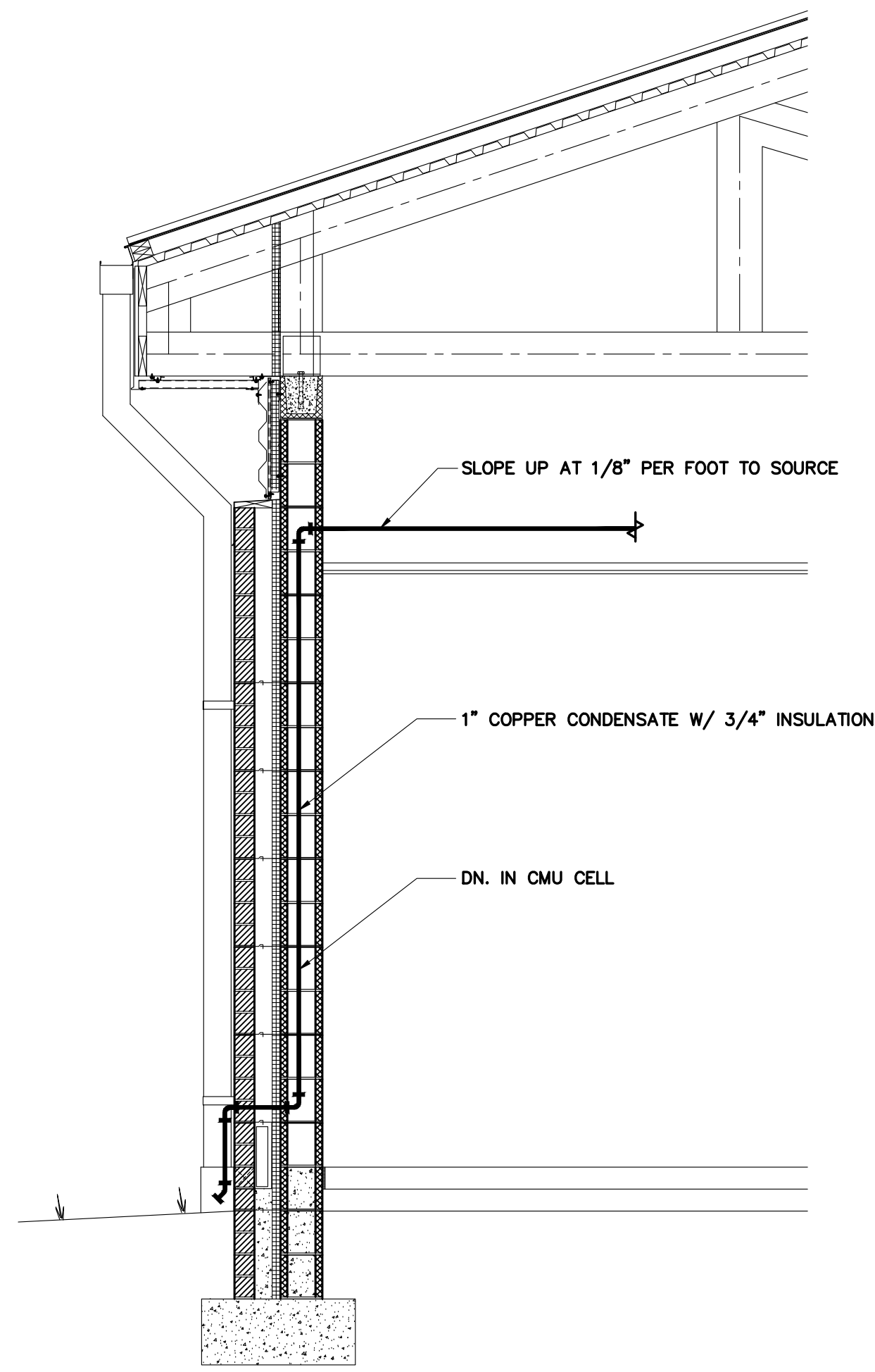
FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 HVAC NOTES AND SCHEDULES

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 1331 Elmwood Ave.
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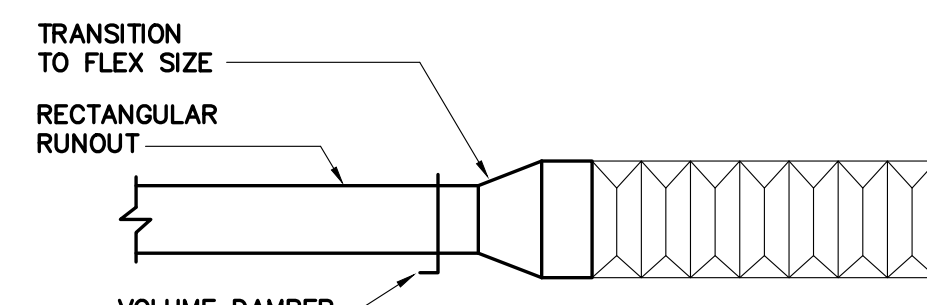
Sheet Number:
M300
 Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

SPLIT SYSTEM HEAT PUMP SCHEDULE

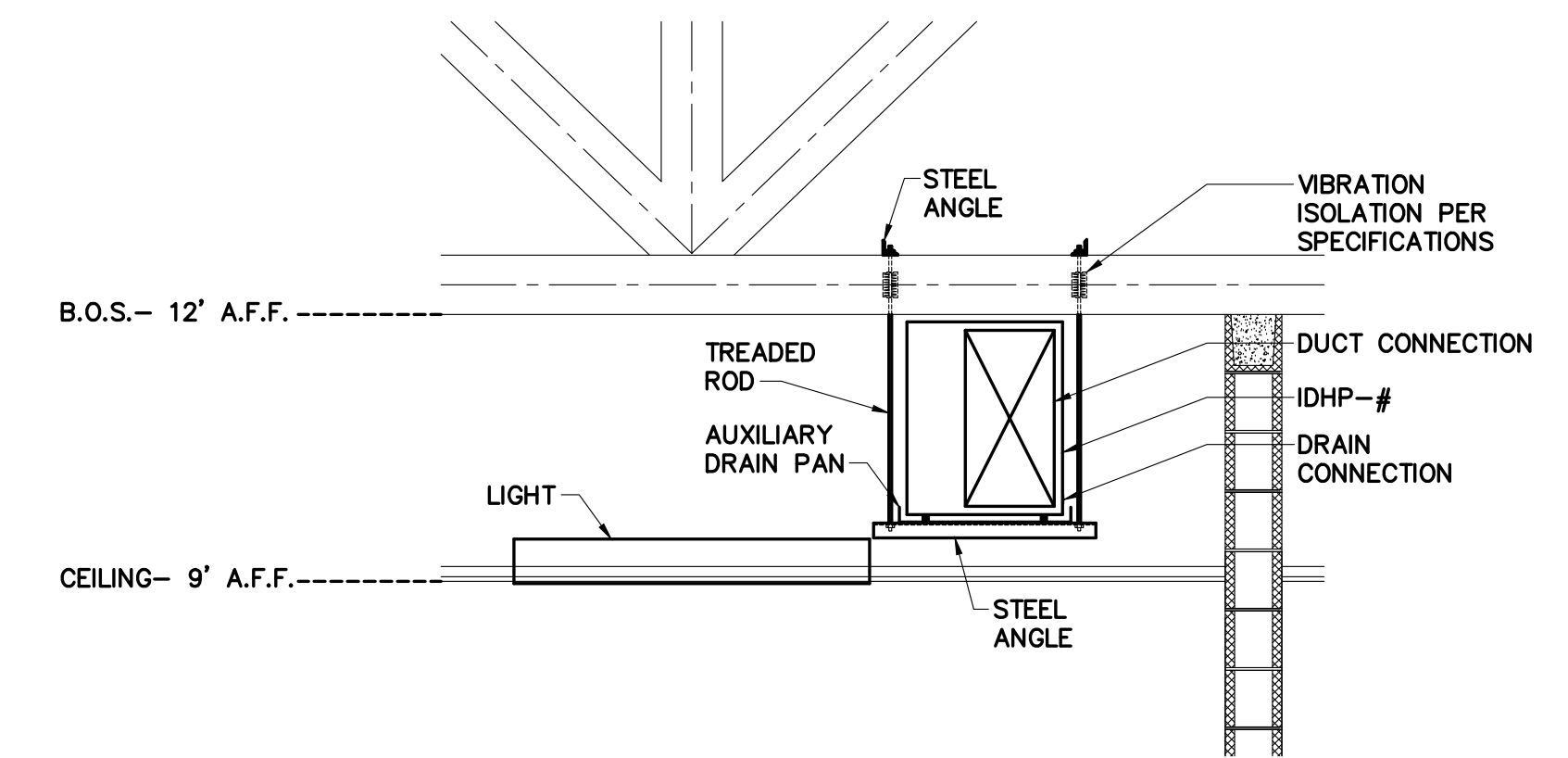
INDOOR HP #	INDOOR UNIT (AIR HANDLER)						OUTDOOR UNIT (CONDENSER)										SYSTEM										REMARKS							
	CFM		EXT SP(a)	ELECTRIC HEAT		MAX. WEIGHT #	HP	ELECT		MANUFACTURER AND MODEL	OUTDOOR HP #	OUTDOOR DB T	FANS			COMPRESSOR			ELECT		MAX. WEIGHT #	MANUFACTURER AND MODEL	COOLING COIL CAPACITY						HEATING COIL CAPACITY					
	TOT	OA		KW	VOLT/PH			MCA	VOLT/PH				HP	NO	NO	RLA	MCA	VOLT/PH	TOT	SENS			OUTDOOR DB T	ENT DB	AIR WB	LVG DB		AIR WB	EER	ENT T	17 F MBH	COP	47 F MBH	COP
IDHP-A1	775	100	0.6	4.8	480/3	150	1/3	9.0	480/3	TRANE TEM6A0B24	ODHP-A1	95	1/8	1	1	11.7	15	208/1	300	TRANE 4TWR6024	23.6	17.7	95	76	64	54.7	53.4	12.5	65	15.0	2.5	24.0	3.8	(3)(4)(6)
IDHP-A2	775	100	0.6	4.8	480/3	150	1/3	9.0	480/3	TRANE TEM6A0B24	ODHP-A2	95	1/8	1	1	11.7	15	208/1	300	TRANE 4TWR6024	23.6	17.7	95	76	64	54.7	53.4	12.5	65	15.0	2.5	24.0	3.8	(3)(4)(6)
IDHP-A3	1200	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A3	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	35.6	28.0	95	76	64	54.2	53.7	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A4	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A4	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A5	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A5	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A6	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A6	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A7	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A7	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A8	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A8	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A9	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A9	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A10	1200	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-A10	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-A11	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-A11	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-A12	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-A12	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-A13	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-A13	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-A14	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-A14	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-A15	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-A15	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-B1	775	100	0.6	4.8	480/3	150	1/3	9.0	480/3	TRANE TEM6A0B24	ODHP-B1	95	1/8	1	1	11.7	15	208/1	300	TRANE 4TWR6024	23.6	17.7	95	76	64	54.7	53.4	12.5	65	15.0	2.5	24.0	3.8	(3)(4)(6)
IDHP-B2	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B2	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B3	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B3	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B4	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B4	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B5	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B5	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B6	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B6	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B7	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B7	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B8	1200	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B8	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	35.6	28.0	95	76	64	54.2	53.7	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B9	1600	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-B9	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	45.5	34.4	95	76	64	55.9	54.2	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-B10	1600	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-B10	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	45.5	34.4	95	76	64	55.9	54.2	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-B11	1600	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-B11	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	45.5	34.4	95	76	64	55.9	54.2	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-B12	1600	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-B12	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	45.5	34.4	95	76	64	55.9	54.2	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-B13	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B13	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-B14	1000	100	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-B14	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	34.9	26.1	95	76	64	52.8	52.3	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-C1	775	100	0.6	4.8	480/3	150	1/3	9.0	480/3	TRANE TEM6A0B24	ODHP-C1	95	1/8	1	1	11.7	15	208/1	300	TRANE 4TWR6024	23.6	17.7	95	76	64	54.7	53.4	12.5	65	15.0	2.5	24.0	3.8	(3)(4)(6)
IDHP-C2	1200	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-C2	95	1/8	1	1	5.7	8	480/3	300	TRANE 4TWA7036	35.6	28.0	95	76	64	54.2	53.7	13.0	65	21.2	2.6	33.6	3.9	(3)(4)(6)
IDHP-C3	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-C3	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-C4	1400	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-C4	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	44.5	32.0	95	76	64	54.6	52.9	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-C5	1600	375	0.6	4.8	480/3	250	3/4	11.5	480/3	TRANE TEM6A0C48	ODHP-C5	95	1/5	1	1	6.4	9	480/3	350	TRANE 4TWA7048	45.5	34.4	95	76	64	55.9	54.2	13.0	65	30.8	2.8	46.5	4.2	(3)(4)(6)
IDHP-C6	1000	375	0.6	4.8	480/3	200	1/2	9.9	480/3	TRANE TEM6A0C36	ODHP-C6	95	1/8	1	1	5.7																		



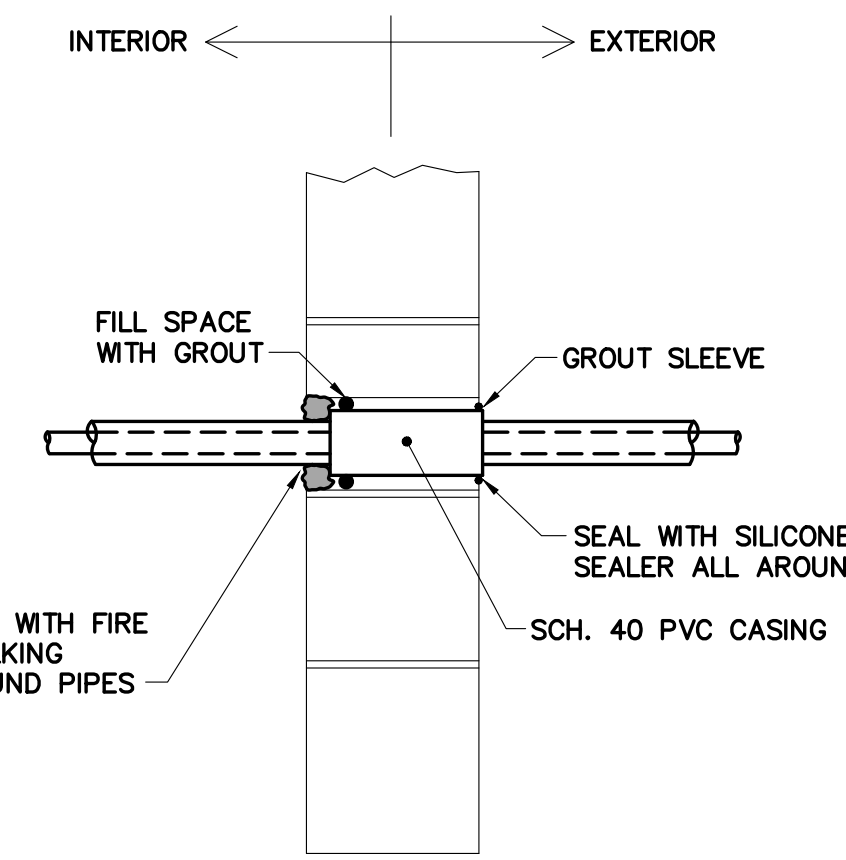
EXISTING CONDENSATE ROUTING IN WALL DETAIL (FOR REFERENCE)
3057 NOT TO SCALE



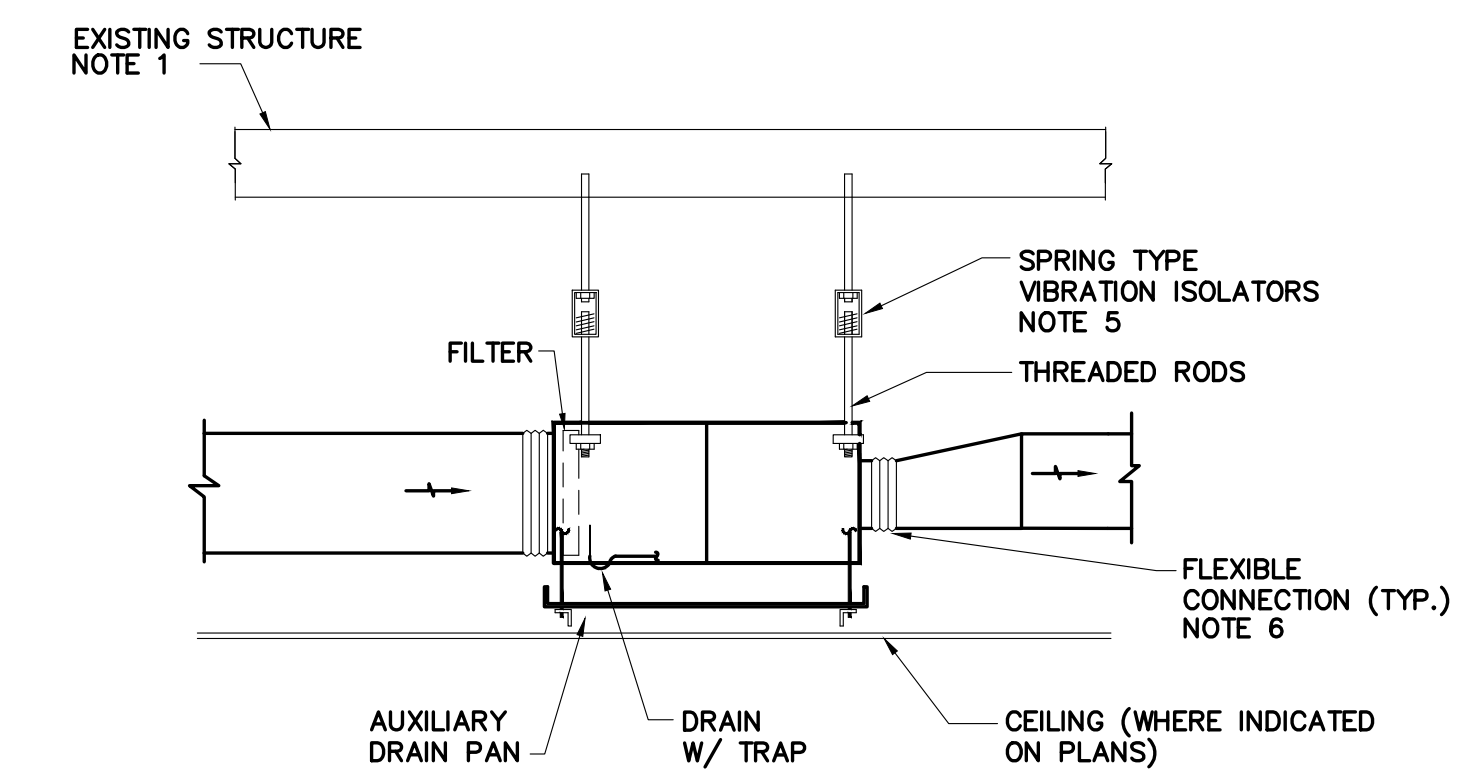
DUCT TRANSITION TO RUNOUT FLEX
3057 NOT TO SCALE



TYPICAL IDHP INSTALLATION IN CLASSROOM CORRIDOR
NTS



REFRIGERANT PIPE THRU WALL DETAIL
3177B NOT TO SCALE

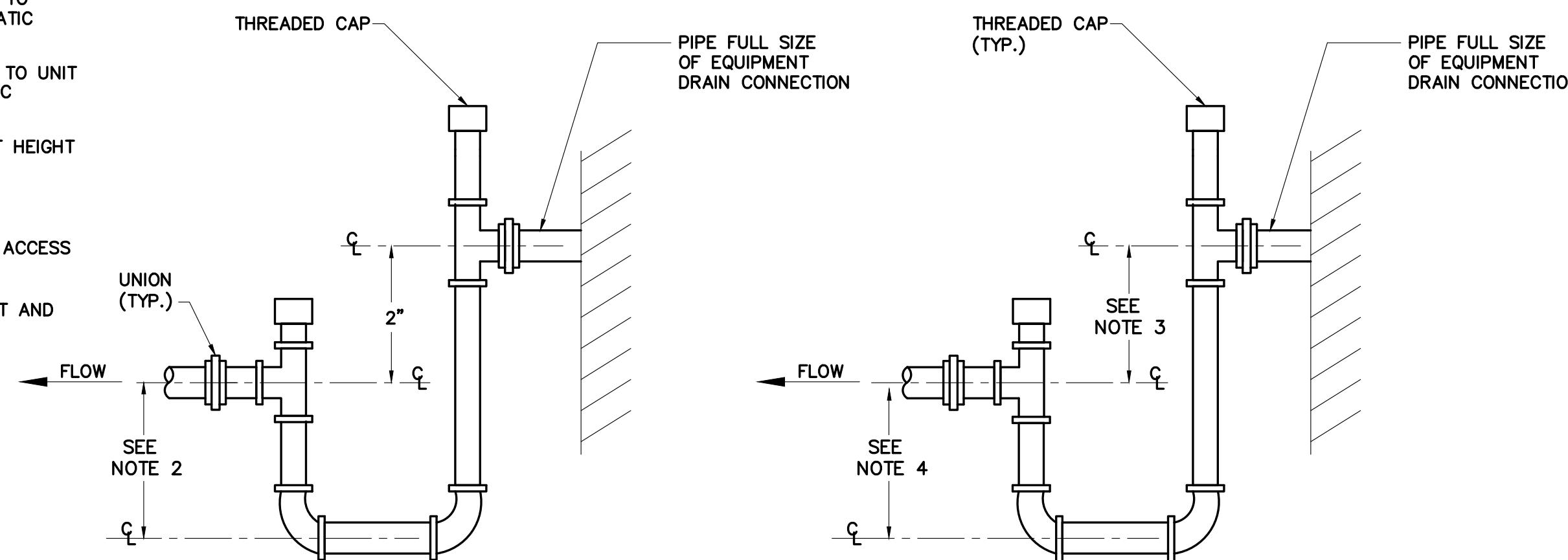


- NOTES:**
1. SUPPORT UNITS IN SIMILAR FASHION TO EXISTING UNITS. FIELD VERIFY EXISTING CONDITIONS.
 2. TRANSITION SUPPLY AND RETURN DUCT AS REQUIRED FOR CONNECTION TO AIR HANDLER.
 3. PROVIDE MANUFACTURERS RECOMMENDED CLEARANCE FOR MAINTENANCE OR CLEARANCE INDICATED ON PLANS, WHICHEVER IS GREATER.
 4. MOUNT UNIT TO MAINTAIN SLOPE ON DRAIN LINE.
 5. SPRING ISOLATORS REQUIRED WHERE SPECIFIED.
 6. FLEX CONNECTION FOR ALL UNITS WITH MOTORS.
 7. PROVIDE A FACTORY INSTALLED FILTER HOUSING WITH SIDE OR BOTTOM ACCESS AS REQUIRED.
 8. REUSE EXISTING AUXILIARY DRAIN PAN UNDER UNITS.
 9. THREADED RODS FOR AUXILIARY DRAIN PAN CAN BE THE SAME AS THE UNIT SUPPORT RODS IF THEY CAN BE PROPERLY INSTALLED (I.E. WITHOUT BENDING, INTERFERING WITH UNIT ACCESS, ETC.), OTHERWISE THEY SHALL BE RUN SIMILAR TO UNIT SUPPORT RODS.

SUSPENDED INDOOR AIR HANDLING EQUIPMENT DETAIL
3016 NOT TO SCALE

NOTES:

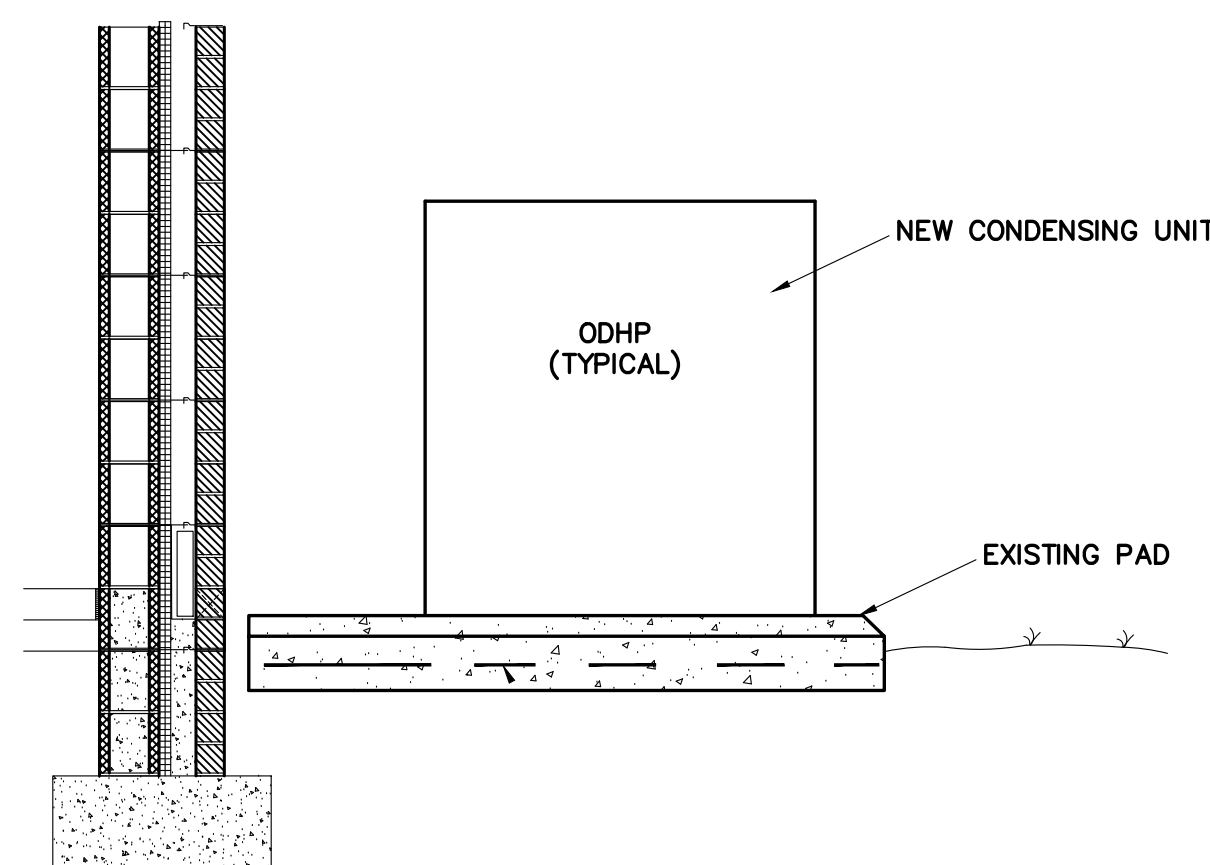
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM TOTAL STATIC PRESSURE PLUS 1/2"
3. HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM NEGATIVE STATIC PRESSURE PLUS 1"
4. HEIGHT SHALL BE 1/2 OF HEIGHT INSTALLED IN NOTE 3
5. PIPE TO NEAREST DRAIN.
6. TRAP SHALL NOT BLOCK ACCESS TO EQUIPMENT.
7. PROVIDE UNIONS AT INLET AND OUTLET OF TRAP.
8. DRAIN LINE SHALL BE 3/4" MIN OR UNIT CONNECTION SIZE, WHICHEVER IS LARGER.



BLOW THRU DRAIN

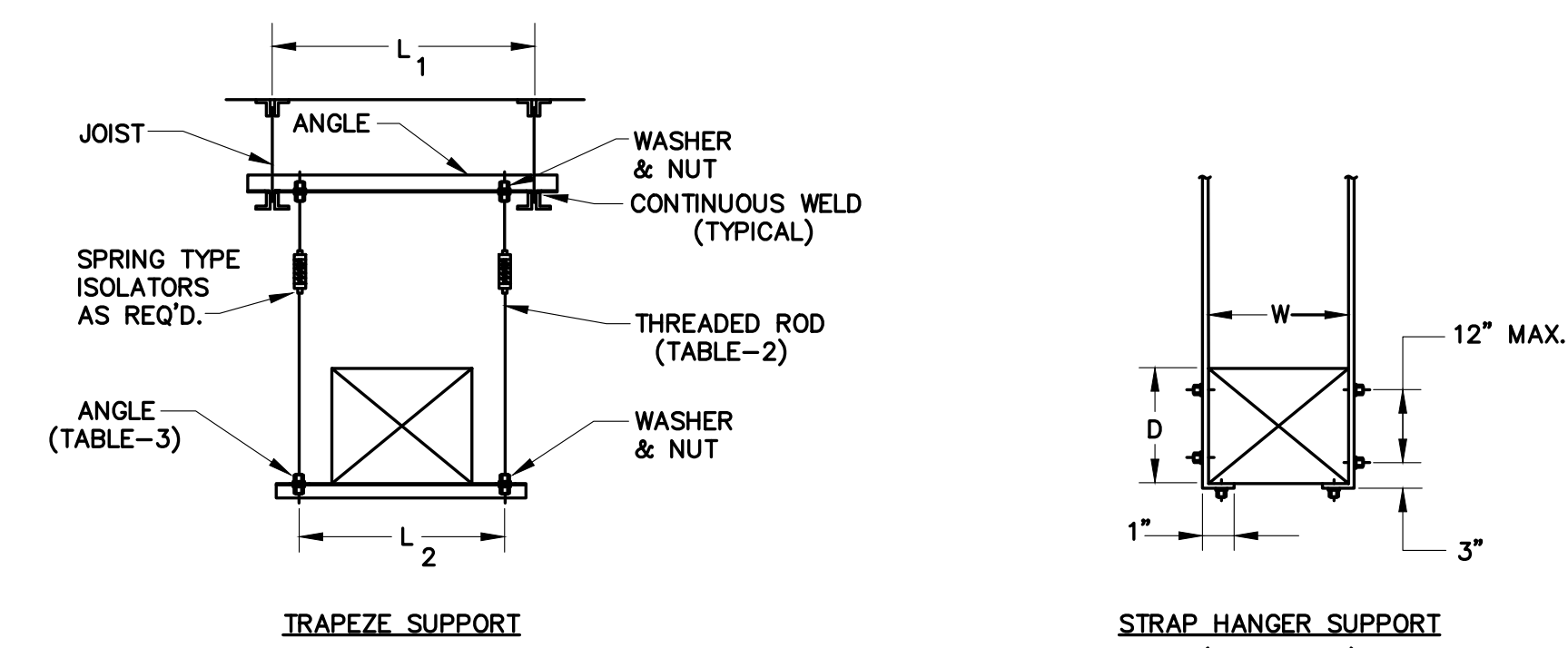
DRAW THRU DRAIN

EQUIPMENT CONDENSATE DRAIN DETAIL
3179B NOT TO SCALE



- NOTES:**
1. INSTALL ODHP ON EXISTING PAD. LOCATE UNIT IN SAME APPROXIMATE LOCATION. ATTACH UNIT TO PAD.

OUTDOOR EQUIPMENT HOUSEKEEPING PAD DETAIL
3401B NOT TO SCALE



TRAPEZE SUPPORT

STRAP HANGER SUPPORT (TABLE - 1)

TABLE-1 STRAP HANGERS (PAIR) SPACED			
W + D MAX.	10'-0" MAX.	8'-0" MAX.	5'-0" OR LESS
72"	1" x 22Gg.	1" x 22Gg.	1" x 22Gg.
96"	1" x 20Gg.	1" x 22Gg.	1" x 22Gg.
120"	1" x 18Gg.	1" x 22Gg.	1" x 22Gg.
168"	1" x 18Gg.	1" x 18Gg.	1" x 18Gg.
192"	1" x 18Gg.	1" x 18Gg.	1" x 18Gg.

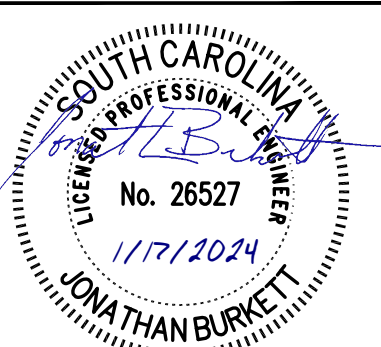
TABLE-2 ALLOWABLE HANGER LOADS - MAX.			
STRAPS	LBS.	RODS	LBS.
2 - 1"x22Gg.	520	2 - 1/4" DIA.	540
2 - 1"x20Gg.	640	2 - 3/8" DIA.	1360
2 - 1"x18Gg.	840	2 - 1/2" DIA.	2500
2 - 1"x16Gg.	1400	2 - 5/8" DIA.	4000
		2 - 3/4" DIA.	6000

TABLE-3 TRAPEZE ANGLE LOAD - MAX.			
L1 OR L2	2"x2"x1/4"	2-1/2"x2-1/2"x1/4"	
36"	1200 LBS.	1940 LBS.	
48"	1160 LBS.	1900 LBS.	
60"	1060 LBS.	1800 LBS.	
72"	900 LBS.	1640 LBS.	
84"	680 LBS.	1400 LBS.	
96"	320 LBS.	1060 LBS.	

DUCT SUPPORT DETAILS (NON-SEISMIC)
3053 NOT TO SCALE

Project Engineer: JEB
 Drawn By: xxx
 Revisions:
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date
 No. Date

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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 HVAC DETAILS

Buford Goff
 & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302

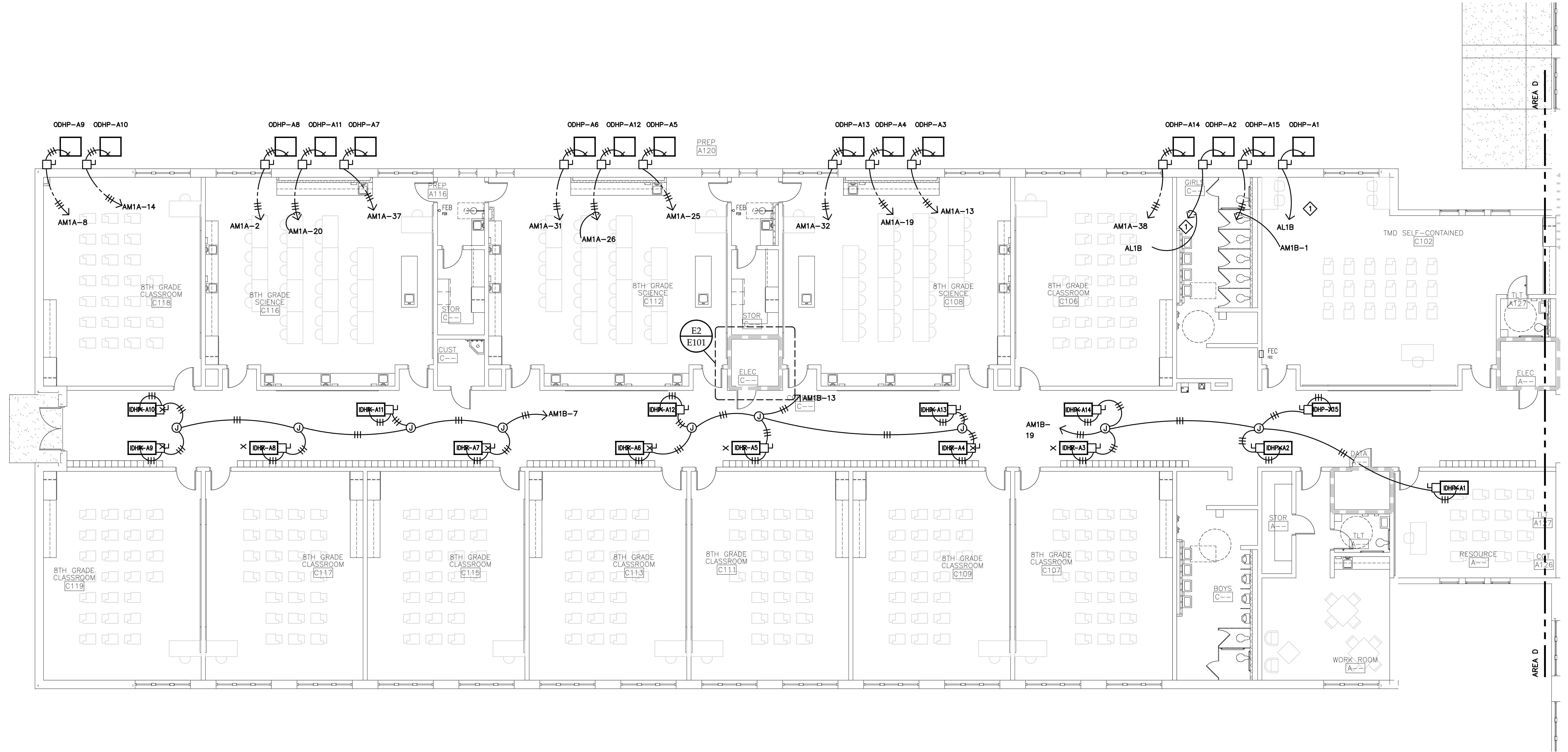
Sheet Number:
M400
 Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

KEYNOTES:
 ◆ PROVIDE NEW 208V, 1PH BRANCH CIRCUIT (2#12, #12GND), REUSING AS MUCH OF EXISTING INTERIOR 3/4" C. AS POSSIBLE. PROVIDE NEW EXTERIOR 3/4" C. AND PROVIDE NEW INTERIOR 3/4" C. AS REQUIRED TO TIE INTO THE DESIGNATED PANELBOARD. PROVIDE NEW 30A, 2P CB IN AVAILABLE SPACE IN PANELBOARD. LEAVE EXISTING 480V, 3P CB AS A SPARE IN FORMER PANELBOARD. UPDATE FORMER PANELBOARD AND NEW HOST PANELBOARD INDEXES WITH PERMANENT INK MARKER.

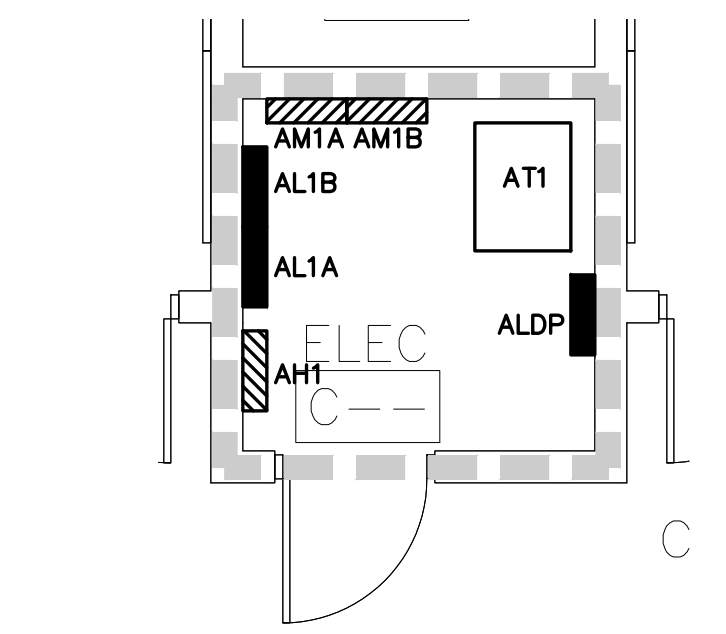
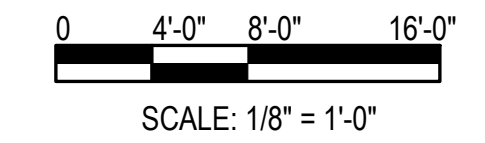
ELECTRICAL SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	ELECTRICAL PANELBOARD, 480/277V
	ELECTRICAL PANELBOARD, 120/208V
	DRY TYPE TRANSFORMER
	MOTOR LOAD
	DISCONNECT SWITCH
	JUNCTION BOX
	ABOVE FINISHED FLOOR
	CIRCUIT BREAKER
	CIRCUIT
	CONDUIT
	PHASE
	OUTDOOR HEAT PUMP
	INDOOR HEAT PUMP
	RAIN-TIGHT HOMERUN (NEMA 3R)
	CONDUIT - HOMERUN, TICK MARKS INDICATE NUMBER OF PHASE OR NEUTRAL CONDUCTORS
	CONDUIT RUN CONCEALED OVERHEAD OR EXPOSED
	KEYNOTE LABEL

- ELECTRICAL DEMOLITION NOTES**
- ELECTRICAL DEMOLITION SCOPE OF WORK FOR ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS (TYPICAL UNLESS OTHERWISE NOTED): DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING UNITS.
 - PROTECT AND PRESERVE EXISTING BRANCH CIRCUITS FOR RECONNECTION TO NEW REPLACEMENT HEAT PUMP UNITS.

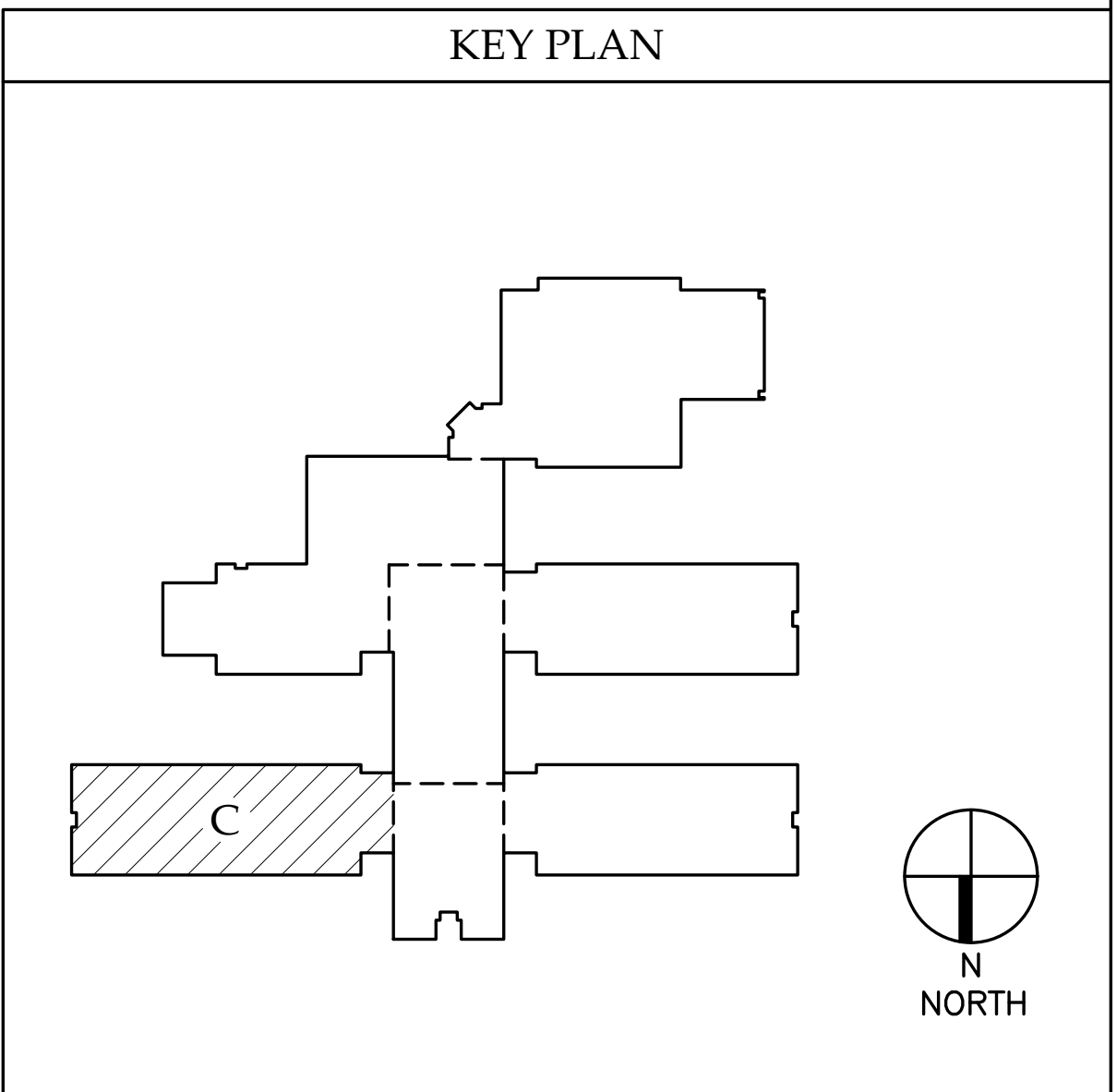
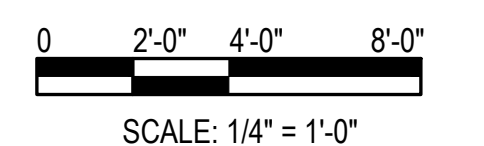
- ELECTRICAL RENOVATION NOTES**
- TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED: FIELD VERIFY AND REUSE/RECONNECT EXISTING BRANCH CIRCUIT HOMERUNS (CIRCUIT BREAKERS IN HOST PANELBOARDS TO REMAIN). PROVIDE NEW BRANCH CIRCUIT WIRING AND FLEX CONDUIT (SIZED TO MATCH EXISTING) AS REQUIRED TO EXTEND EXISTING BRANCH CIRCUITS TO NEW REPLACEMENT HVAC UNITS.
 - TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED ON PLANS: REUSE EXISTING DISCONNECT SWITCH. REPLACE FUSES WITH NEW DUAL ELEMENT-TIME DELAY FUSES SIZED PER NEW HVAC UNIT NAMEPLATE DATA.
 - TYPICAL - ALL OUTDOOR HEAT PUMP CONNECTIONS: PROVIDE NEW SURFACE MOUNTED IMC CONDUIT CONNECTION FROM DISCONNECT SWITCH TO NEW HEAT PUMP UNIT. PROVIDE SEALTIGHT FLEX CONNECTION FROM STUBUP TO HEAT PUMP TERMINAL BOX.
 - TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS: BRANCH CIRCUIT NUMBERS SHOWN ON FLOOR PLANS ARE FROM EXISTING DRAWINGS. FIELD VERIFY CIRCUIT NUMBERS AND UPDATE AS-BUILT DRAWINGS TO REFLECT FIELD-VERIFIED CIRCUIT NUMBERS.
 - UPDTE UNITS SHOWN IN DASHED LINETYPE ARE ROOF MOUNTED.
 - UPDATE EXISTING PANELBOARD SCHEDULES AS REQUIRED TO REFLECT NEW IDHP AND ODHP UNIT LABELING.



1 FLOOR PLAN - AREA C - ELECTRICAL RENOVATION
 SCALE: 1/8" = 1'-0"



2 ENLARGED FLOOR PLAN - AREA C - ELECTRICAL ROOM
 SCALE: 1/4" = 1'-0"



Project Engineer: ECW
 Drawn By: GMC
 Revisions:
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____

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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA C - ELECTRICAL RENOVATION

Project: _____
 Sheet Title: _____
Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302
 Sheet Number:
E101
 Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

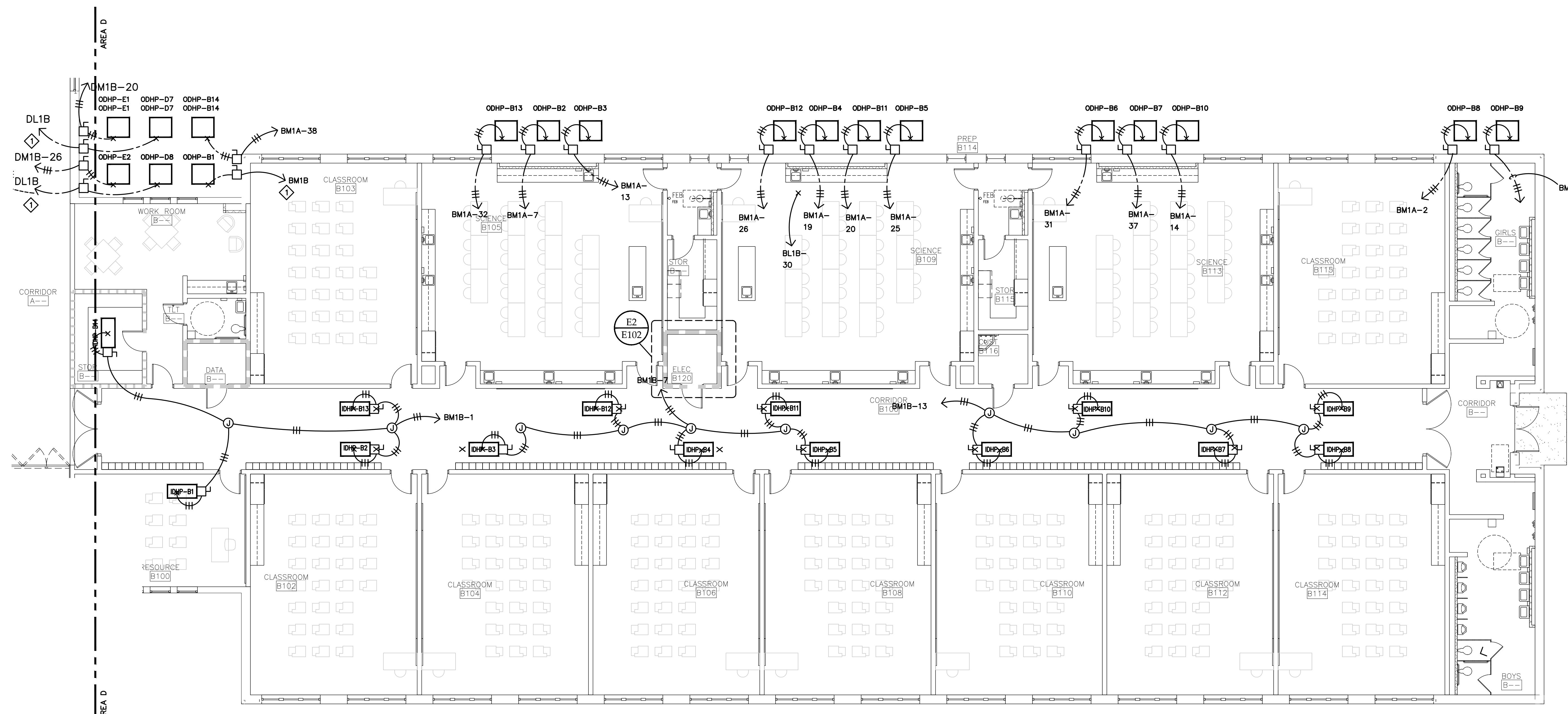
ELECTRICAL DEMOLITION NOTES

ELECTRICAL RENOVATION NOTES

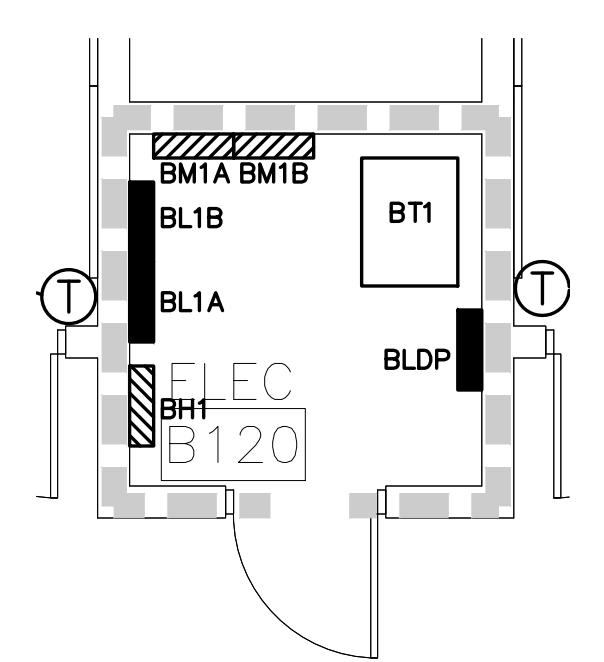
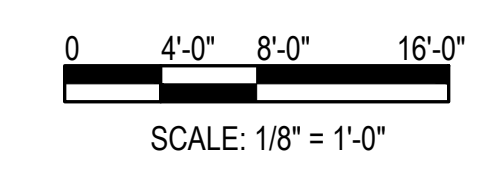
KEYNOTES:
 ◆ PROVIDE NEW 208V, 1PH BRANCH CIRCUIT (2#12, #12GND), REUSING AS MUCH OF EXISTING INTERIOR 3/4"C. AS POSSIBLE. PROVIDE NEW EXTERIOR 3/4"C. AND PROVIDE NEW INTERIOR 3/4"C. AS REQUIRED TO TIE INTO THE DESIGNATED PANELBOARD. PROVIDE NEW 30A, 2P CB IN AVAILABLE SPACE IN PANELBOARD. LEAVE EXISTING 480V, 3P CB AS A SPARE IN FORMER PANELBOARD. UPDATE FORMER PANELBOARD AND NEW HOST PANELBOARD INDEXES WITH PERMANENT INK MARKER.

1. ELECTRICAL DEMOLITION SCOPE OF WORK FOR ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS (TYPICAL UNLESS OTHERWISE NOTED); DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING UNITS.
2. PROTECT AND PRESERVE EXISTING BRANCH CIRCUITS FOR RECONNECTION TO NEW REPLACEMENT HEAT PUMP UNITS.

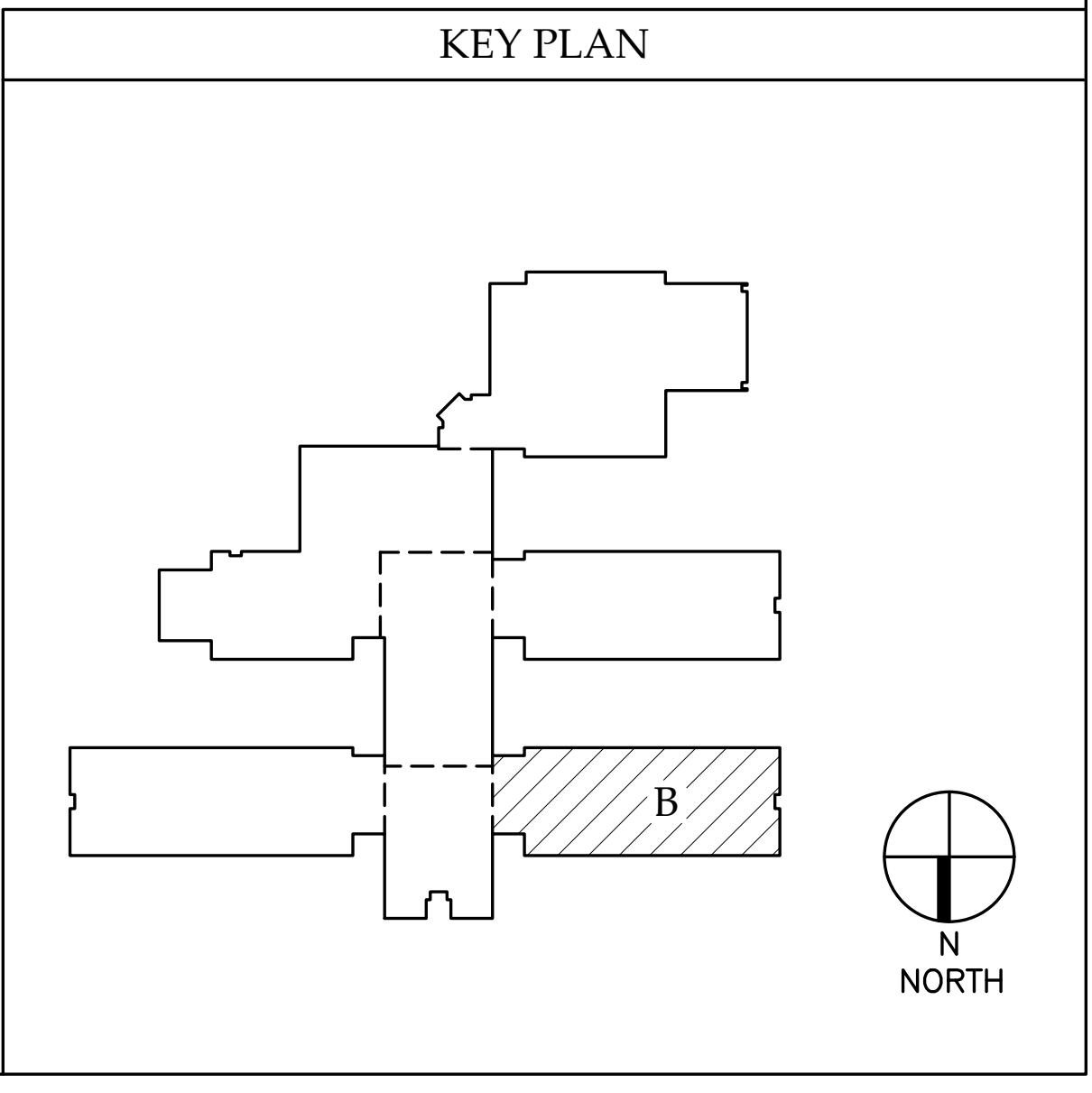
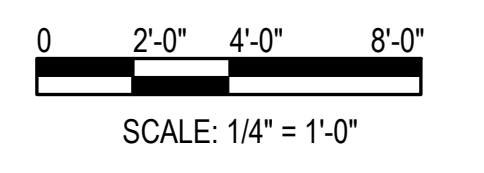
1. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED: FIELD VERIFY AND REUSE/RECONNECT EXISTING BRANCH CIRCUIT HOMERUNS (CIRCUIT BREAKERS IN HOST PANELBOARDS TO REMAIN). PROVIDE NEW BRANCH CIRCUIT WIRING AND FLEX CONDUIT (SIZED TO MATCH EXISTING) AS REQUIRED TO EXTEND EXISTING BRANCH CIRCUITS TO NEW REPLACEMENT HVAC UNITS.
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5. ODHP UNITS SHOWN IN DASHED LINETYPE ARE ROOF MOUNTED.
6. UPDATE EXISTING PANELBOARD SCHEDULES AS REQUIRED TO REFLECT NEW IDHP AND ODHP UNIT LABELING.



1 FLOOR PLAN - AREA B - ELECTRICAL RENOVATION
 SCALE: 1/8" = 1'-0"

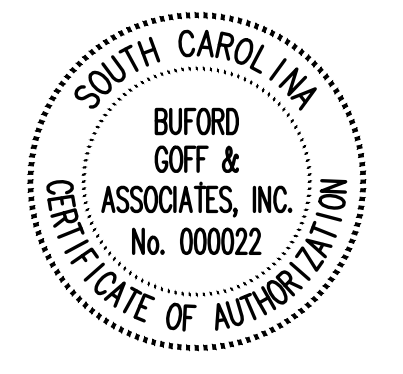


2 ENLARGED FLOOR PLAN - AREA B - ELECTRICAL ROOM
 SCALE: 1/4" = 1'-0"



Project Engineer:
ECW
 Drawn By:
GMC
 Revisions:
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____
 No. _____ Date _____

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FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 FLOOR PLAN - AREA B - ELECTRICAL RENOVATION

Project: _____
 Sheet Title: _____
Buford Goff & Associates, Inc.
 Engineers & Planners
 1331 Elmwood Ave.
 Suite 200
 Columbia, SC 29201
 Phone: (803) 254-6302
 Sheet Number:
E102
 Date: JANUARY 17, 2024
 Scale: As Noted
 DCA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

KEYNOTES:

◇ PROVIDE NEW 208V, 1PH BRANCH CIRCUIT (2#12, #12GND), REUSING AS MUCH OF EXISTING INTERIOR 3/4" C. AS POSSIBLE. PROVIDE NEW EXTERIOR 3/4" C. AND PROVIDE NEW INTERIOR 3/4" C. AS REQUIRED TO TIE INTO THE DESIGNATED PANELBOARD. PROVIDE NEW 30A, 2P CB IN AVAILABLE SPACE IN PANELBOARD. LEAVE EXISTING 480V, 3P CB AS A SPARE IN FORMER PANELBOARD. UPDATE FORMER PANELBOARD AND NEW HOST PANELBOARD INDEXES WITH PERMANENT INK MARKER.

ELECTRICAL DEMOLITION NOTES

1. ELECTRICAL DEMOLITION SCOPE OF WORK FOR ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS (TYPICAL UNLESS OTHERWISE NOTED): DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING UNITS.
2. PROTECT AND PRESERVE EXISTING BRANCH CIRCUITS FOR RECONNECTION TO NEW REPLACEMENT HEAT PUMP UNITS.

ELECTRICAL RENOVATION NOTES

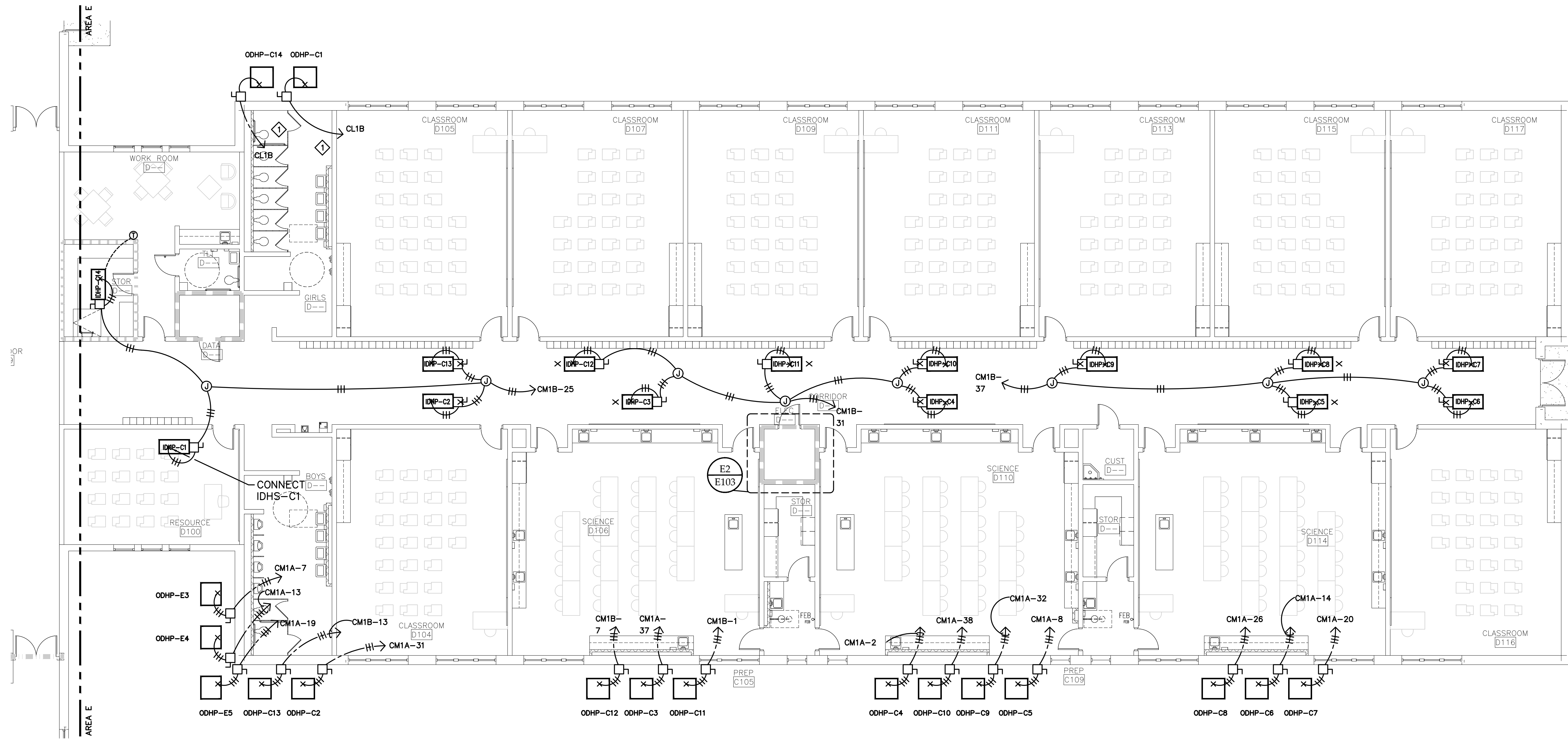
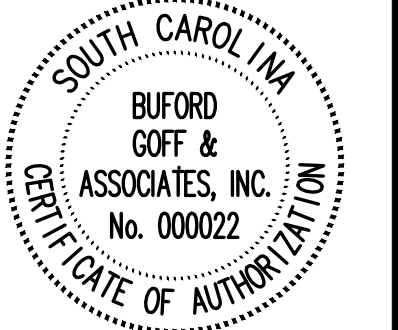
1. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED: FIELD VERIFY AND REUSE/RECONNECT EXISTING BRANCH CIRCUIT HOMERUNS (CIRCUIT BREAKERS IN HOST PANELBOARDS TO REMAIN). PROVIDE NEW BRANCH CIRCUIT WIRING AND FLEX CONDUIT (SIZED TO MATCH EXISTING) AS REQUIRED TO EXTEND EXISTING BRANCH CIRCUITS TO NEW REPLACEMENT HVAC UNITS.
2. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED ON PLANS: REUSE EXISTING DISCONNECT SWITCH. REPLACE FUSES WITH NEW DUAL ELEMENT-TIME DELAY FUSES SIZED PER NEW HVAC UNIT NAMEPLATE DATA.
3. TYPICAL - ALL OUTDOOR HEAT PUMP CONNECTIONS: PROVIDE NEW SURFACE MOUNTED IMC CONDUIT CONNECTION FROM DISCONNECT SWITCH TO NEW HEAT PUMP UNIT. PROVIDE SEALTIGHT FLEX CONNECTION FROM STUBUP TO HEAT PUMP TERMINAL BOX.
4. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS: BRANCH CIRCUIT NUMBERS SHOWN ON FLOOR PLANS ARE FROM EXISTING DRAWINGS. FIELD VERIFY CIRCUIT NUMBERS AND UPDATE AS-BUILT DRAWINGS TO REFLECT FIELD-VERIFIED CIRCUIT NUMBERS.
5. ODHP UNITS SHOWN IN DASHED LINETYPE ARE ROOF MOUNTED.
6. UPDATE EXISTING PANELBOARD SCHEDULES AS REQUIRED TO REFLECT NEW IDHP AND ODHP UNIT LABELING.

Project Engineer: ECW
 Drawn By: GMC

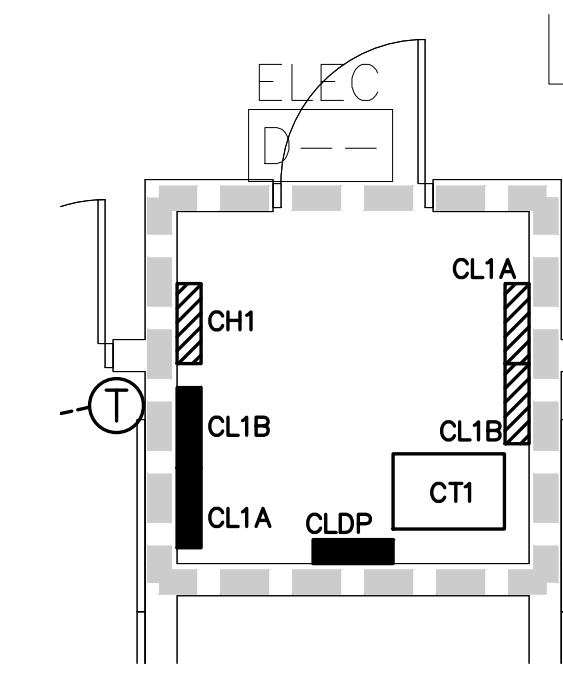
Revisions:

No.	Date
No.	Date
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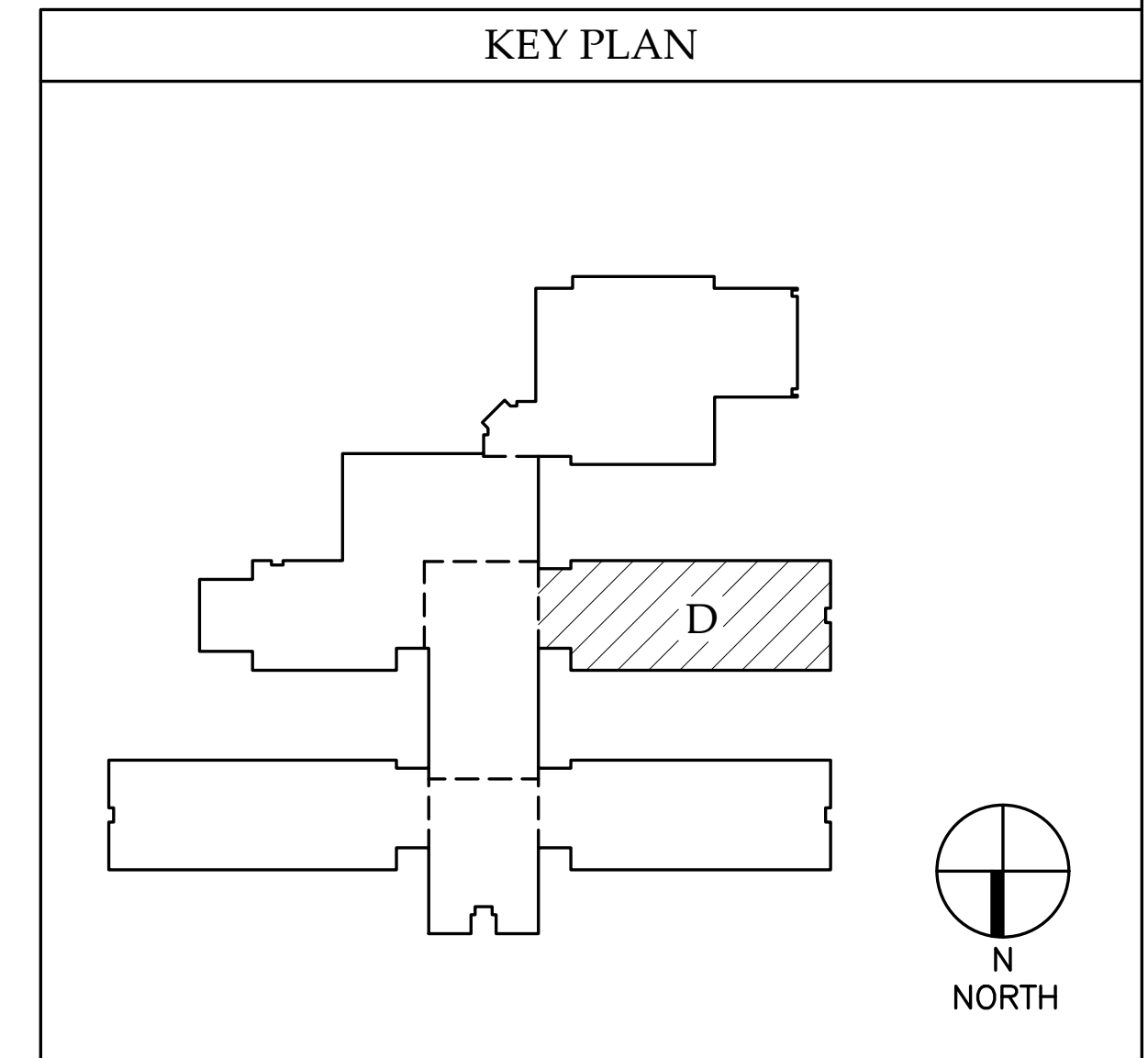
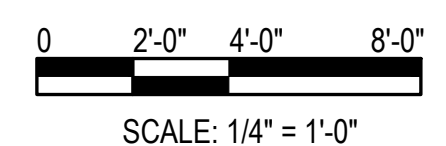
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1 FLOOR PLAN - AREA D - ELECTRICAL RENOVATION
 SCALE: 1/8" = 1'-0"



2 ENLARGED FLOOR PLAN - AREA D - ELECTRICAL ROOM
 SCALE: 1/4" = 1'-0"



Project: FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 Sheet Title: FLOOR PLAN - AREA D - ELECTRICAL RENOVATION

Buford Goff & Associates, Inc.
 Engineers & Planners

1331 Elmwood Ave.
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 Phone: (803) 254-6302

Sheet Number:
E103

Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

KEYNOTES:

◇ PROVIDE NEW 208V, 1PH BRANCH CIRCUIT (2#12, #12GND), REUSING AS MUCH OF EXISTING INTERIOR 3/4" C. AS POSSIBLE. PROVIDE NEW EXTERIOR 3/4" C. AND PROVIDE NEW INTERIOR 3/4" C. AS REQUIRED TO TIE INTO THE DESIGNATED PANELBOARD. PROVIDE NEW 30A, 2P CB IN AVAILABLE SPACE IN PANELBOARD. LEAVE EXISTING 480V, 3P CB AS A SPARE IN FORMER PANELBOARD. UPDATE FORMER PANELBOARD AND NEW HOST PANELBOARD INDEXES WITH PERMANENT INK MARKER.

ELECTRICAL DEMOLITION NOTES

1. ELECTRICAL DEMOLITION SCOPE OF WORK FOR ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS (TYPICAL UNLESS OTHERWISE NOTED): DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING UNITS.
2. PROTECT AND PRESERVE EXISTING BRANCH CIRCUITS FOR RECONNECTION TO NEW REPLACEMENT HEAT PUMP UNITS.

ELECTRICAL RENOVATION NOTES

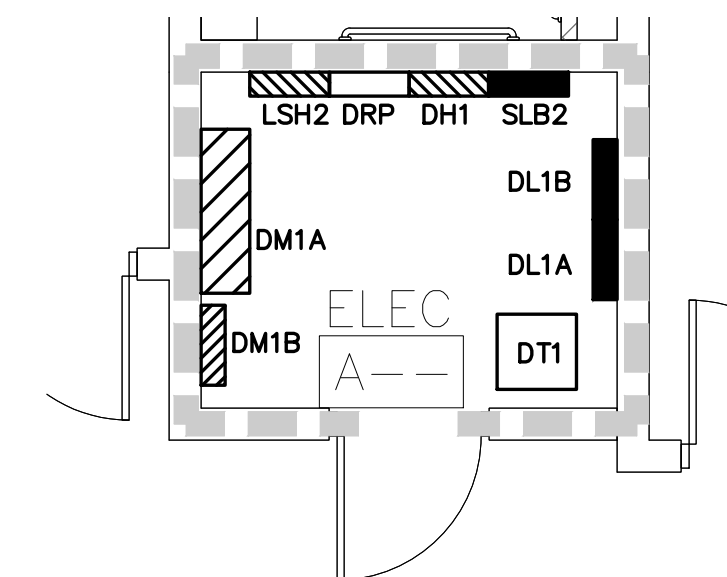
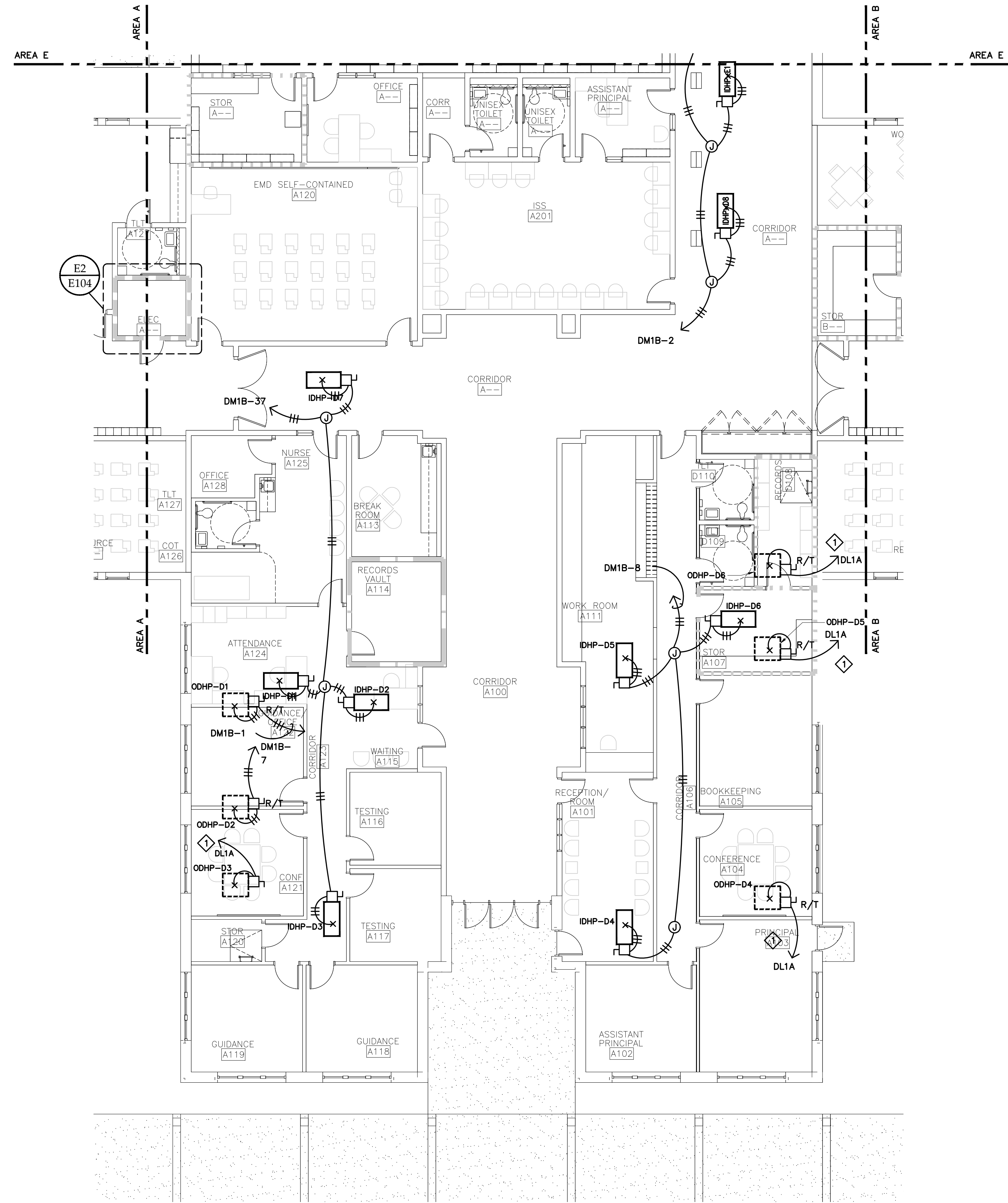
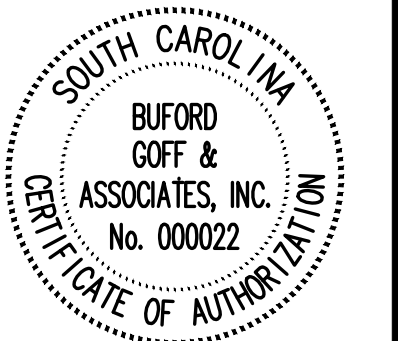
1. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED: FIELD VERIFY AND REUSE/RECONNECT EXISTING BRANCH CIRCUIT HOMERUNS (CIRCUIT BREAKERS IN HOST PANELBOARDS TO REMAIN). PROVIDE NEW BRANCH CIRCUIT WIRING AND FLEX CONDUIT (SIZED TO MATCH EXISTING) AS REQUIRED TO EXTEND EXISTING BRANCH CIRCUITS TO NEW REPLACEMENT HVAC UNITS.
2. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED ON PLANS: REUSE EXISTING DISCONNECT SWITCH. REPLACE FUSES WITH NEW DUAL ELEMENT-TIME DELAY FUSES SIZED PER NEW HVAC UNIT NAMEPLATE DATA.
3. TYPICAL - ALL OUTDOOR HEAT PUMP CONNECTIONS: PROVIDE NEW SURFACE MOUNTED IMC CONDUIT CONNECTION FROM DISCONNECT SWITCH TO NEW HEAT PUMP UNIT. PROVIDE SEALTIGHT FLEX CONNECTION FROM STUBUP TO HEAT PUMP TERMINAL BOX.
4. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS: BRANCH CIRCUIT NUMBERS SHOWN ON FLOOR PLANS ARE FROM EXISTING DRAWINGS. FIELD VERIFY CIRCUIT NUMBERS AND UPDATE AS-BUILT DRAWINGS TO REFLECT FIELD-VERIFIED CIRCUIT NUMBERS.
5. ODHP UNITS SHOWN IN DASHED LINETYPE ARE ROOF MOUNTED.
6. UPDATE EXISTING PANELBOARD SCHEDULES AS REQUIRED TO REFLECT NEW IDHP AND ODHP UNIT LABELING.

Project Engineer: ECW
 Drawn By: GMC

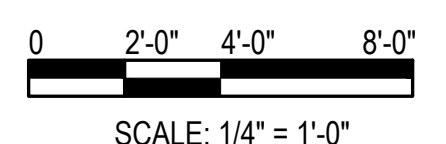
Revisions:

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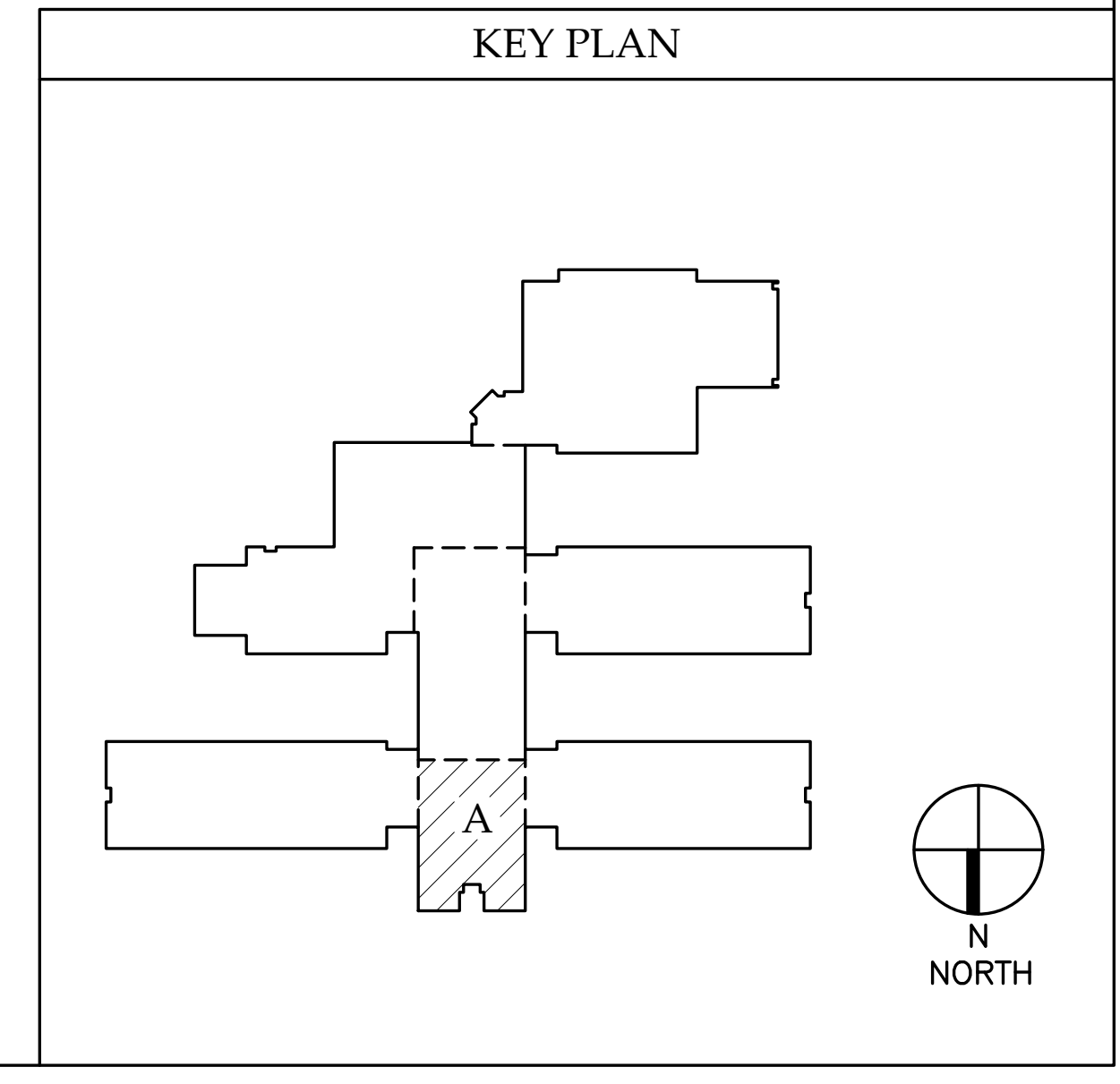
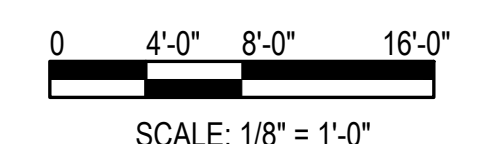
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2 ENLARGED FLOOR PLAN - AREA A - ELECTRICAL ROOM
 SCALE: 1/4" = 1'-0"



1 FLOOR PLAN - AREA A - ELECTRICAL RENOVATION
 SCALE: 1/8" = 1'-0"



Project: FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 Sheet Title: FLOOR PLAN - AREA A - ELECTRICAL RENOVATION

Buford Goff & Associates, Inc.
 Engineers & Planners

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 Phone: (803) 254-6302

Sheet Number:
E104

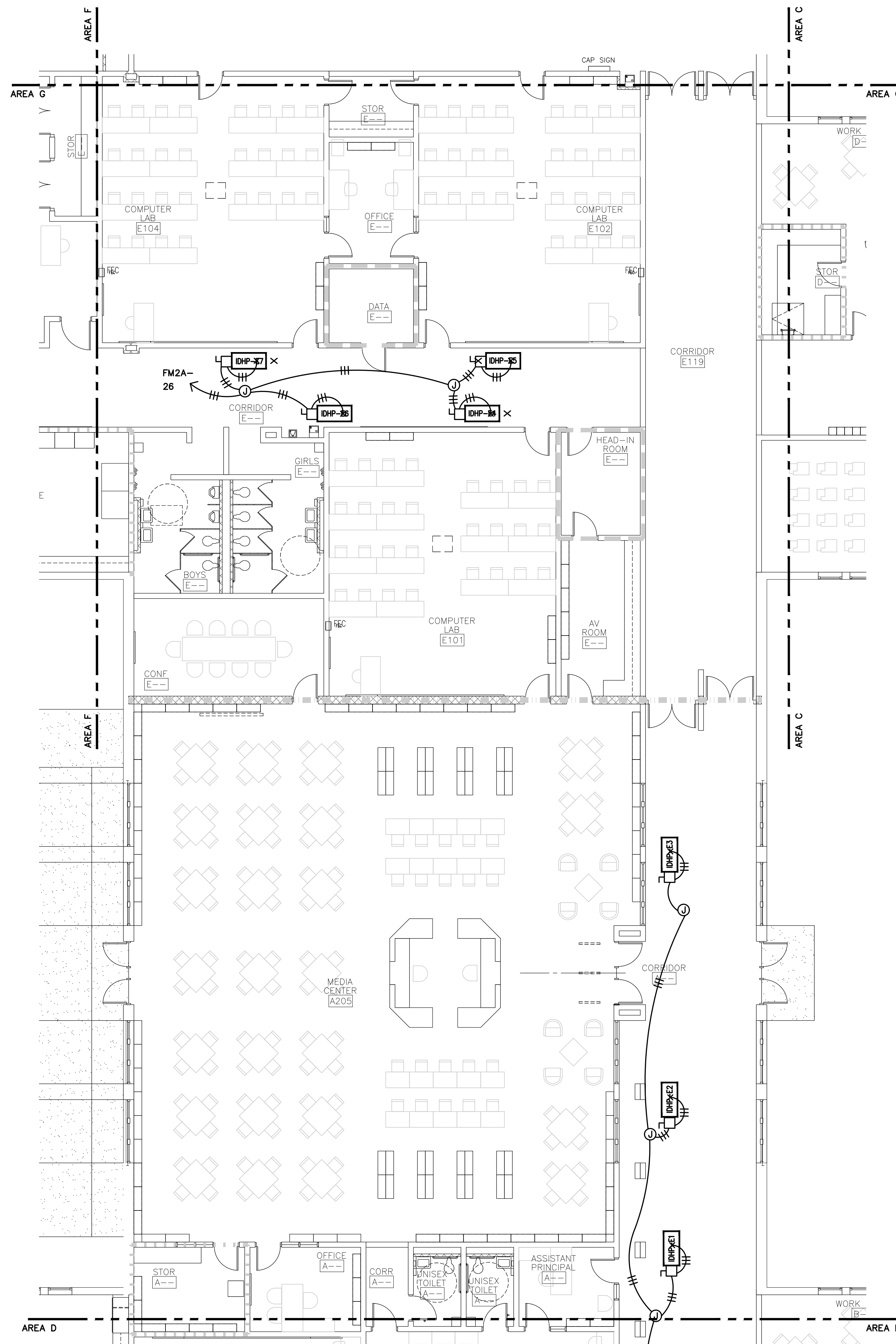
Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

ELECTRICAL DEMOLITION NOTES

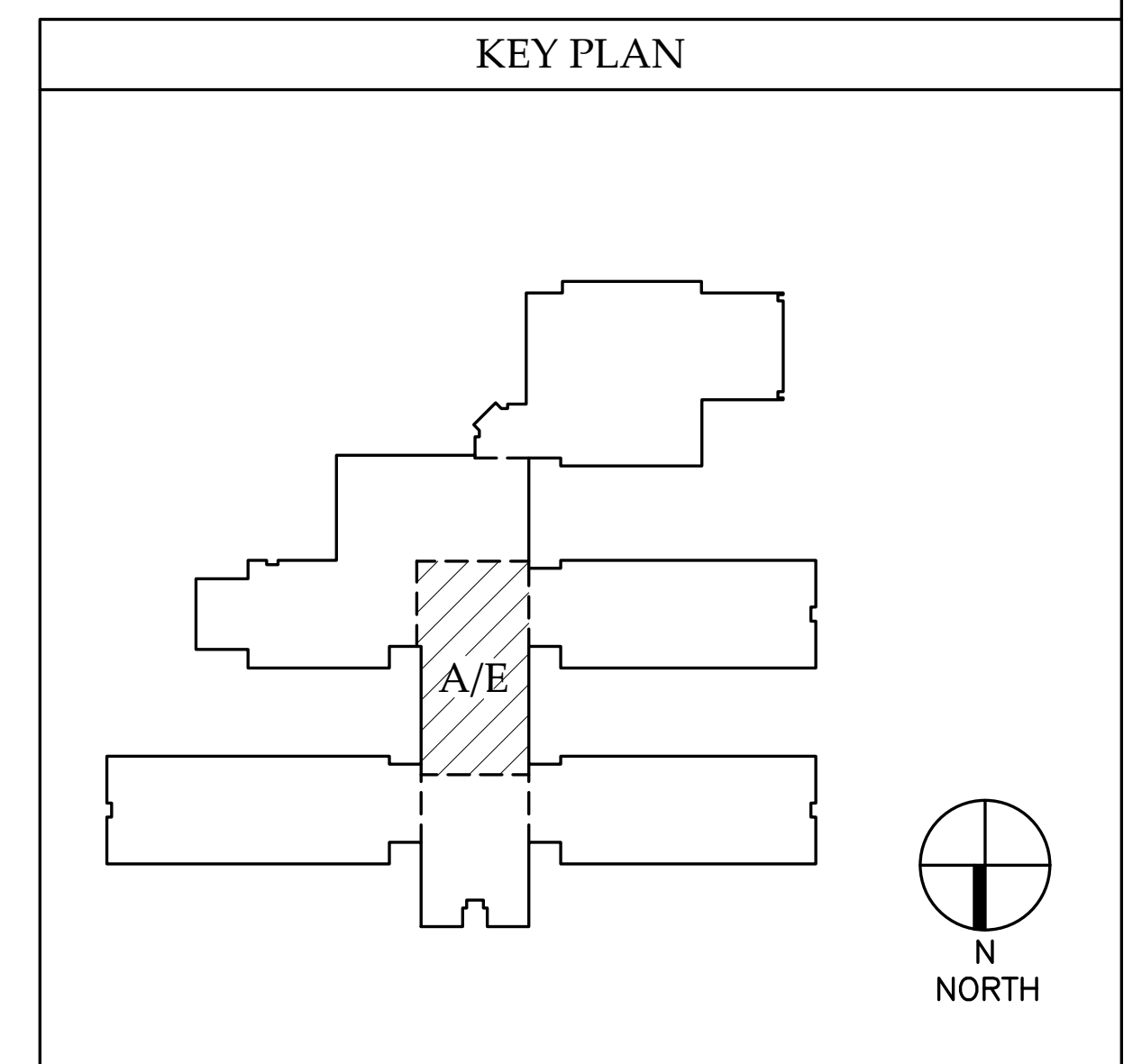
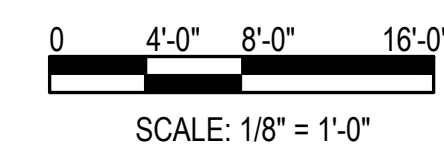
1. ELECTRICAL DEMOLITION SCOPE OF WORK FOR ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS (TYPICAL UNLESS OTHERWISE NOTED): DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING UNITS.
2. PROTECT AND PRESERVE EXISTING BRANCH CIRCUITS FOR RECONNECTION TO NEW REPLACEMENT HEAT PUMP UNITS.

ELECTRICAL RENOVATION NOTES

1. TYPICAL - ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS UNLESS OTHERWISE NOTED: FIELD VERIFY AND REUSE/RECONNECT EXISTING BRANCH CIRCUIT HOMERUNS (CIRCUIT BREAKERS IN HOST PANELBOARDS TO REMAIN). PROVIDE NEW BRANCH CIRCUIT WIRING AND FLEX CONDUIT (SIZED TO MATCH EXISTING) AS REQUIRED TO EXTEND EXISTING BRANCH CIRCUITS TO NEW REPLACEMENT HVAC UNITS.
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5. ODHP UNITS SHOWN IN DASHED LINETYPE ARE ROOF MOUNTED.
6. UPDATE EXISTING PANELBOARD SCHEDULES AS REQUIRED TO REFLECT NEW IDHP AND ODHP UNIT LABELING.



1 FLOOR PLAN - AREA A (CONT.) AND AREA E - ELECTRICAL RENOVATION
E105 SCALE: 1/8" = 1'-0"



Project Engineer: ECW

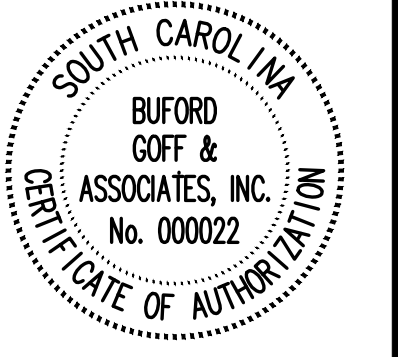
Drawn By: GMC

Revisions:

No.	Date	Description
No.	Date	
No.	Date	
No.	Date	
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Project: FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 Sheet Title: FLOOR PLAN - AREA A (CONT.) AND AREA E - ELECTRICAL RENOVATION

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 & Associates, Inc.
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Sheet Number:
E105

Date: JANUARY 17, 2024
 Scale: As Noted
 BGA PROJECT NUMBER: 21040
 CONSTRUCTION DOCUMENTS

KEYNOTES:

◇ PROVIDE NEW 208V, 1PH BRANCH CIRCUIT (2#12, #12GND), REUSING AS MUCH OF EXISTING INTERIOR 3/4"C. AS POSSIBLE. PROVIDE NEW EXTERIOR 3/4"C. AND PROVIDE NEW INTERIOR 3/4"C. AS REQUIRED TO TIE INTO THE DESIGNATED PANELBOARD. PROVIDE NEW 30A, 2P CB IN AVAILABLE SPACE IN PANELBOARD. LEAVE EXISTING 480V, 3P CB AS A SPARE IN FORMER PANELBOARD. UPDATE FORMER PANELBOARD AND NEW HOST PANELBOARD INDEXES WITH PERMANENT INK MARKER.

ELECTRICAL DEMOLITION NOTES

1. ELECTRICAL DEMOLITION SCOPE OF WORK FOR ALL OUTDOOR HEAT PUMP AND INDOOR HEAT PUMP UNITS (TYPICAL UNLESS OTHERWISE NOTED); DISCONNECT EXISTING BRANCH CIRCUITS FROM EXISTING UNITS.
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ELECTRICAL RENOVATION NOTES

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Project Engineer:
ECW

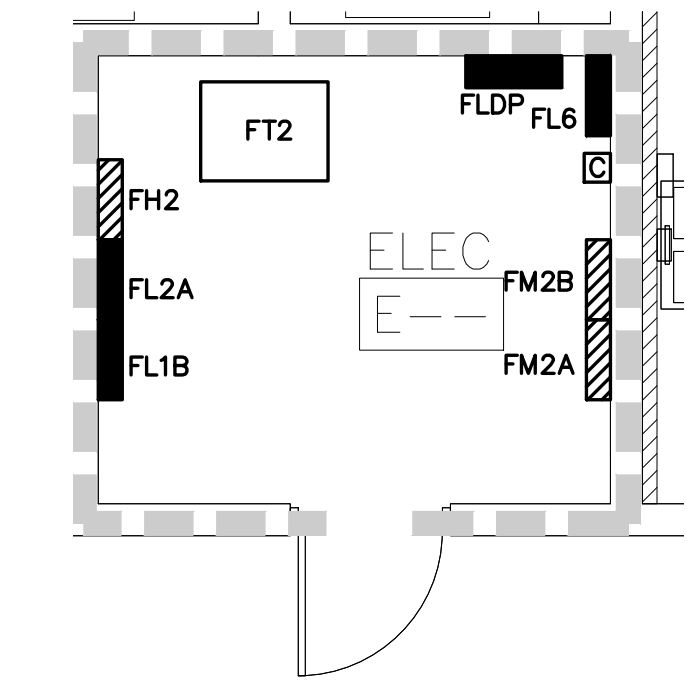
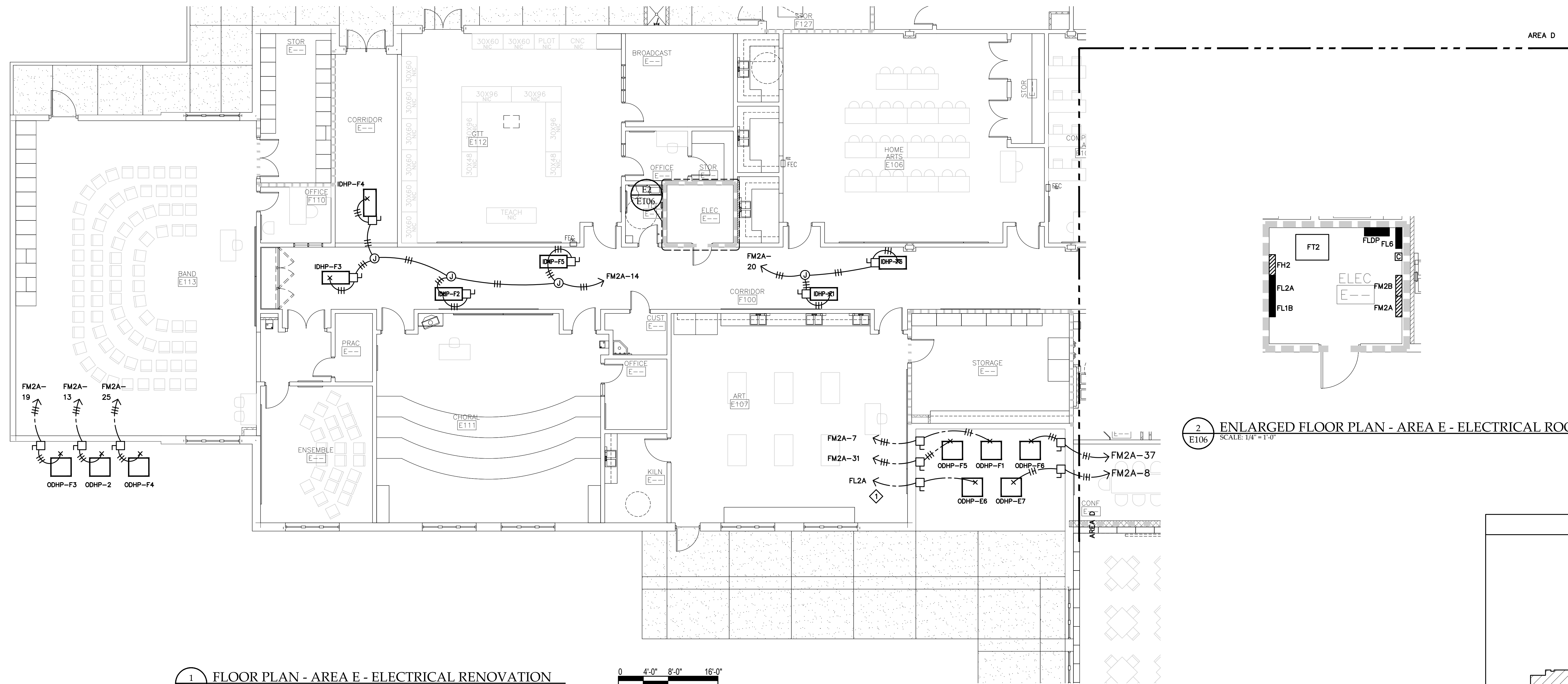
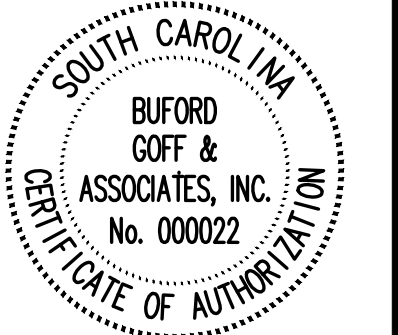
Drawn By:
GMC

Revisions:

No.	Date
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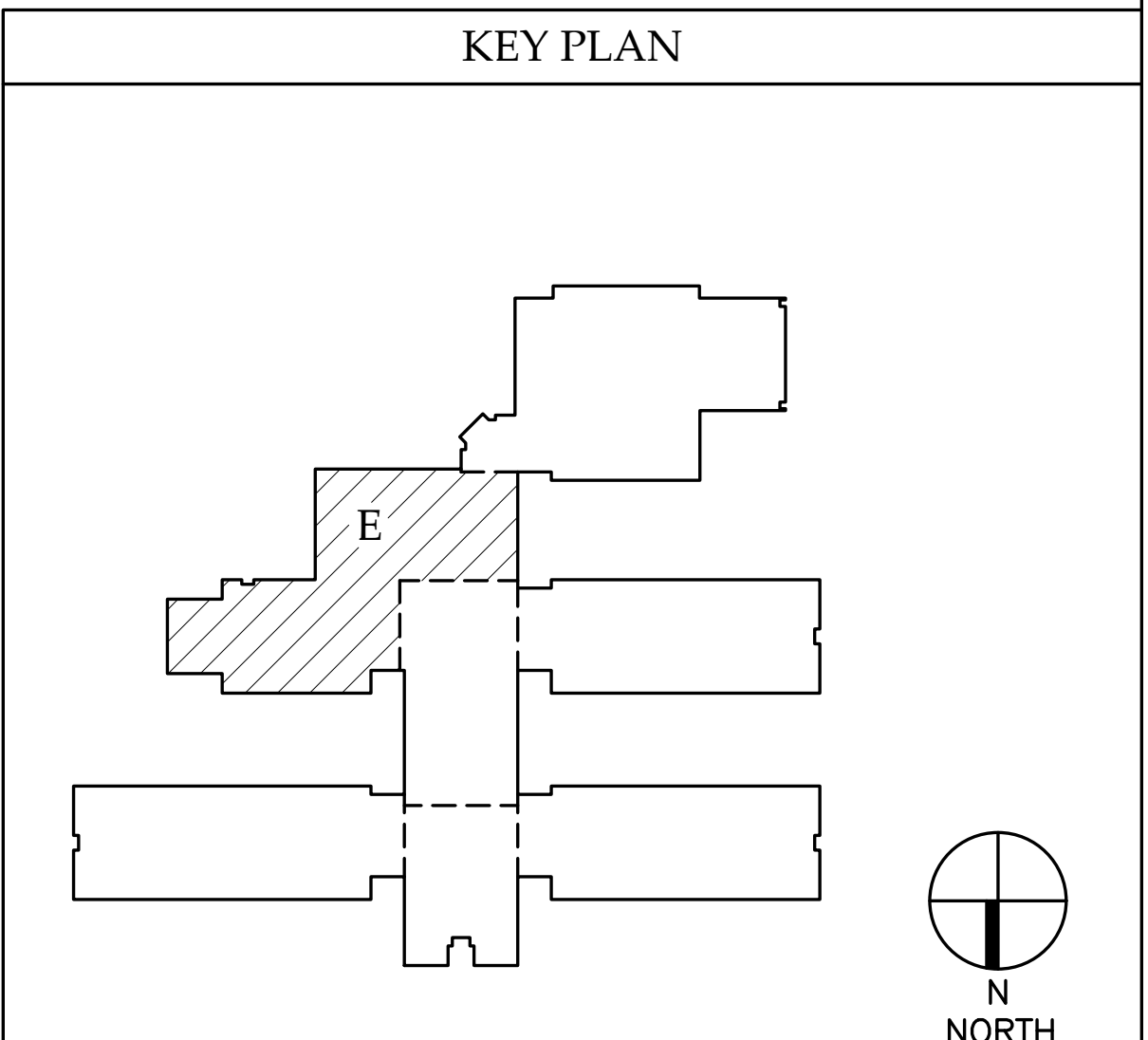
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2 ENLARGED FLOOR PLAN - AREA E - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

1 FLOOR PLAN - AREA E - ELECTRICAL RENOVATION
SCALE: 1/8" = 1'-0"



Project: FORT MILL SCHOOL DISTRICT
 SPRINGFIELD MIDDLE SCHOOL HVAC UPGRADES - PHASE 2
 Sheet Title: FLOOR PLAN - AREA E - ELECTRICAL RENOVATION

Buford Goff & Associates, Inc.
Engineers & Planners

1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
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Sheet Number:
E106

Date: JANUARY 17, 2024
Scale: As Noted
BGA PROJECT NUMBER: 21040
CONSTRUCTION DOCUMENTS