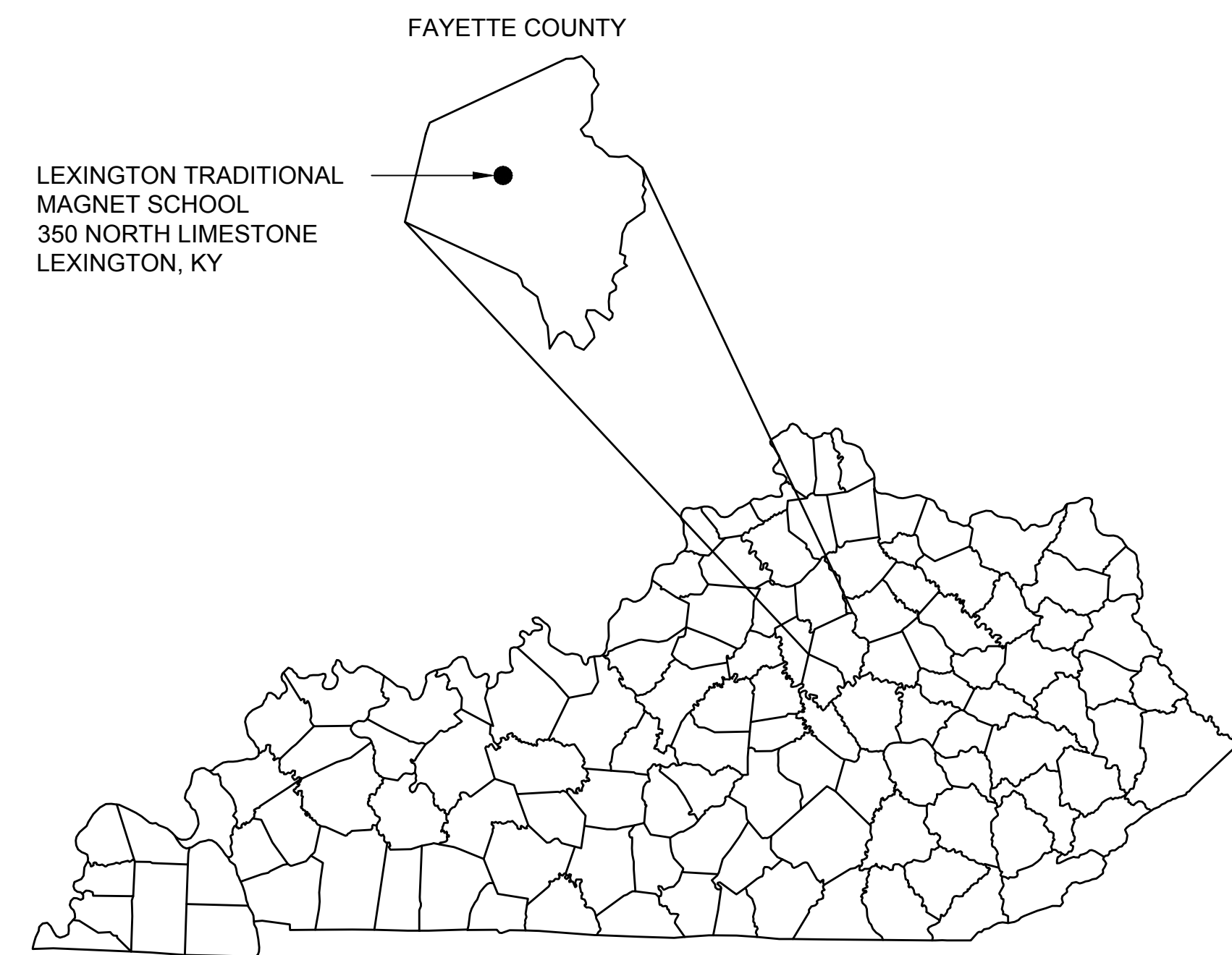


LEXINGTON TRADITIONAL MAGNET SCHOOL HVAC REPLACEMENT FAYETTE COUNTY PUBLIC SCHOOLS

LEXINGTON, KENTUCKY

"CONSTRUCTION DOCUMENTS"



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GRW PROJECT NO. 4973-03

CLIENT PROJECT NO.

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COVER SHEET
LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
350 NORTH LIMESTONE, LEXINGTON, KY

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DRAWN	MAS
REVIEWED	CVS
APPROVED	CVS

NO.	REVISIONS	DATE	BY

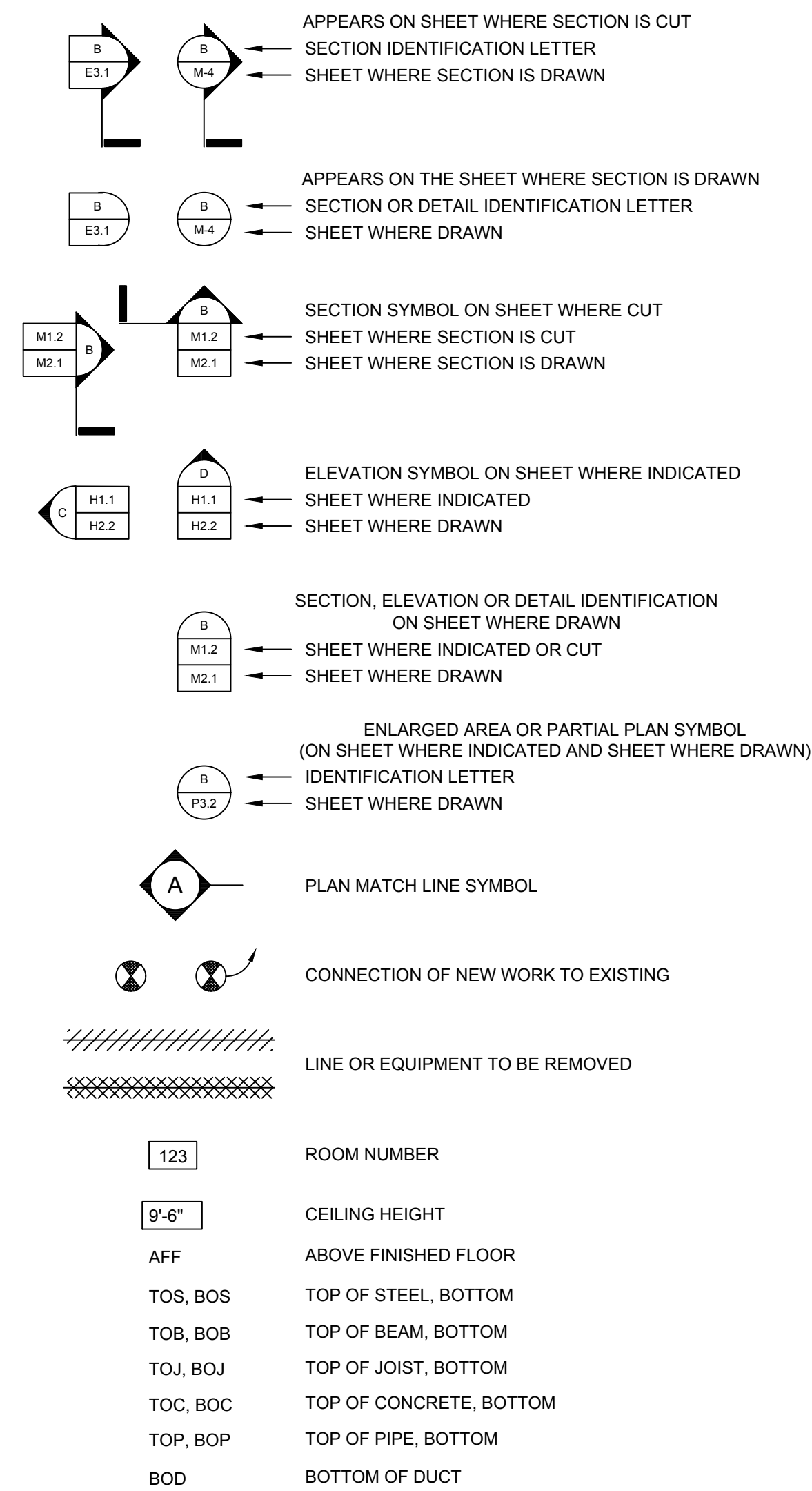
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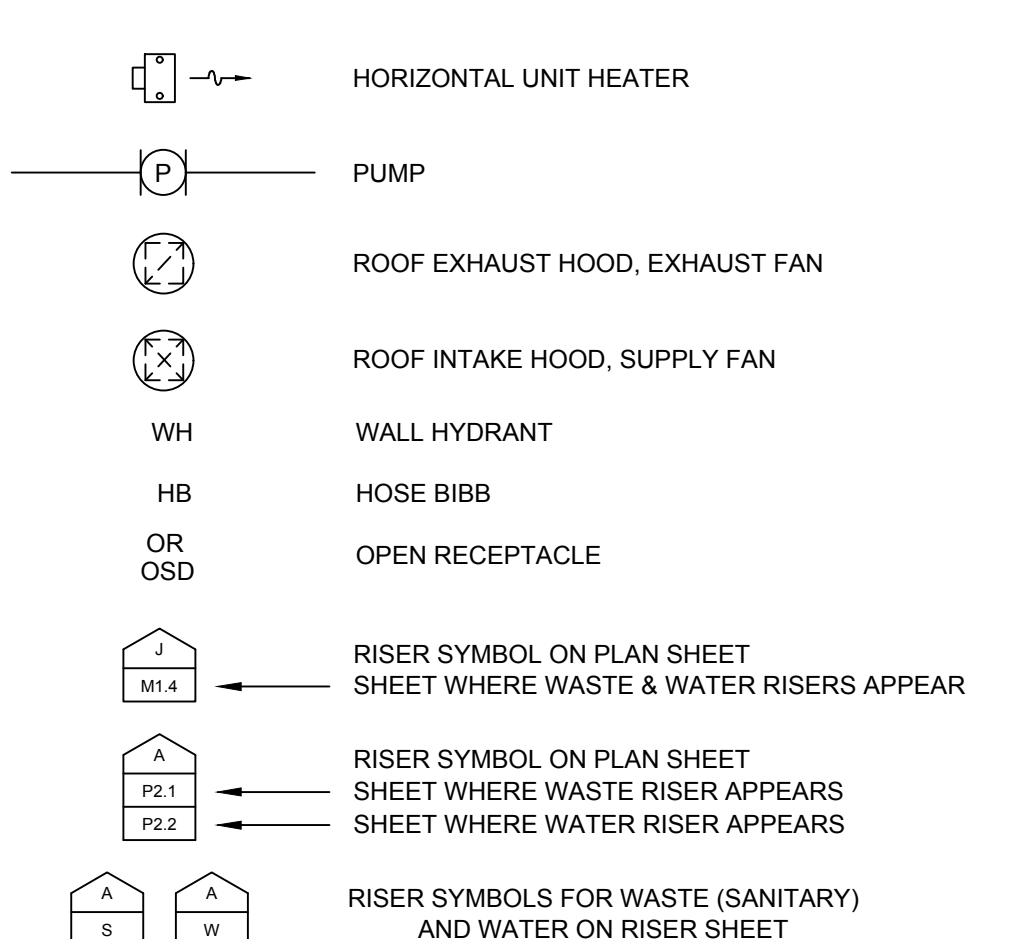
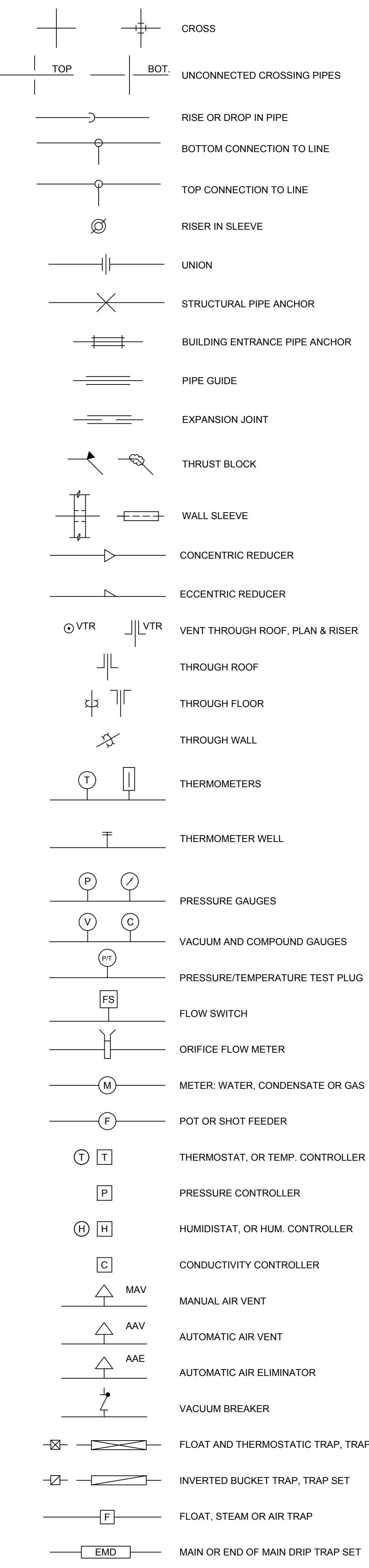
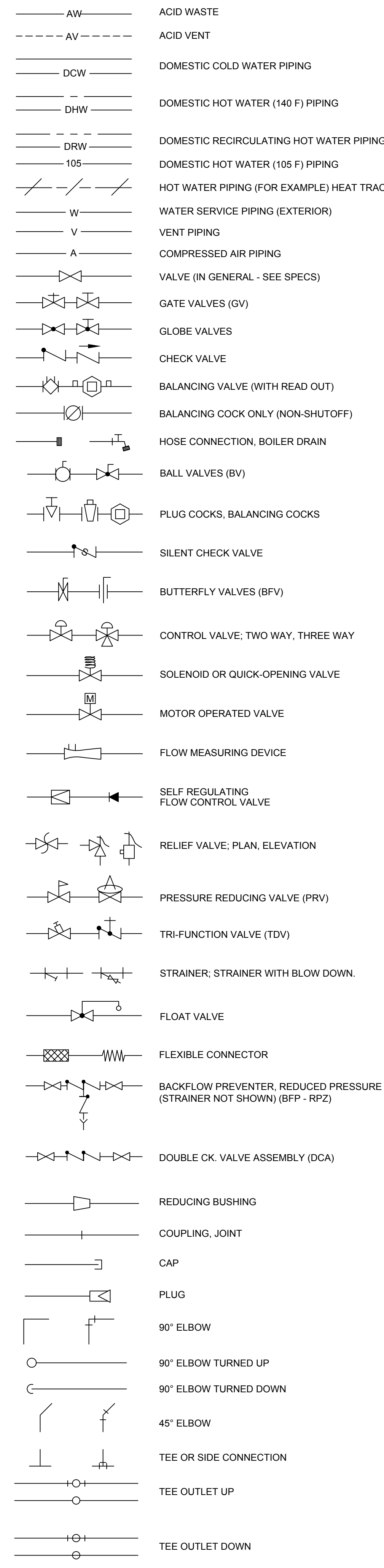
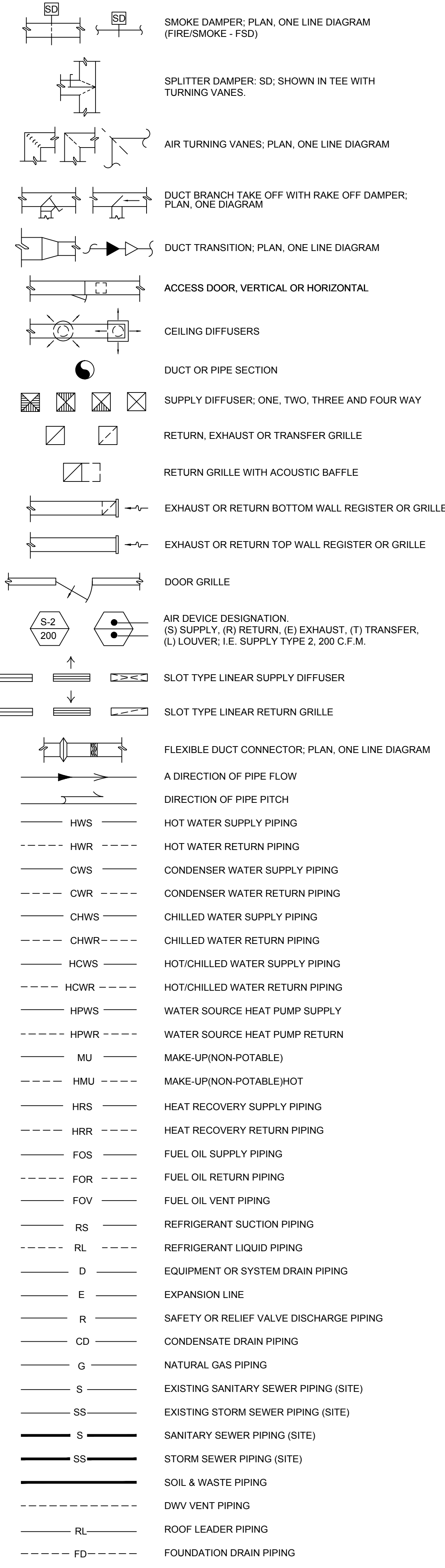
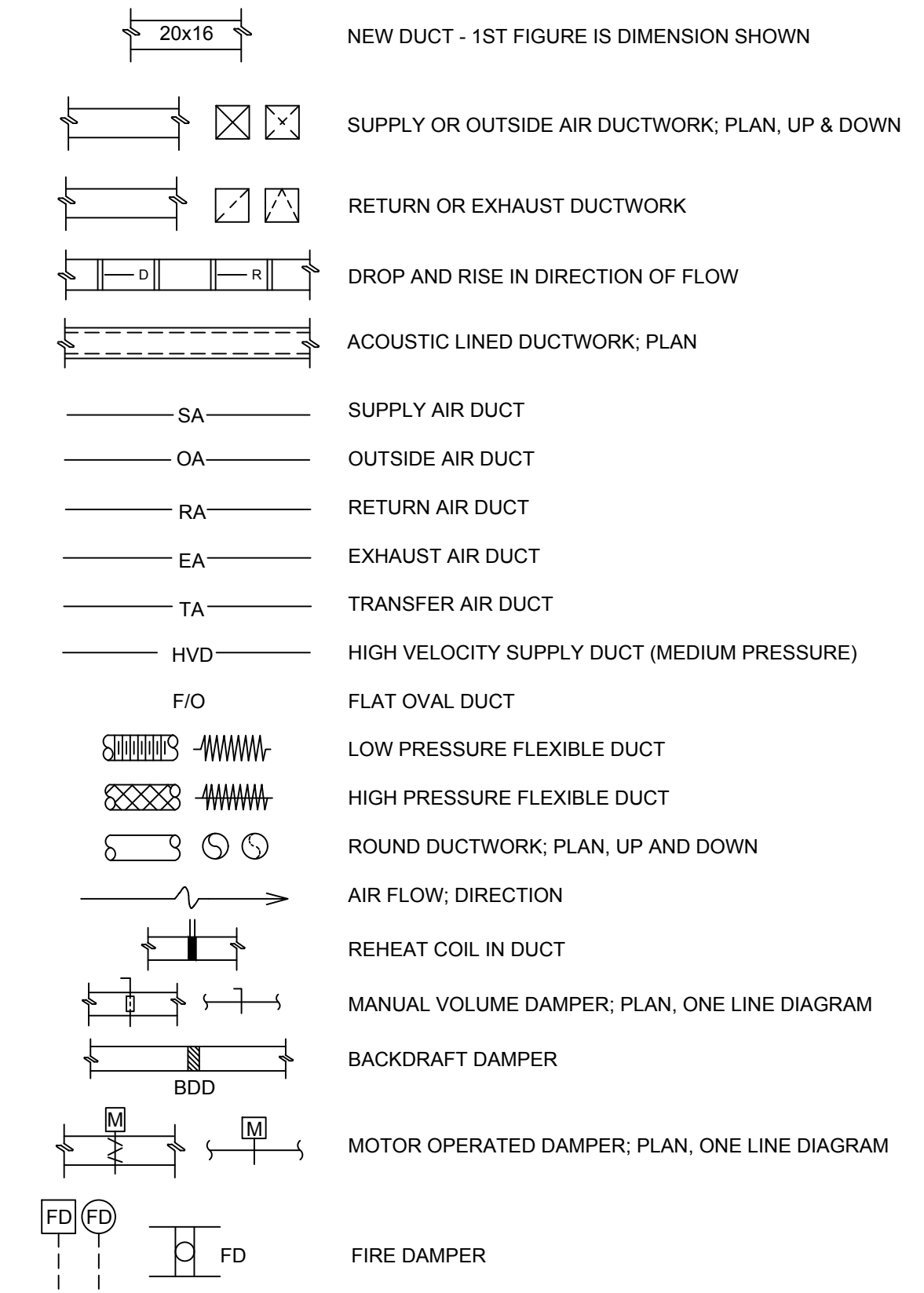
GRW PROJECT NO. 4973-03

G-001

GENERAL LEGEND



MECHANICAL LEGEND HVAC & PLUMBING



GENERAL NOTES:

- FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION & OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ASHRAE, SMACNA, NFPA, EPA, ETC.
- REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
- CONTRACTOR SHALL BECOME, PRIOR TO BID, THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
- THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES). THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED OR INSTALLED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
- COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT.
- INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
- EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID.
- ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL "UL" RATED ASSEMBLIES, FIRE, AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
- ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH ENGINEER AND SHALL BE FLASHED AND SEALED WEATHERTIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY ENGINEER.
- ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES.
- ALL DUCTWORK AND PIPING SHALL BE SUPPORTED FROM STRUCTURE.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 6'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING & KINKING.
- ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AS SHOWN. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.
- ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS SHALL BE FLASHED, COUNTER FLASHED IN WATERPROOF MANNER W/LEAD ROOF JACK.
- CONTRACTOR TO COORDINATE DUCTWORK WITH OTHER TRADES, OFF-SET AS REQUIRED, RUN DUCTWORK BETWEEN JOIST WHERE POSSIBLE.
- CONTRACTOR SHALL VISIT THE JOB SITE & BE FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING ANY EQUIPMENT, DUCTWORK, ETC. NO ALLOWANCES WILL BE MADE FOR CONTRACTOR UNFAMILIARITY WITH PROJECT CONDITIONS.
- MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVES WITH COMPLETE NEBBIA/ABC BALANCE REPORT.
- ALL SQUARE ELBOWS SHALL HAVE TURNING VANES.
- PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- ALL CONTROL WIRING & CONDUIT SHALL COMPLY WITH NEC.
- PIPE AND DUCT ROUTING SHOWN IS SCHEMATIC. HVAC CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS, INCLUDING DIVIDED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS AND LOCATION OF ALL EQUIPMENT.

CRW PROJECT NO. 4975-03

CLIENT PROJECT NO.

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MECHANICAL LEGEND
AND GENERAL NOTES
LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
350 NORTH LIMESTONE, LEXINGTON, KY

NO.	REVISIONS	DESCRIPTION	DESIGNED	STAFF	DRAWN	STAFF	REVIEWED	CVS	APPROVED	CVS
			DATE	BY	DATE	BY	DATE	BY		

DATE: OCTOBER 2023
SCALE: NOT TO SCALE
SHEET NO. M-001

CONTRACTOR: THE WORK SHALL BE DONE EXACTLY AS SHOWN UNLESS OTHERWISE NOTED

DDC CONTROL SYSTEM POINT LIST														
EQUIPMENT	SYSTEM POINT DESCRIPTION	ANALOG				BINARY				SYSTEM FEATURES				
		INPUT	OUTPUT	INPUT	OUTPUT	ALARMS	PROGRAMS							
		TEMPERATURE	PRESSURE	PROPORTION	POSITION	STATUS OPEN/CLOSED	STATUS OPEN/CLOSED	PROLOGUE SWITCH	ALARM STATUS	INTERMEDIATE VALUE	STATUS OPEN/CLOSED	STATUS OPEN/CLOSED	STATUS OPEN/CLOSED	
HEAT PUMP CONTROLLER			X	X	X	X	X	X	X	X	X	X	1, 2	
ZONE PUMPS					X	X	X						3	
MAKEUP AIR UNIT			X	X	X	X			X	X				
SYSTEM CONTROL		X	X	X	X				X	X				
BOILER SYSTEM		X	X	X	X	X							3	
COOLING TOWER PUMPS (2)			X	X	X	X							3	
COOLING TOWER FANS			X	X	X	X							3	
OUTSIDE AIR DAMPERS EXHAUST FANS			X		X								3	

1. SEE DRAWINGS AND SPECIFICATIONS FOR SENSOR TYPES, LOCATION AND NUMBER.
2. SEE DRAWINGS AND SPECIFICATIONS FOR MULTI UNIT CONTROLS AND TWO STAGES OF HEATING & COOLING.
3. SEE SPECIFICATIONS FOR SEQUENCE.

M-002

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OCTOBER 2023

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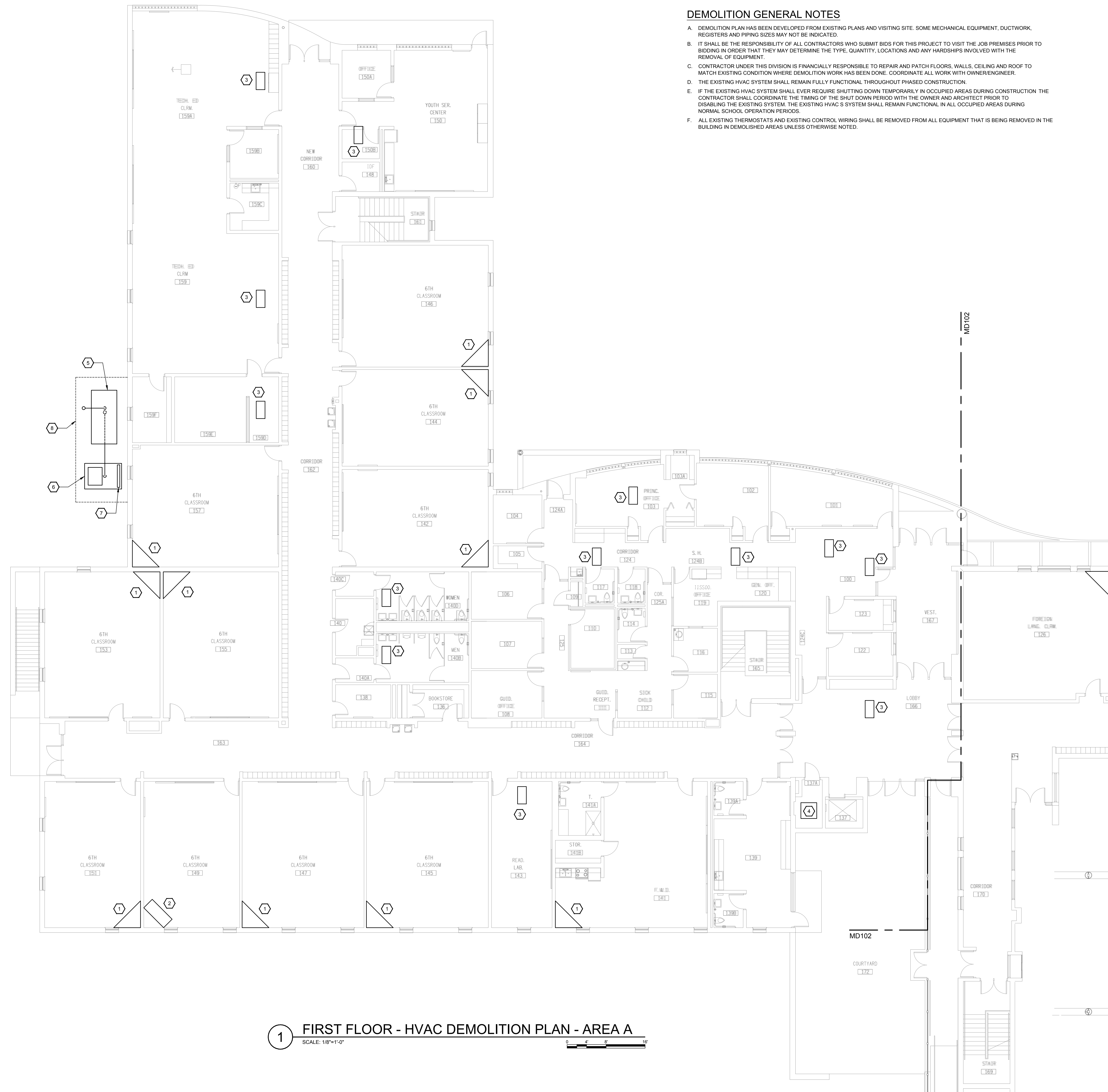
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 APPROVED: CVS

HVAC CONTROLS
 SEQUENCE OF OPERATION
 LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
 350 NORTH LIMESTONE, LEXINGTON, KY

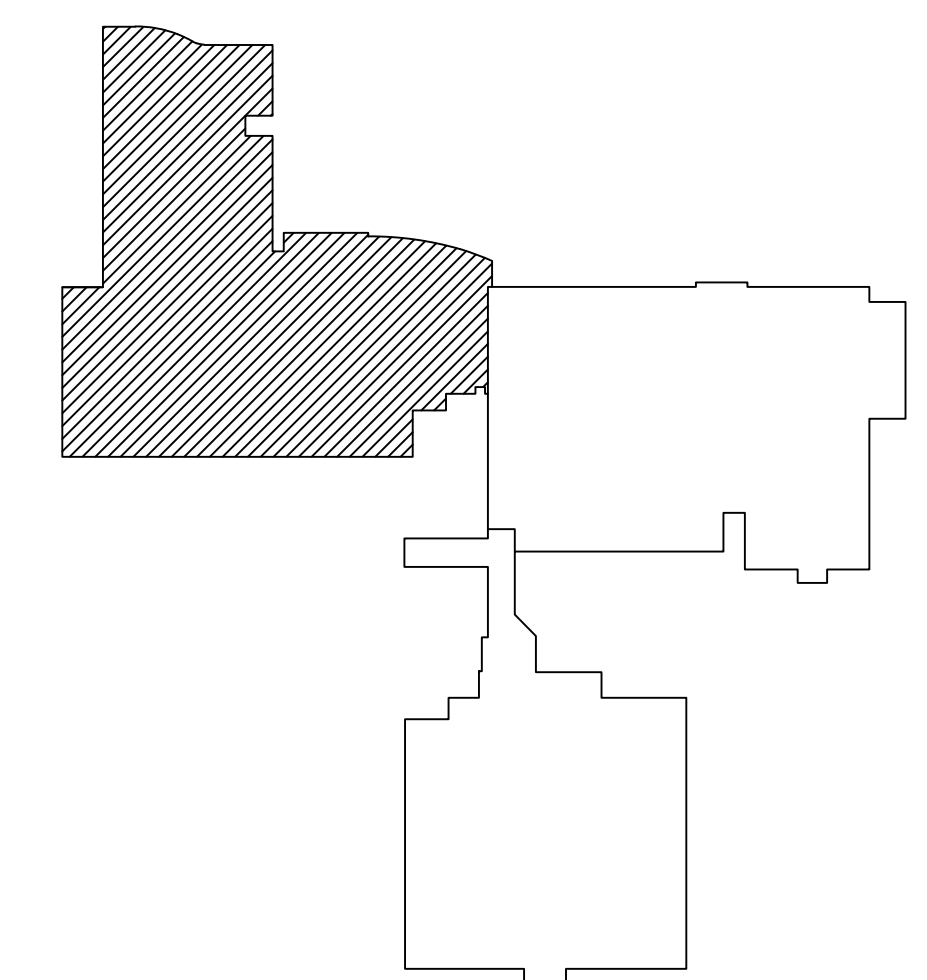
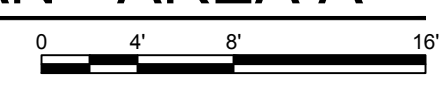
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CLIENT PROJECT NO.
 GRW PROJECT NO. 4973-03

CONSTRUCTION DOCUMENTS



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



KEYPLAN

DEMOLITION GENERAL NOTES

- A. DEMOLITION PLAN HAS BEEN DEVELOPED FROM EXISTING PLANS AND VISITING SITE. SOME MECHANICAL EQUIPMENT, DUCTWORK, REGISTERS AND PIPING SIZES MAY NOT BE INDICATED.
- B. IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HARDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- C. CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- D. THE EXISTING HVAC SYSTEM SHALL REMAIN FULLY FUNCTIONAL THROUGHOUT PHASED CONSTRUCTION.
- E. IF THE EXISTING HVAC SYSTEM SHALL EVER REQUIRE SHUTTING DOWN TEMPORARILY IN OCCUPIED AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE THE TIMING OF THE SHUT DOWN PERIOD WITH THE OWNER AND ARCHITECT PRIOR TO DISABLING THE EXISTING SYSTEM. THE EXISTING HVAC SYSTEM SHALL REMAIN FUNCTIONAL IN ALL OCCUPIED AREAS DURING NORMAL SCHOOL OPERATION PERIODS.
- F. ALL EXISTING THERMOSTATS AND EXISTING CONTROL WIRING SHALL BE REMOVED FROM ALL EQUIPMENT THAT IS BEING REMOVED IN THE BUILDING IN DEMOLISHED AREAS UNLESS OTHERWISE NOTED.

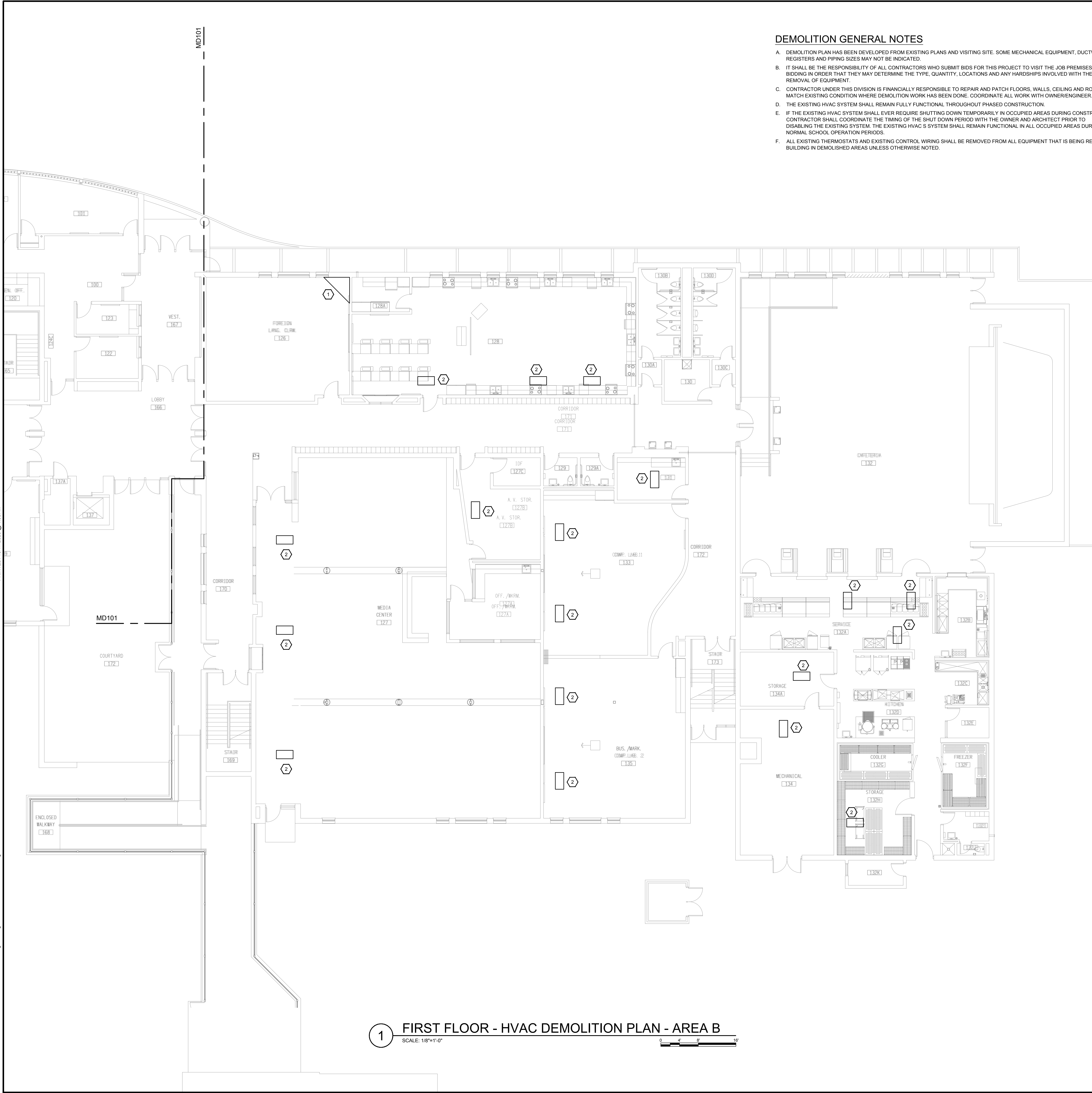
SHEET KEYNOTES:

- 1. EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP SHALL BE REMOVED AND REPLACED. DISCONNECT EXISTING HYDRONIC PIPING AND CONDENSATE PIPING. SEE NEW WORK PLANS FOR NEW HEAT PUMP INFORMATION.
- 2. EXISTING STAND ALONE RECTANGULAR HEAT PUMP SHALL REMAIN IN PLACE.
- 3. EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN IN PLACE.
- 4. EXISTING VERTICAL HEAT PUMP SHALL REMAIN IN PLACE.
- 5. EXISTING COOLING TOWER SHALL BE REMOVED AND REPLACED WITH NEW DISCONNECT AND REMOVE EXISTING ABOVE GROUND PIPING. REMOVE EXISTING SUPPORT BEAMS. THE EXISTING CONCRETE PEDESTALS SHALL REMAIN IN PLACE. SEE NEW WORK PLANS FOR NEW HEAT PUMP INFORMATION.
- 6. EXISTING COOLING TOWER SUMP SHALL REMAIN IN PLACE AND BE REUSED.
- 7. EXISTING COOLING TOWER CONTROL PANELS SHALL BE REMOVED AND REPLACED. SE NEW WORK PLANS FOR MORE INFORMATION.
- 8. EXISTING CHAIN LINK FENCE SHALL BE REMOVED BY FAYETTE COUNTY PUBLIC SCHOOLS FOR NEW COOLING TOWER INSTALLATION. FCPS WILL INSTALL NEW FENCE ONCE WORK IS COMPLETE.

FIRST FLOOR HVAC DEMOLITION PLAN - AREA A									
LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY									
GRY PROJECT NO. 4973-03 CLIENT PROJECT NO. engineering architecture geospatial www.gwinc.com	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	DESCRIPTION				
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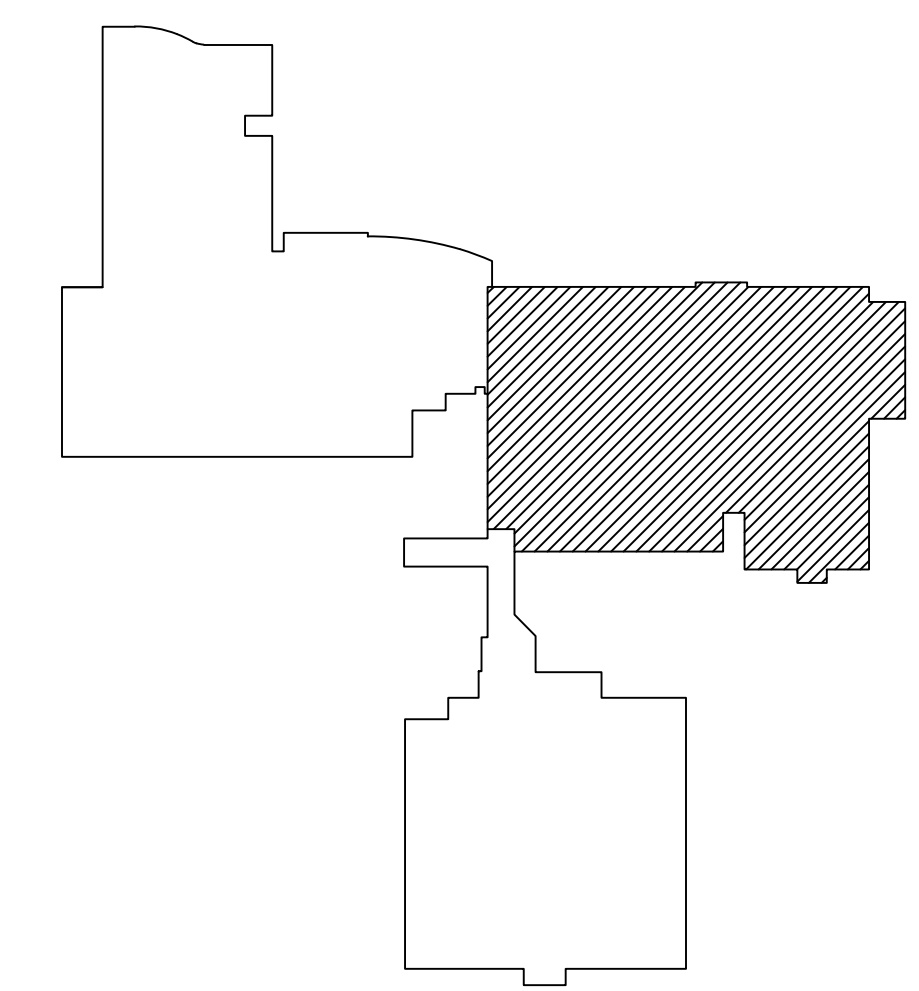
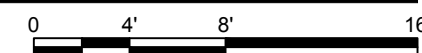
DEMOLITION GENERAL NOTES

- A. DEMOLITION PLAN HAS BEEN DEVELOPED FROM EXISTING PLANS AND VISITING SITE. SOME MECHANICAL EQUIPMENT, DUCTWORK, REGISTERS AND PIPING SIZES MAY NOT BE INDICATED.
- B. IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HARDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- C. CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- D. THE EXISTING HVAC SYSTEM SHALL REMAIN FULLY FUNCTIONAL THROUGHOUT PHASED CONSTRUCTION.
- E. IF THE EXISTING HVAC SYSTEM SHALL EVER REQUIRE SHUTTING DOWN TEMPORARILY IN OCCUPIED AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE THE TIMING OF THE SHUT DOWN PERIOD WITH THE OWNER AND ARCHITECT PRIOR TO DISABLING THE EXISTING SYSTEM. THE EXISTING HVAC S SYSTEM SHALL REMAIN FUNCTIONAL IN ALL OCCUPIED AREAS DURING NORMAL SCHOOL OPERATION PERIODS.
- F. ALL EXISTING THERMOSTATS AND EXISTING CONTROL WIRING SHALL BE REMOVED FROM ALL EQUIPMENT THAT IS BEING REMOVED IN THE BUILDING IN DEMOLISHED AREAS UNLESS OTHERWISE NOTED.

○ SHEET KEYNOTES:

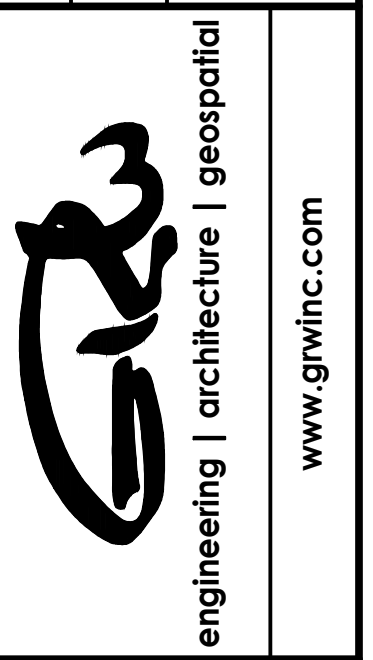
- 1. EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP SHALL BE REMOVED AND REPLACED. DISCONNECT EXISTING HYDRONIC PIPING AND CONDENSATE PIPING. SEE NEW WORK PLANS FOR NEW HEAT PUMP UNIT INFORMATION.
- 2. EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN IN PLACE.

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



KEYPLAN

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FIRST FLOOR
HVAC DEMOLITION PLAN - AREA B
 LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
 350 NORTH LIMESTONE, LEXINGTON, KY

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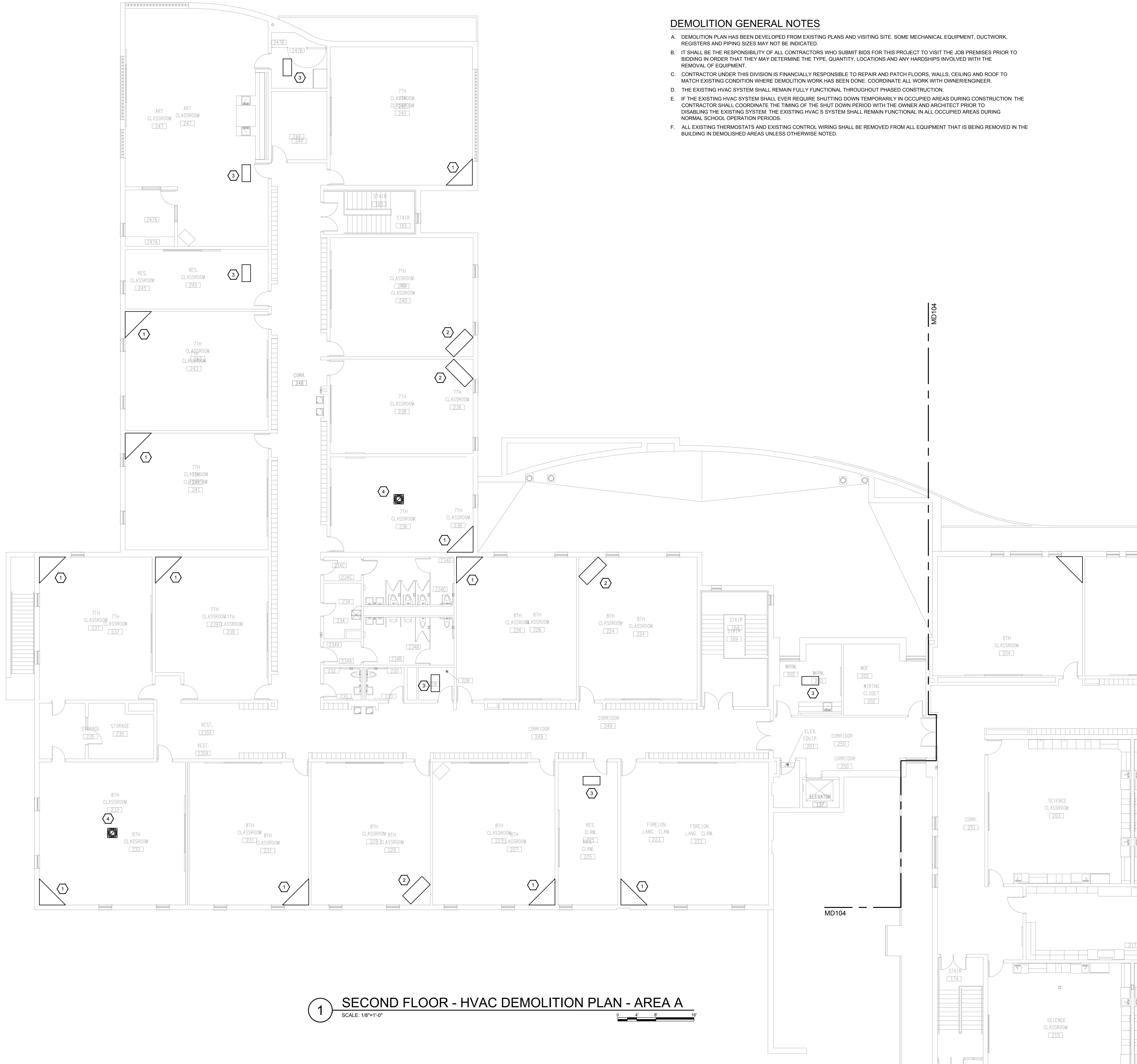
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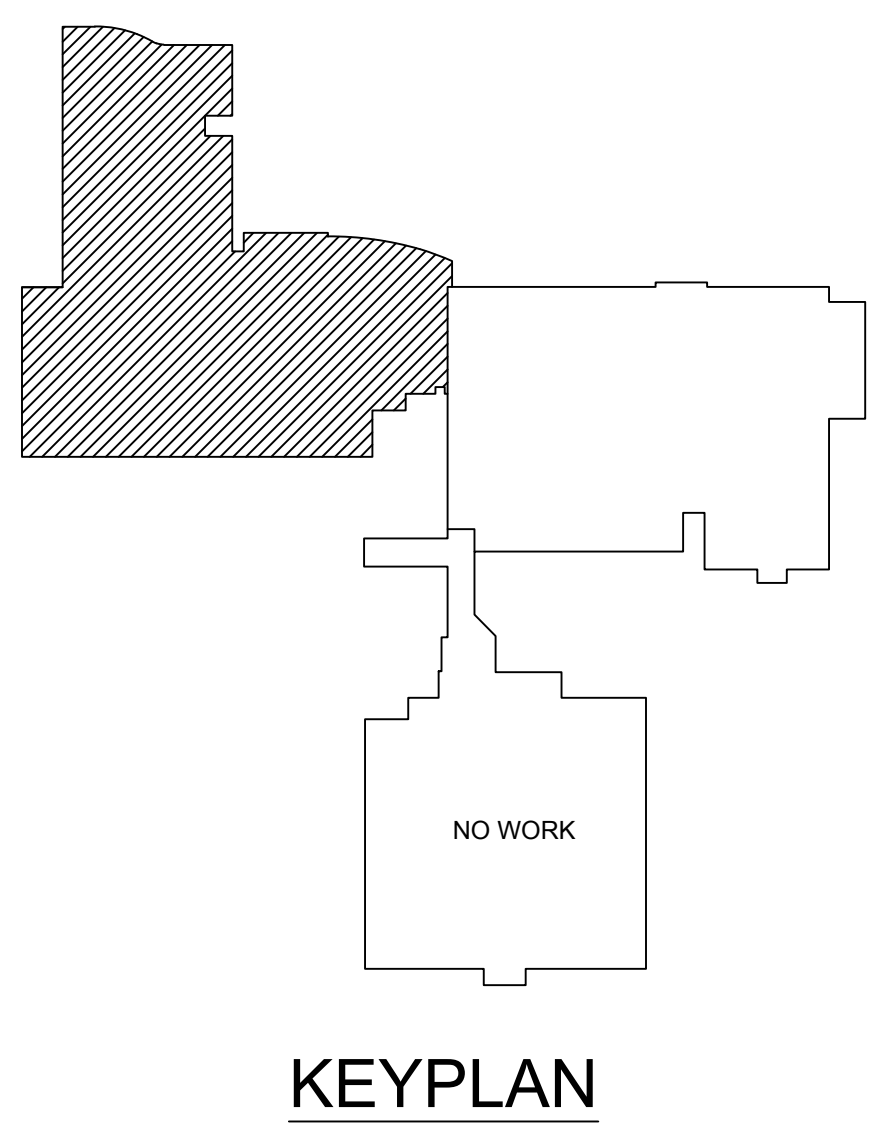
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1 SECOND FLOOR - HVAC DEMOLITION PLAN - AREA A
 SCALE: 1/8"=1'-0"
 0 4 8 16'



DEMOLITION GENERAL NOTES

- A. DEMOLITION PLAN HAS BEEN DEVELOPED FROM EXISTING PLANS AND VISITING SITE. SOME MECHANICAL EQUIPMENT, DUCTWORK, REGISTERS AND PIPING SIZES MAY NOT BE INDICATED.
- B. IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HARDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- C. CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- D. THE EXISTING HVAC SYSTEM SHALL REMAIN FULLY FUNCTIONAL THROUGHOUT PHASED CONSTRUCTION.
- E. IF THE EXISTING HVAC SYSTEM SHALL EVER REQUIRE SHUTTING DOWN TEMPORARILY IN OCCUPIED AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE THE TIMING OF THE SHUT DOWN PERIOD WITH THE OWNER AND ARCHITECT PRIOR TO DISABLING THE EXISTING SYSTEM. THE EXISTING HVAC S SYSTEM SHALL REMAIN FUNCTIONAL IN ALL OCCUPIED AREAS DURING NORMAL SCHOOL OPERATION PERIODS.
- F. ALL EXISTING THERMOSTATS AND EXISTING CONTROL WIRING SHALL BE REMOVED FROM ALL EQUIPMENT THAT IS BEING REMOVED IN THE BUILDING IN DEMOLISHED AREAS UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

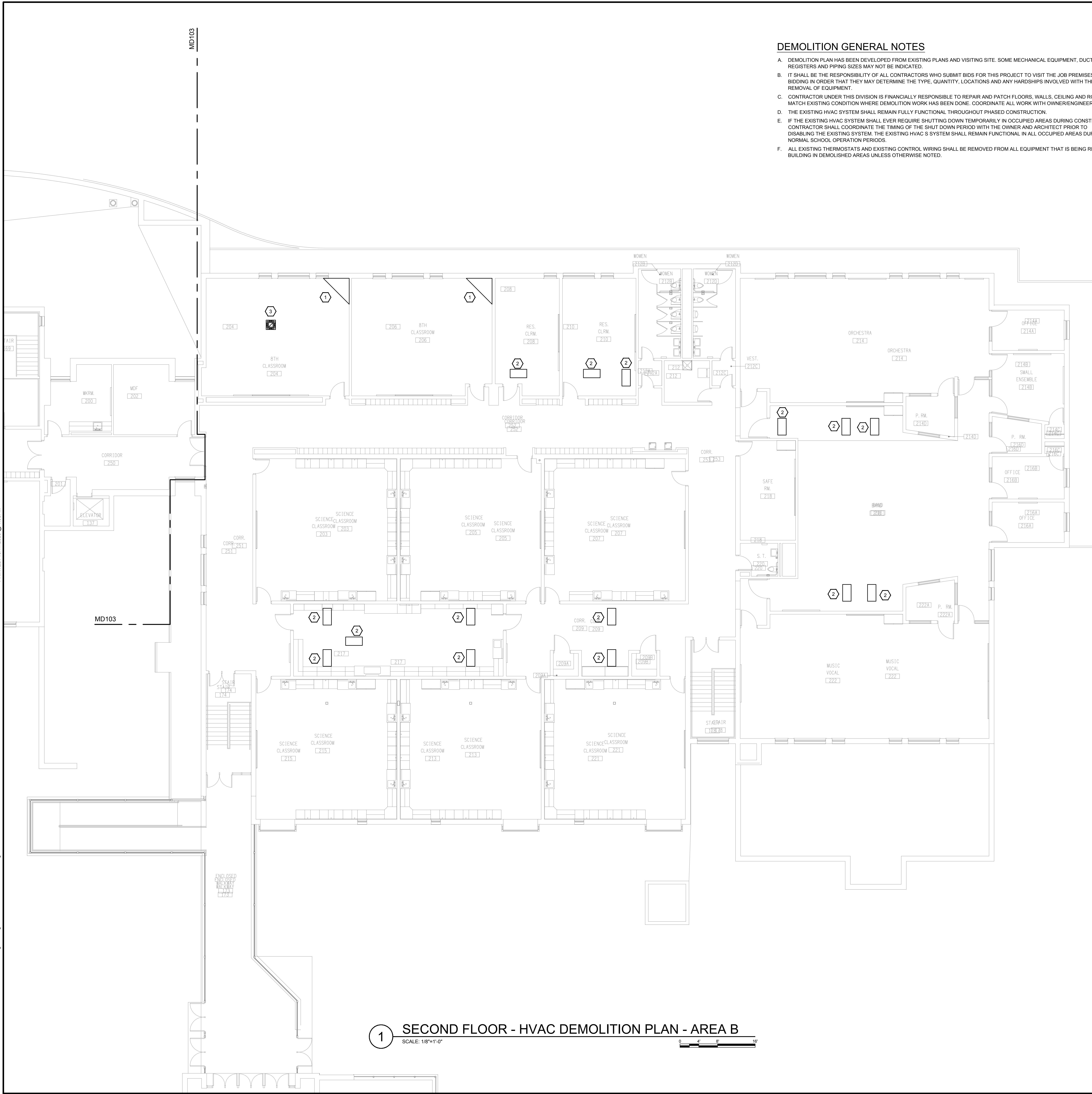
- 1. EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP SHALL BE REMOVED AND REPLACED. DISCONNECT EXISTING HYDRONIC PIPING AND CONDENSATE PIPING. SEE NEW WORK PLANS FOR NEW HEAT PUMP INFORMATION.
- 2. EXISTING STAND ALONE RECTANGULAR HEAT PUMP SHALL REMAIN IN PLACE.
- 3. EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN IN PLACE.
- 4. EXISTING VRF CASSETTE ALONG WITH ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND OUTDOOR CONDENSING UNIT SHALL REMAIN IN PLACE. THIS UNIT SHALL BECOME A BACKUP TO THE NEW HEAT PUMP TO BE INSTALLED IN THE ROOM.

<p>SECOND FLOOR HVAC DEMOLITION PLAN - AREA A LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY</p>		<p>www.gwinc.com</p>												
<p>GRW PROJECT NO. 4973-03</p>	<p>CLIENT PROJECT NO.</p>	<p>THIS DOCUMENT IS THE PROPERTY OF GIRB AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF GIRB.</p>												
<p>DESIGNED: CMF</p>	<p>DRAWN: CMF</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION									
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<p>APPROVED: CVS</p>	<p>DATE: OCTOBER 2023</p>	<p>SCALE: 1/8" = 1'-0"</p>												
<p>MD103</p>		<p>NO WORK</p>												

CONSTRUCTION DOCUMENTS

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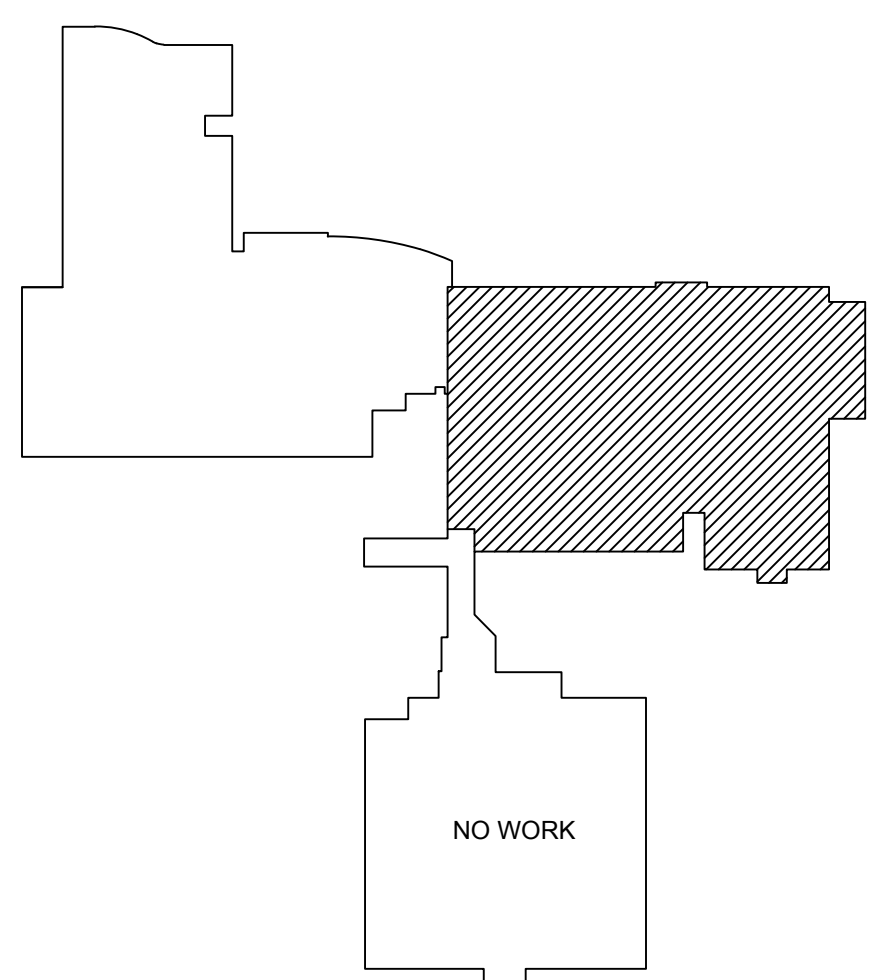
DEMOLITION GENERAL NOTES

- A. DEMOLITION PLAN HAS BEEN DEVELOPED FROM EXISTING PLANS AND VISITING SITE. SOME MECHANICAL EQUIPMENT, DUCTWORK, REGISTERS AND PIPING SIZES MAY NOT BE INDICATED.
- B. IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HARDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- C. CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- D. THE EXISTING HVAC SYSTEM SHALL REMAIN FULLY FUNCTIONAL THROUGHOUT PHASED CONSTRUCTION.
- E. IF THE EXISTING HVAC SYSTEM SHALL EVER REQUIRE SHUTTING DOWN TEMPORARILY IN OCCUPIED AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE THE TIMING OF THE SHUT DOWN PERIOD WITH THE OWNER AND ARCHITECT PRIOR TO DISABLING THE EXISTING SYSTEM. THE EXISTING HVAC S SYSTEM SHALL REMAIN FUNCTIONAL IN ALL OCCUPIED AREAS DURING NORMAL SCHOOL OPERATION PERIODS.
- F. ALL EXISTING THERMOSTATS AND EXISTING CONTROL WIRING SHALL BE REMOVED FROM ALL EQUIPMENT THAT IS BEING REMOVED IN THE BUILDING IN DEMOLISHED AREAS UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

- 1. EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP SHALL BE REMOVED AND REPLACED. DISCONNECT EXISTING HYDRONIC PIPING AND CONDENSATE PIPING. SEE NEW WORK PLANS FOR NEW HEAT PUMP INFORMATION.
- 2. EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN IN PLACE.
- 3. EXISTING VRF CASSETTE ALONG WITH ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND OUTDOOR CONDENSING UNIT SHALL REMAIN IN PLACE. THIS UNIT SHALL BECOME A BACKUP TO THE NEW HEAT PUMP TO BE INSTALLED IN THE ROOM.

1 SECOND FLOOR - HVAC DEMOLITION PLAN - AREA B
 SCALE: 1/8"=1'-0"
 0 4 8 16'



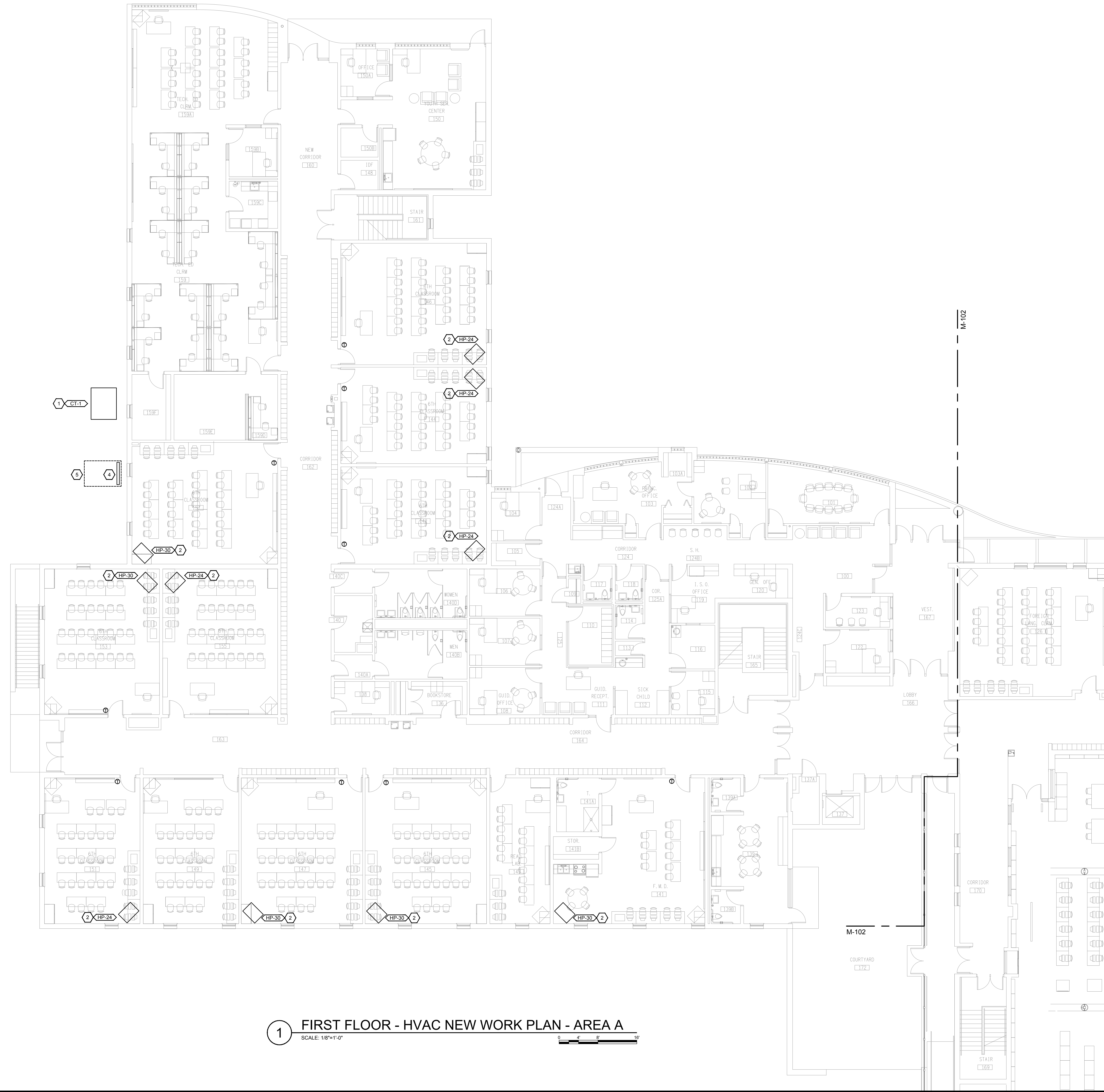
KEYPLAN

 engineering architecture geospatial www.girbinc.com		GRW PROJECT NO. 4973-03 CLIENT PROJECT NO.
SECOND FLOOR HVAC DEMOLITION PLAN - AREA B LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY		
DESIGNED BY: CMF DRAWN BY: CMF REVISIONS: CMF APPROVED BY: CVS	DATE:	DATE: OCTOBER 2023 SCALE: 1/8" = 1'-0" SHEET NO. MD104
REVISIONS: NO. DESCRIPTION FOR CHECK: THIS DRAWING SHOULD BE USED EXACTLY AS WHEN PRINTED		

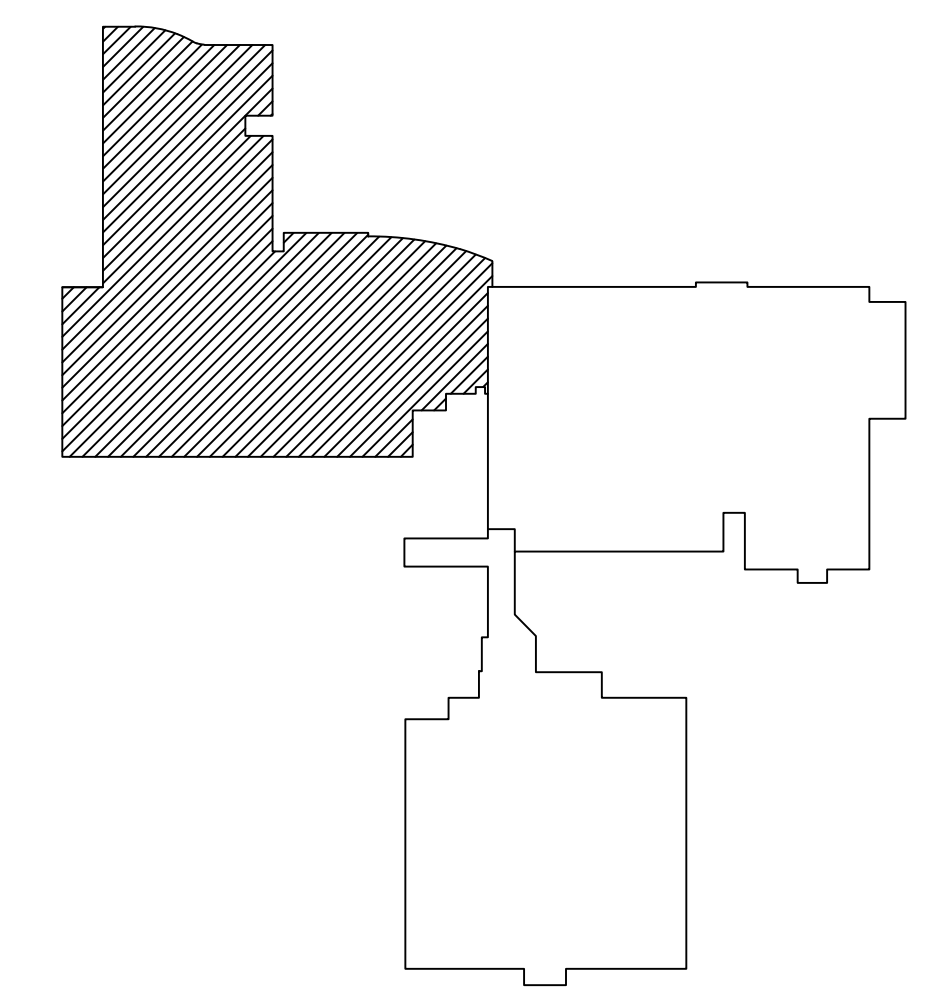
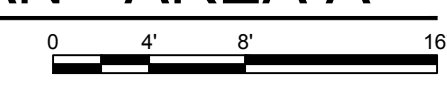
CONSTRUCTION DOCUMENTS

PRINTED: 10/17/2023 @ 1:08PM

FILE NAME: G:\4973\FCS\HC\15103_FCS\1.TMS\HVAC\Working Drawings\AreaA\4973-03-M-101.dwg



1 FIRST FLOOR - HVAC NEW WORK PLAN - AREA A
 SCALE: 1/8"=1'-0"



KEYPLAN

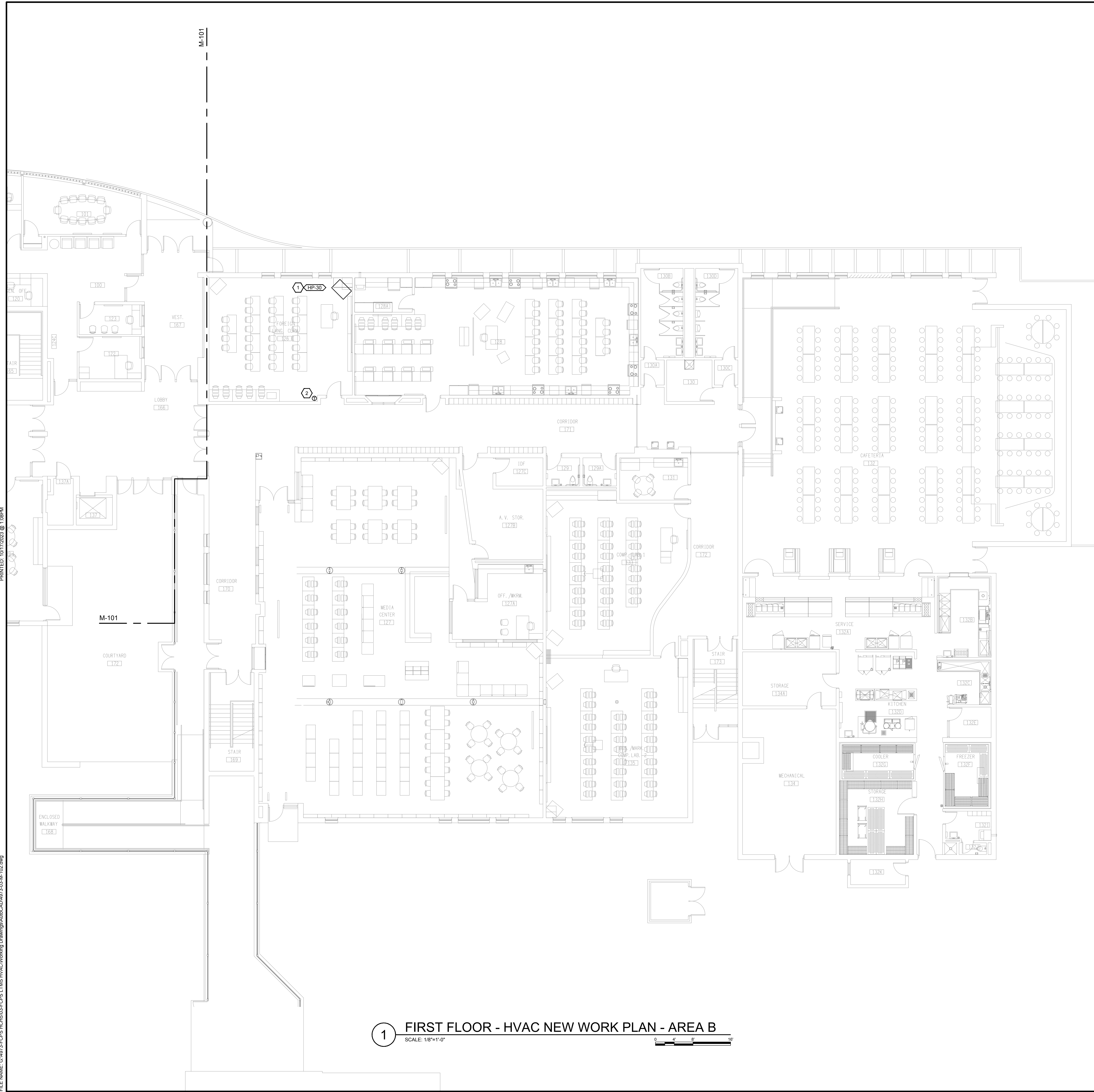
SHEET KEYNOTES:

- FURNISH AND INSTALL NEW COOLING TOWER IN PLACE OF EXISTING COOLING TOWER. INSTALL NEW COOLING TOWER SUPPORTS.
- FURNISH AND INSTALL NEW STAND ALONE RECTANGULAR WATER SOURCE HEAT PUMP. INSTALL NEW HYDRONIC PIPING CONNECTIONS FROM MAINS TO UNIT. INSTALL NEW CONDENSATE PIPING. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW THERMOSTAT AT THIS LOCATION. TYPICAL OF ALL SHOWN.
- FURNISH AND INSTALL NEW COOLING TOWER CONTROLS AND DISCONNECT ON UNISTRUT AT THIS LOCATION.
- EXISTING BELOW GRADE SUMP FOR COOLING TOWER SHALL REMAIN IN PLACE AND BE REUSED.

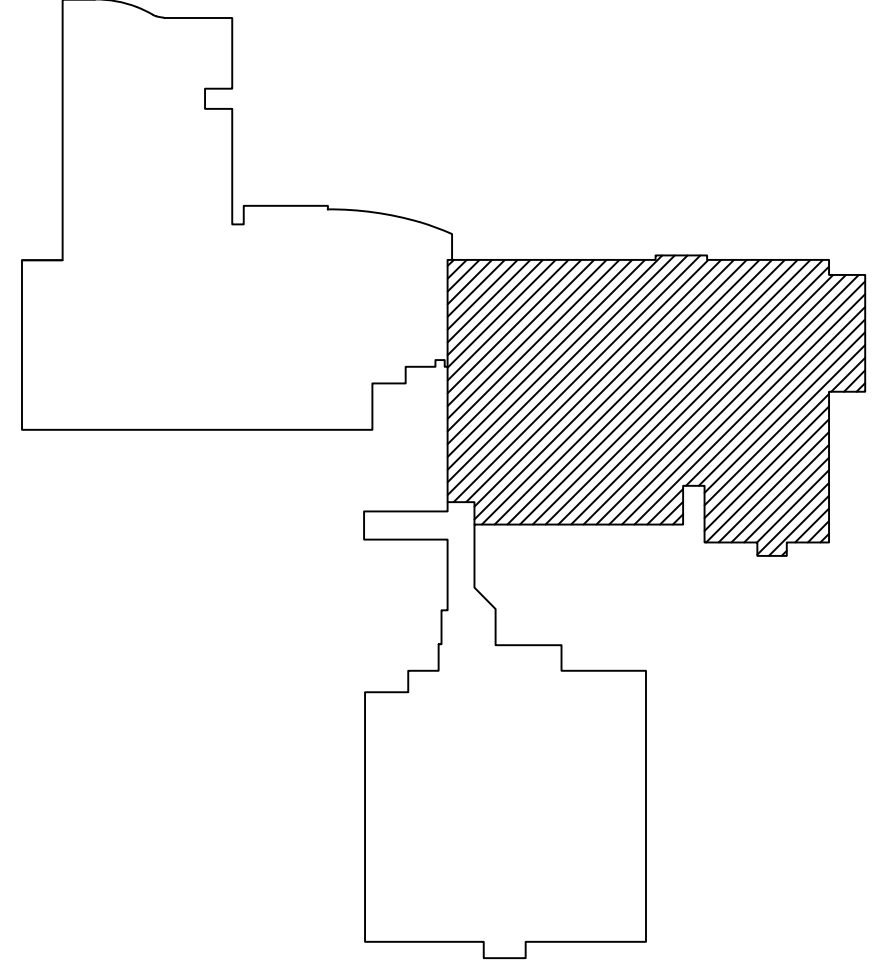
<p>GW engineering architecture geospatial www.gwinc.com</p>		CLIENT PROJECT NO. GW PROJECT NO. 4973-03
<p>FIRST FLOOR HVAC NEW WORK PLAN - AREA A</p> <p>LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY</p>		
DESIGNED CMF DRAWN	CHECKED CMF	APPROVED CVS
NO. _____ DATE _____ DESCRIPTION _____	REVISIONS	
DATE: OCTOBER 2023 SCALE: 1/8" = 1'-0" SHEET NO.		
<p>M-101</p>		<p>CONSTRUCTION DOCUMENTS</p>

PRINTED: 10/17/2023 @ 1:08PM

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1 FIRST FLOOR - HVAC NEW WORK PLAN - AREA B
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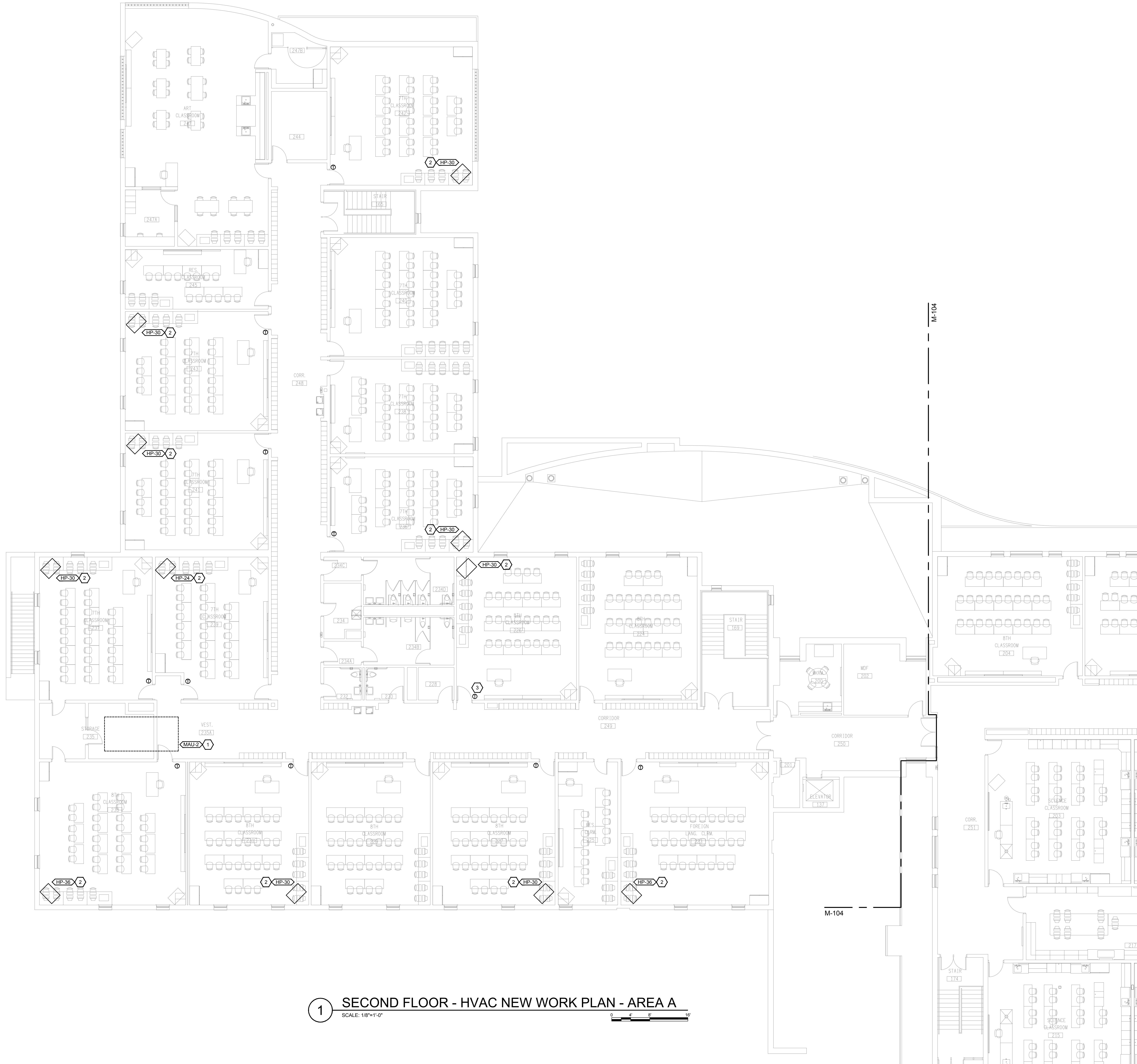


KEYPLAN

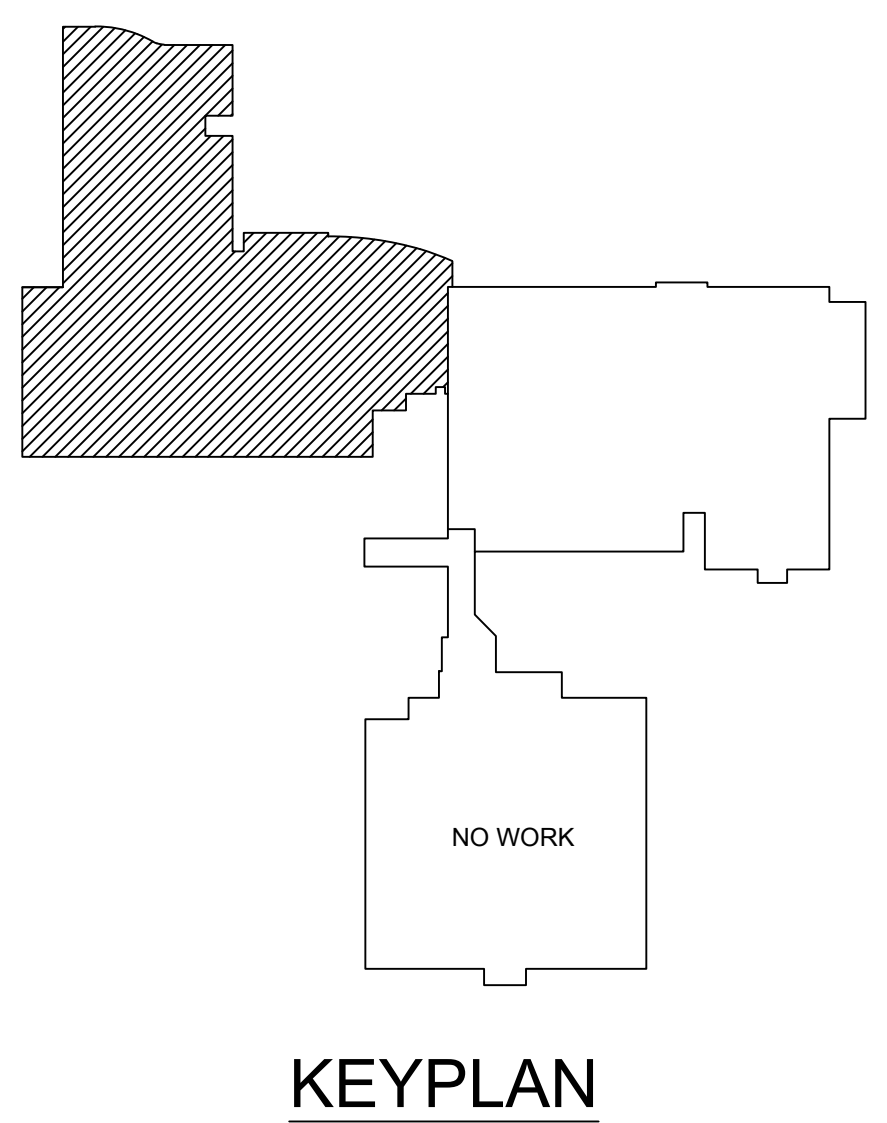
SHEET KEYNOTES:

- FURNISH AND INSTALL NEW STAND ALONE RECTANGULAR WATER SOURCE HEAT PUMP. INSTALL NEW HYDRONIC PIPING CONNECTIONS FROM MAINS TO UNIT. INSTALL NEW CONDENSATE PIPING. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
- FURNISH AND INSTALL NEW THERMOSTAT AT THIS LOCATION. TYPICAL OF ALL SHOWN.

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FIRST FLOOR HVAC NEW WORK PLAN - AREA B LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY	
DESIGNED CMF	BY CMF
DATE	REVIEWED CVS
REVISIONS DESCRIPTION	APPROVED CVS
NO.	DATE
FOR CHECK	THIS DRAWING SHOULD BE USED EXACTLY AS WHEN PRINTED
DATE: OCTOBER 2023	SCALE: 1/8" = 1'-0"
SHEET NO.: M-102	CONSTRUCTION DOCUMENTS



1 SECOND FLOOR - HVAC NEW WORK PLAN - AREA A
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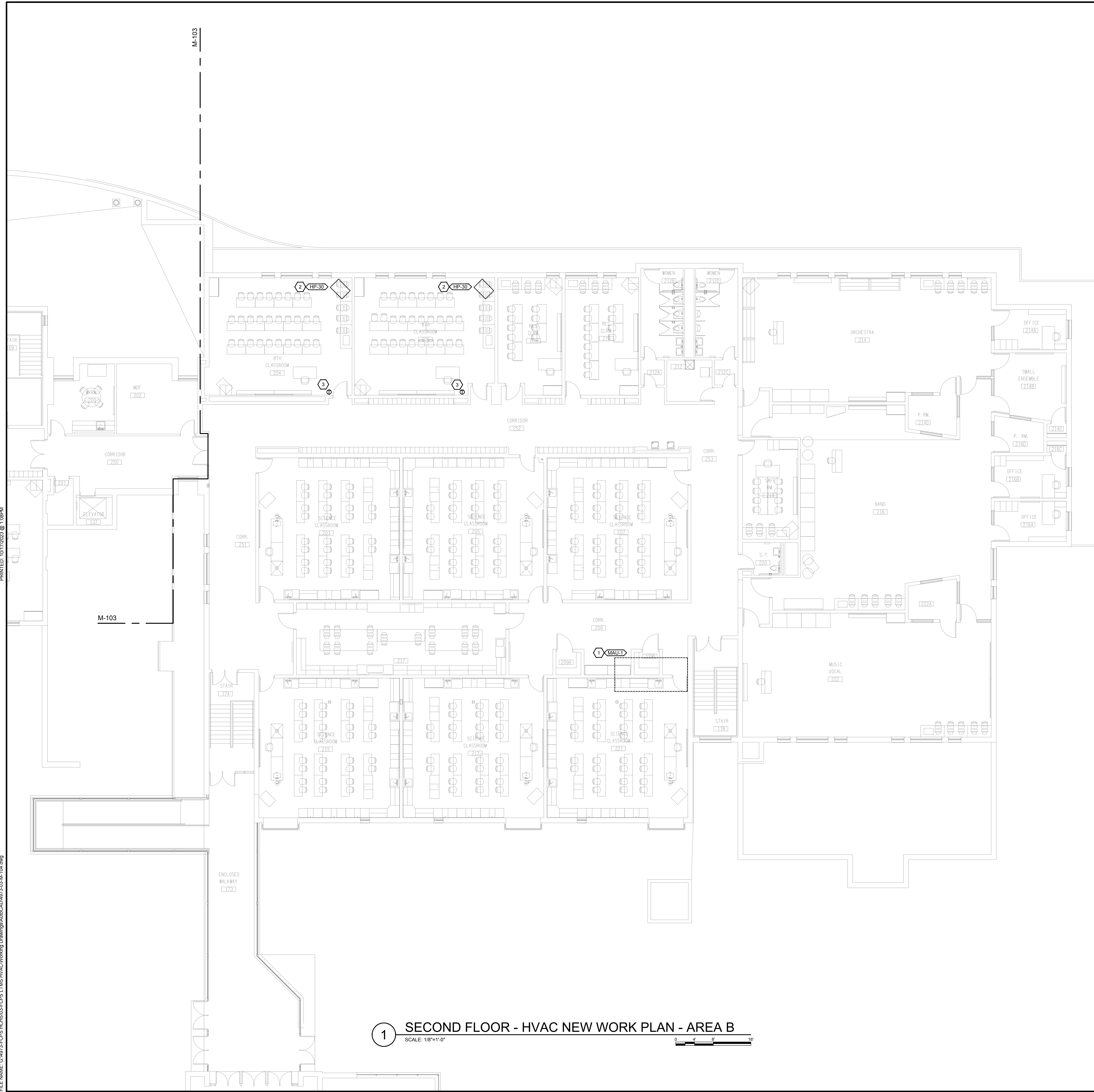


- SHEET KEYNOTES:**
- FURNISH AND INSTALL NEW DEDICATED OUTSIDE AIR MAKEUP AIR UNIT ON ROOF ABOVE EXISTING ROOF CURB SHALL REMAIN AND A ROOF CURB ADAPTER SHALL BE ADDED IF NEEDED. CONNECT DUCT FROM NEW UNIT DOWN TO EXISTING DUCTWORK BELOW.
 - FURNISH AND INSTALL NEW STAND ALONE RECTANGULAR WATER SOURCE HEAT PUMP. INSTALL NEW HYDRONIC PIPING CONNECTIONS FROM MAINS TO UNIT. INSTALL NEW CONDENSATE PIPING. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
 - FURNISH AND INSTALL NEW THERMOSTAT AT THIS LOCATION. TYPICAL OF ALL SHOWN.

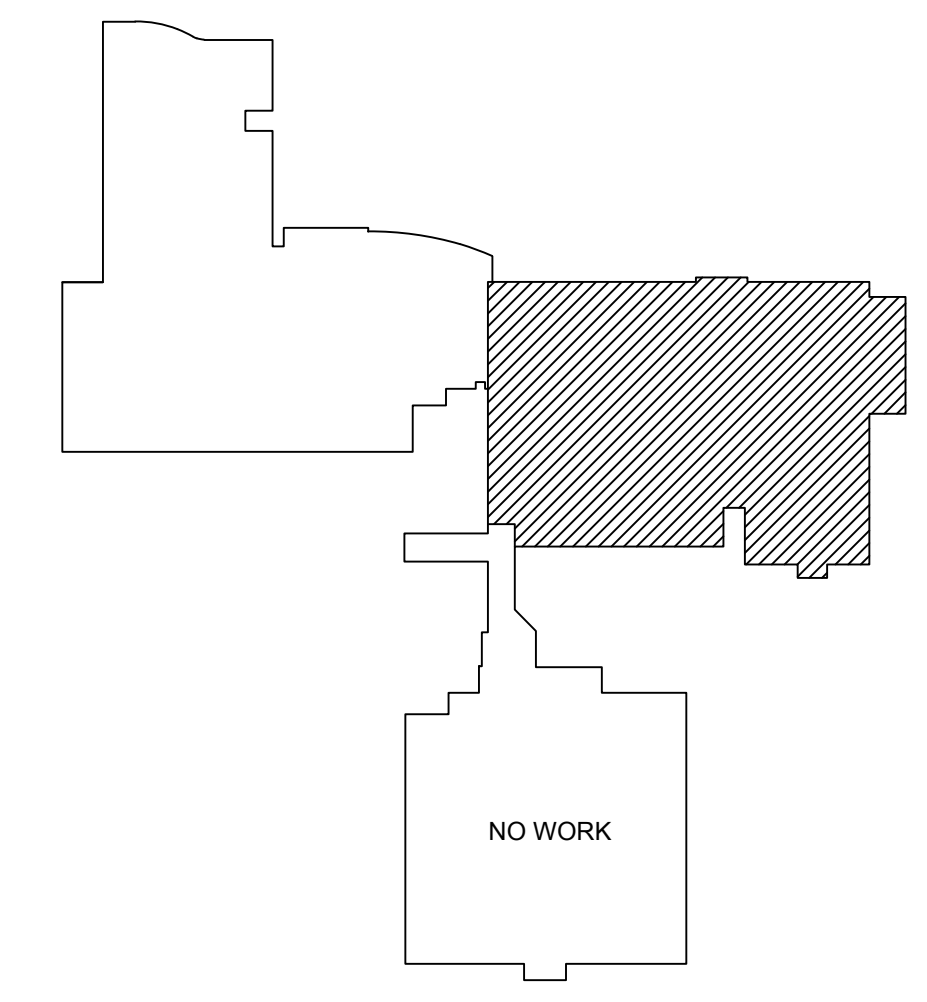
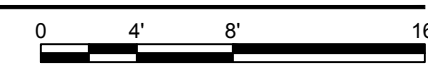
GRYM PROJECT NO. 4973-03 CLIENT PROJECT NO.	
 www.grym.com	
SECOND FLOOR HVAC NEW WORK PLAN - AREA A LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY	
DESIGNED CMF	DRAWN CMF
REVISIONS DESCRIPTION	REVIEWED CVS
DATE BY	APPROVED CVS
NO.	DATE
DATE: OCTOBER 2023	SCALE: 1/8" = 1'-0"
SHEET NO.	SHEET NO.
M-103	M-103

FILE NAME: G:\4973\FPS HCL\5103_FPS LIMS HVAC\Working Drawings\AreaB\4973_03_M-104.dwg

PRINTED: 10/17/2023 @ 1:08PM



1 SECOND FLOOR - HVAC NEW WORK PLAN - AREA B
SCALE: 1/8"=1'-0"



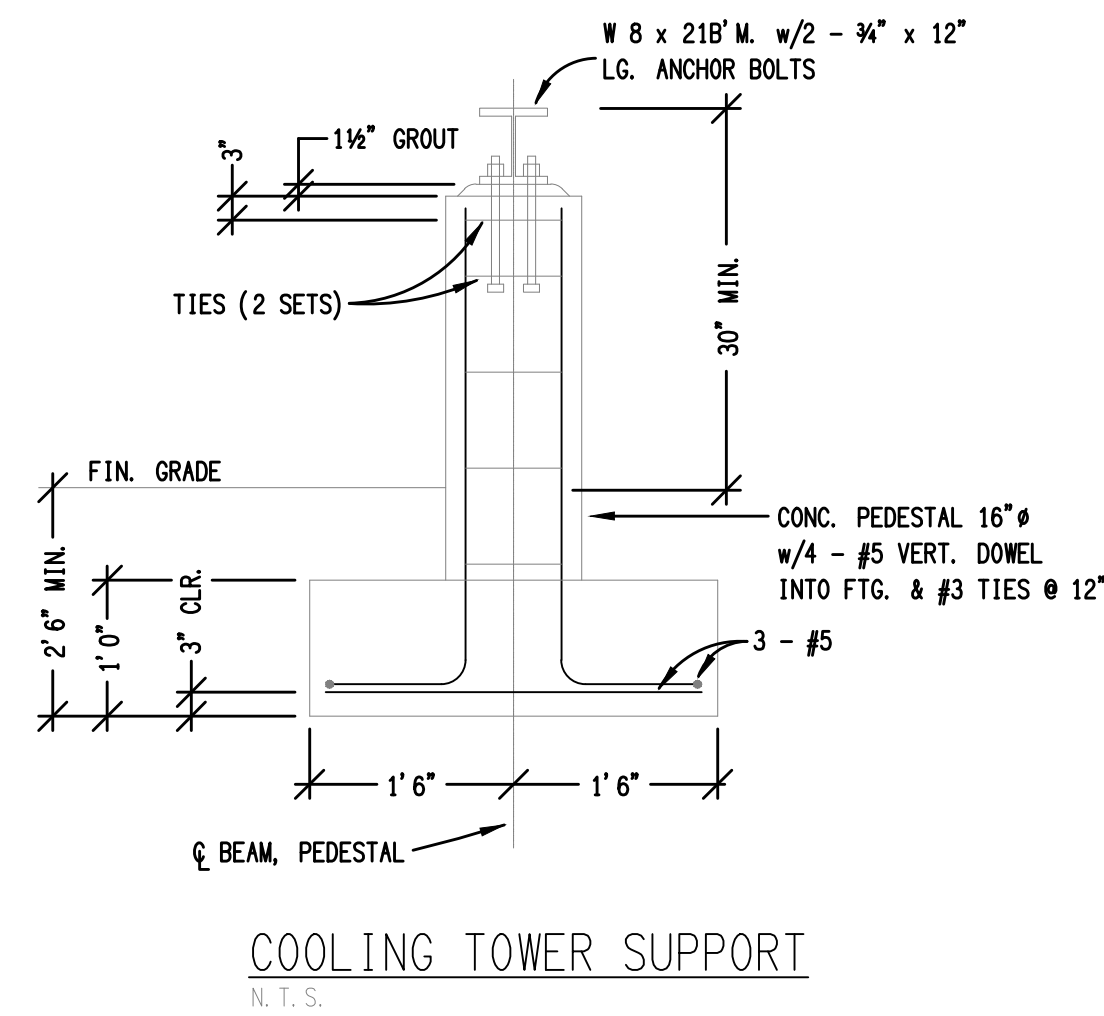
KEYPLAN

KEYNOTE:

1. FURNISH AND INSTALL NEW DEDICATED OUTSIDE AIR MAKEUP AIR UNIT ON ROOF ABOVE EXISTING ROOF CURB SHALL REMAIN AND A ROOF CURB ADAPTER SHALL BE ADDED IF NEEDED. CONNECT DUCT FROM NEW UNIT DOWN TO EXISTING DUCTWORK BELOW.
2. FURNISH AND INSTALL NEW STAND ALONE RECTANGULAR WATER SOURCE HEAT PUMP. INSTALL NEW HYDRONIC PIPING CONNECTIONS FROM MAINS TO UNIT. INSTALL NEW CONDENSATE PIPING. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
3. FURNISH AND INSTALL NEW THERMOSTAT AT THIS LOCATION. TYPICAL OF ALL SHOWN.

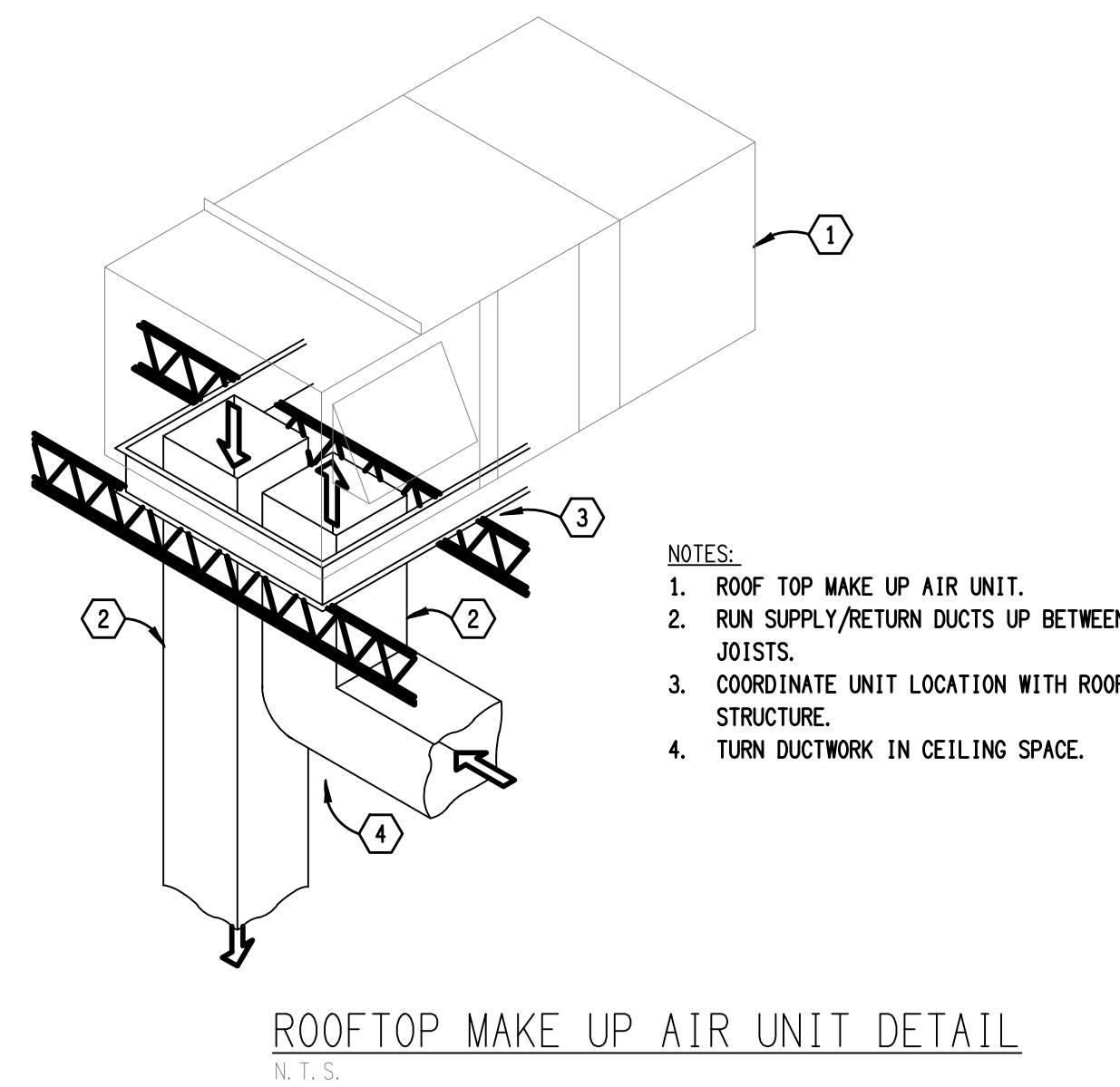
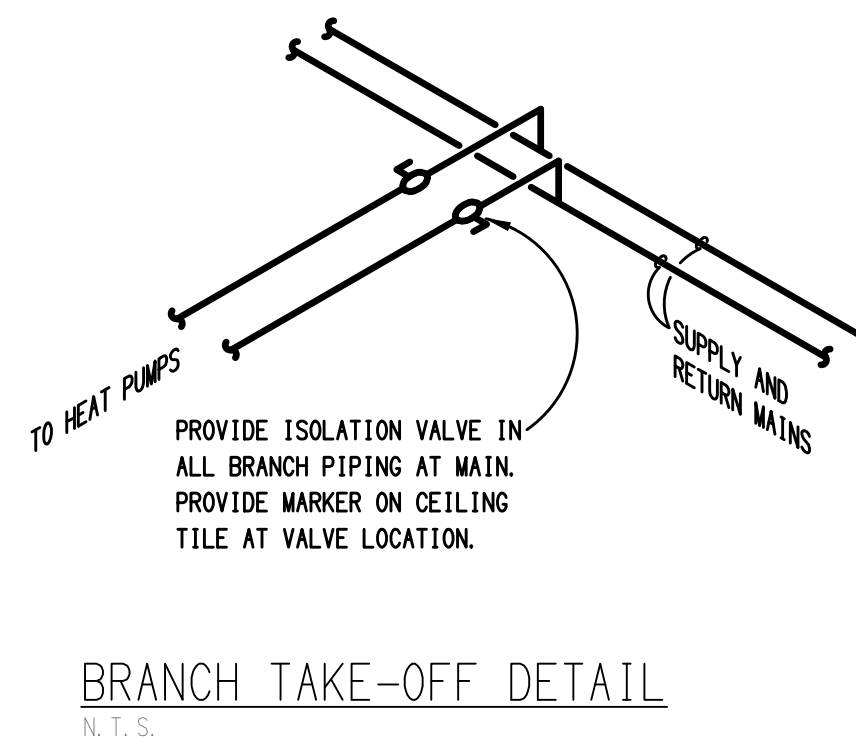
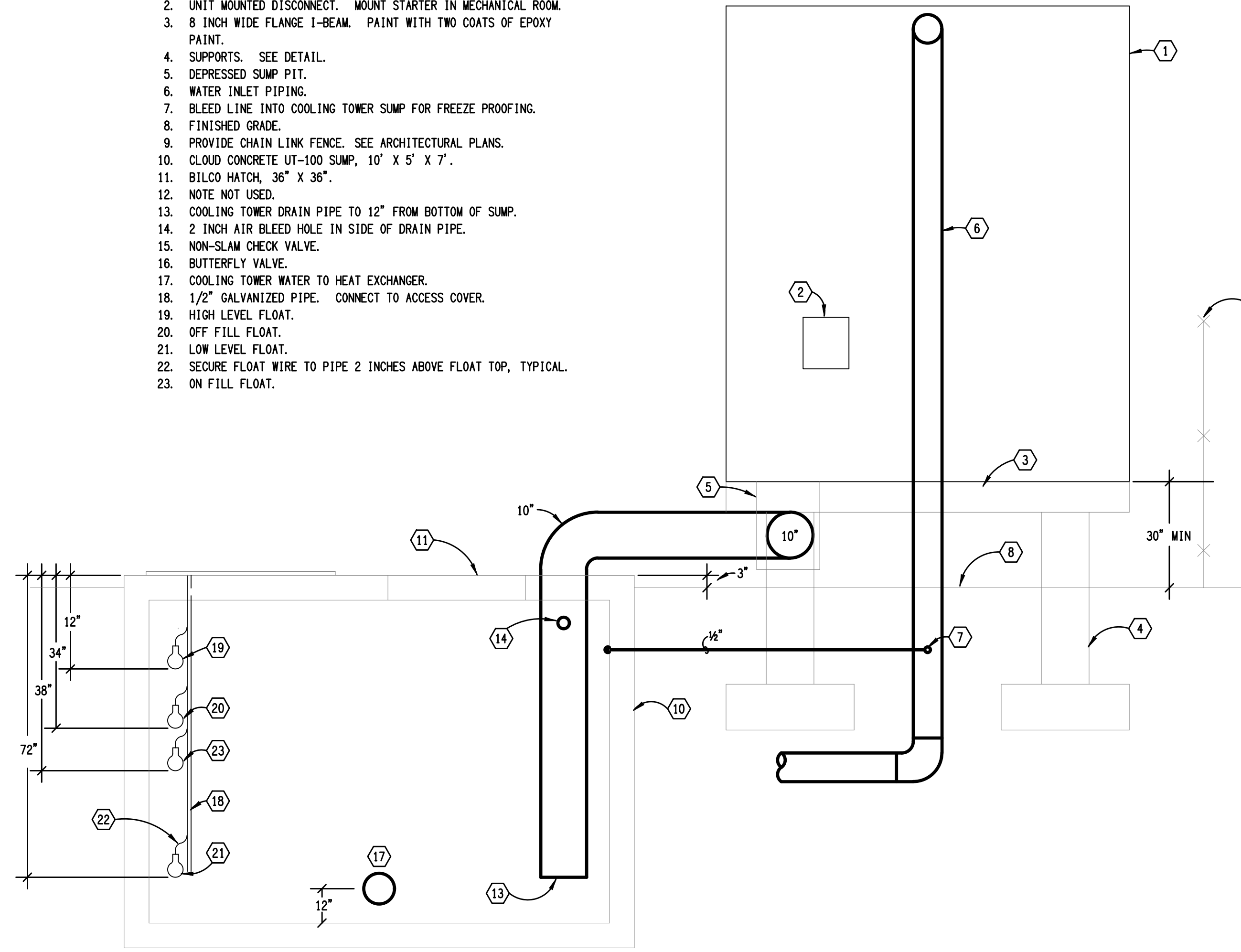
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<p>SECOND FLOOR</p> <p>HVAC NEW WORK PLAN - AREA B</p> <p>LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT</p> <p>350 NORTH LIMESTONE, LEXINGTON, KY</p>	
<p>DESIGNED BY</p> <p>DATE</p>	<p>CMF</p> <p>BY</p> <p>DATE</p>
<p>REVISIONS</p> <p>NO. DESCRIPTION</p>	<p>CMF</p> <p>BY</p> <p>DATE</p>
<p>FOR CHECK</p> <p>DATE</p>	<p>CMF</p> <p>BY</p> <p>DATE</p>
<p>DATE</p> <p>SCALE</p> <p>SHEET NO.</p>	<p>CVS</p> <p>BY</p> <p>DATE</p>
<p>M-104</p>	

CONSTRUCTION DOCUMENTS

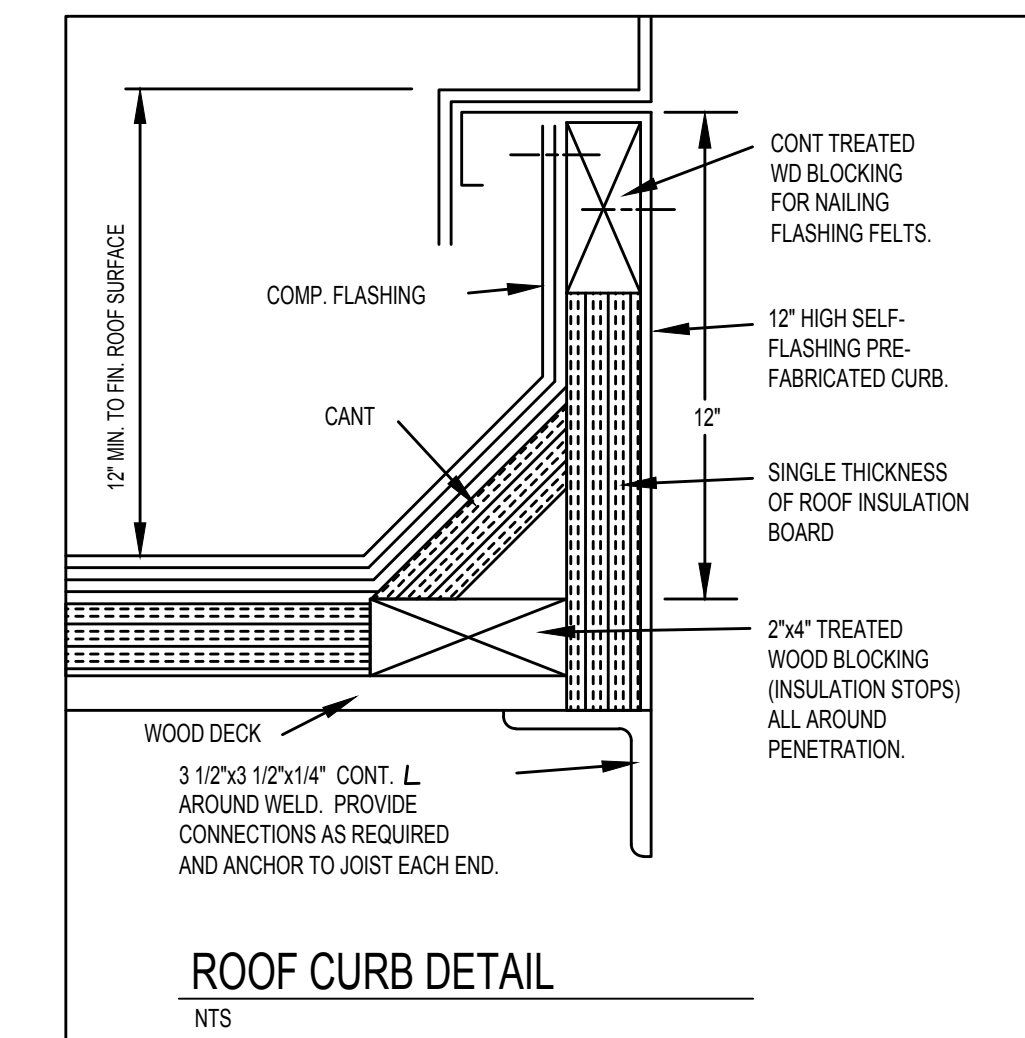


COOLING TOWER NOTES:

1. COOLING TOWER.
2. UNIT MOUNTED DISCONNECT. MOUNT STARTER IN MECHANICAL ROOM.
3. 8 INCH WIDE FLANGE I-BEAM. PAINT WITH TWO COATS OF EPOXY PAINT.
4. SUPPORTS. SEE DETAIL.
5. DEPRESSED SUMP PIT.
6. WATER INLET PIPING.
7. BLEED LINE INTO COOLING TOWER SUMP FOR FREEZE PROOFING.
8. FINISHED GRADE.
9. PROVIDE CHAIN LINK FENCE. SEE ARCHITECTURAL PLANS.
10. CLOUD CONCRETE UT-100 SUMP, 10' X 5' X 7'.
11. BILOO HATCH, 36" X 36".
12. NOTE NOT USED.
13. COOLING TOWER DRAIN PIPE TO 12" FROM BOTTOM OF SUMP.
14. 2 INCH AIR BLEED HOLE IN SIDE OF DRAIN PIPE.
15. NON-SLAM CHECK VALVE.
16. BUTTERFLY VALVE.
17. COOLING TOWER WATER TO HEAT EXCHANGER.
18. 1/2" GALVANIZED PIPE. CONNECT TO ACCESS COVER.
19. HIGH LEVEL FLOAT.
20. OFF FILL FLOAT.
21. LOW LEVEL FLOAT.
22. SECURE FLOAT WIRE TO PIPE 2 INCHES ABOVE FLOAT TOP, TYPICAL.
23. ON FILL FLOAT.



- NOTES:**
1. ROOF TOP MAKE UP AIR UNIT.
 2. RUN SUPPLY/RETURN DUCTS UP BETWEEN JOISTS.
 3. COORDINATE UNIT LOCATION WITH ROOF STRUCTURE.
 4. TURN DUCTWORK IN CEILING SPACE.



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MECHANICAL DETAILS
LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
350 NORTH LIMESTONE, LEXINGTON, KY

DESIGNED BY: STAFF
DRAWN BY: STAFF
REVIEWED BY: CVS
APPROVED BY: CVS

NO. DATE

REVISIONS DESCRIPTION

DATE

NO. DESCRIPTION

DATE

NO. DESCRIPTION

DATE

NO. DESCRIPTION

DATE

DATE: OCTOBER 2023

SCALE: NOT TO SCALE

SHEET NO. M-501

DATE: OCTOBER 2023

SCALE: NOT TO SCALE

SHEET NO. M-501

WATER-SOURCE HEAT PUMP UNIT SCHEDULE

MARK (HP-#)	MANUFACTURER	MODEL	NOMINAL TONNAGE	CAPACITY MODULATION	ESP (IN H2O)	AIRFLOW (CFM)	FLUID FLOW (GPM)	WPD (FT H2O)	COOLING CAPACITIES					HEATING CAPACITIES					ELECTRICAL				REMARKS	
									EAT		TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	HEAT OF REJECTION (BTU/HR)	EER AT AHRI	EWT (°F)	EDB (°F)	TOTAL (BTU/HR)	HEAT OF ABSORPTION (BTU/HR)	COP AT AHRI	V/Ø/Hz	TOTAL UNIT FLA	MCA		MOCP
									EWT (°F)	EDB (°F)														
HP-24	AIREDALE	SMW24F	2	FULL	0.5	800	6	-	68	68	24000	19000	30000	14.5	86	80/67	26000	24000	4.7	460/60/3	6.2	7.2	15	XX
HP-30	AIREDALE	SMW30F	2.5	FULL	0.50	950	8.00	-	68.0	68.0	29500	21000	36600	14.5	86.0	80/67	31300	23900	4.7	460/60/3	6.2	7.2	15	XX
HP-36	AIREDALE	SMW36F	3	FULL	0.50	1200	10.00	-	68.0	68.0	36000	31000	42000	14.5	86.0	80/67	33000	29000	4.7	460/60/3	6.2	7.2	15	XX

Remarks:
1. STAND ALONE RECTANGULAR CLASSROOM UNIT
2. VERTICAL UNIT
3. PROVIDE WITH NOISE REDUCTION KIT
4. PROVIDE UNIT CONNECTION SIZE HOSE KITS
5. PROVIDE WITH DISCONNECT SWITCH ASSEMBLY
6. PROVIDE VIBRATION ISOLATORS AS REQUIRED
7. PROVIDE WITH HOT GAS REHEAT
8. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS
9. PROVIDE WITH BACNET COMPATIBLE CARD
10. PROVIDE WITH PHASE FAILURE RELAY
11. PROVIDE WITH CONDENSATE PAN FLOAT SWITCH

SELECTIONS BASED ON THE FOLLOWING CONDITIONS: COOLING FULL CAPACITY 80 EDB / 67 EWB, 77 EWT (PART LOAD MODULATION 70 EDB / 59 EWB, 60 EWT). HEATING FULL CAPACITY 68 EDB, 32 EWT (PART LOAD MODULATION 70 EDB, 75 EWT). ANTIFREEZE: 20% EXCENDOSOL CONCENTRATION BY VOLUME.
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: BARD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PACKAGED DEDICATED OUTSIDE AIR ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	EER / SEER	SUPPLY FAN			LAT		COOLING				COMPRESSOR			AUXILIARY ELECTRIC HEATING			HEAT RECOVERY				ELECTRICAL			REMARKS
				AIRFLOW (CFM)	TSP (in-PO)	MOTOR SIZE (HP)	LDB (F)	LWB (F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	STAGES	QTY	REFRIGERANT	TYPE	SIZE	TOTAL CAPACITY (MBH)	EDB/LDB	WINTER SUPPLY LDB/LWB F	WINTER RETURN EDB/EWB F	SUMMER SUPPLY LDB/LWB F	SUMMER RETURN EDB/EWB F	V/Ø/Hz	MCA	MOCP		
																									WATER	
MAU-1	DAIKIN	MPS040F	10.3	10000	1.5	20	54	53.4	472.7	296	Multiple	4	410A	Electric	90KW	307.2	48.2/75.5	48.2/42.4	70/57	81.1/68.6	75/63	460/3/60	161.8	175	ALL	
MAU-2	DAIKIN	MPS040F	10.3	12000	1.5	20	54	53.4	472.7	296	Multiple	4	410A	Electric	90KW	307.2	48.2/75.5	48.2/42.4	70/57	81.1/68.6	75/63	460/3/60	161.8	175	ALL	

REMARKS:
1. COOLING DESIGN CONDITIONS: EAT 75F DB / 62F WB AND 95F DB / 78F WB AMBIENT. HEATING AMBIENT DESIGN CONDITIONS BASED ON 5F DB / 11. FACTORY MOUNTED DDC CONTROLLERS WITH BACNET INTERFACE.
2. 100% OUTSIDE AIR UNIT
3. PROVIDE ROOF TOP UNIT WITH ROOF CURB ADAPTOR
4. WITH AUXILIARY ELECTRIC HEAT THAT CAN RUN SIMULTANEOUSLY WITH COMPRESSORS
5. SINGLE POINT POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH AND 115V GFI CONVENIENCE OUTLET.
6. ENERGY RECOVERY WHEEL
7. FAN CYCLING CONTROL OPTION
8. HIGH AND LOW PRESSURE SWITCH
9. COMPRESSOR SHORT CYCLE TIMER
10. PROVIDE WITH HAIL GUARD.
12. SEE SPECIFICATIONS FOR MORE INFORMATION
13. MODULAR HOT GAS REHEAT
14. VFD'S ON SUPPLY AND RETURN FANS.
15. PROVIDE WITH PHASE PROTECTION
16. PROVIDE WITH SMOKE DETECTOR SHUT DOWN
17. PROVIDE UNIT WITH 2", 30% EFFICIENCY PRIMARY FILTERS.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CARRIER AND GREENHECK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

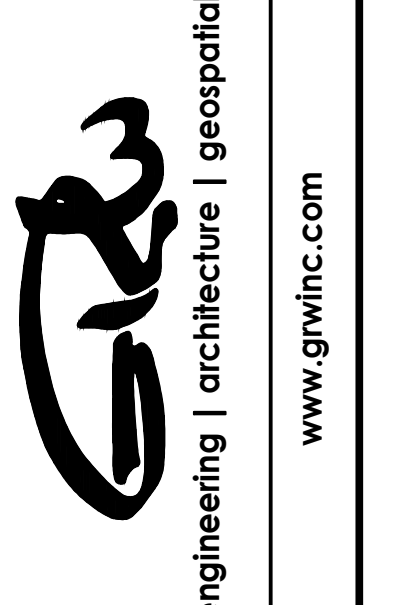
COOLING TOWER SCHEDULE

TAG	MANUFACTURER	MODEL	WATER				FANS			ELECTRICAL			REMARKS
			EWT F	LWT F	FLOW GPM	WPD FT	QTY	TOTAL HP	V/Ø/Hz	MCA	MOCP		
CT-1	DELTA	FXT-216	95	85	650	10	1	7.5	480/3/60	-	-	ALL	

REMARKS:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS ON STEEL I-BEAMS.
2. PROVIDE WITH PACKAGE CONTROL PANEL WITH SINGLE POINT DISCONNECT SWITCH.
3. PROVIDE WITH BOTTM DISCHARGE FOR REMOTE SUMP OPERATION.
4. PROVIDE EACH FAN MOTOR WITH VFD.
5. PROVIDE VIBRATION CUT-OUT SWITCH WITH LOCAL RESET.
6. PROVIDE INTERNAL WALKWAY WITH LADDER
7. PROVIDE EXTERNAL LADDER WITH EXTERNAL MAINTENANCE PLATFORM AND GUARD RAIL
8. PROVIDE DISCHARGE HOOD WITH INSULATED POSITIVE CLOSE-OFF DAMPERS (PCD)
9. TOWER CONTROL PANEL SHALL BE PROVIDED BY COOLING TOWER MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR.
CONTROLS SHALL BE COMPATIBLE WITH BUILDING AUTOMATION SYSTEM.
10. ELECTRICAL AND CONTROLS CONTRACTORS SHALL MAKE COOLING TOWER CONTROL PANEL CONNECTIONS.
MECHANICAL CONTRACTOR SHALL PROVIDE/INSTALL WIRING BETWEEN COOLING TOWER CONTROL PANEL AND COMPONENTS
11. LOW SOUND FAN, CTI CERTIFIED, STAINLESS STEEL CONSTRUCTION, MECHANICAL FLOAT ASSEMBLY,
12. REFER TO CONTROLS SPECIFICATIONS FOR COOLING TOWER CONTROL SEQUENCE.
13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE BAC AND MARLEY. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CLIENT PROJECT NO.
CLIENT PROJECT NO.
CLIENT PROJECT NO.



MECHANICAL SCHEDULES

LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
350 NORTH LIMESTONE, LEXINGTON, KY

NO	REVISIONS	DATE	BY	APPROVED
	DESIGN		STAFF	CVS
	DRAWING		STAFF	CVS
	REVISION		CVS	CVS
	APPROVED		CVS	CVS

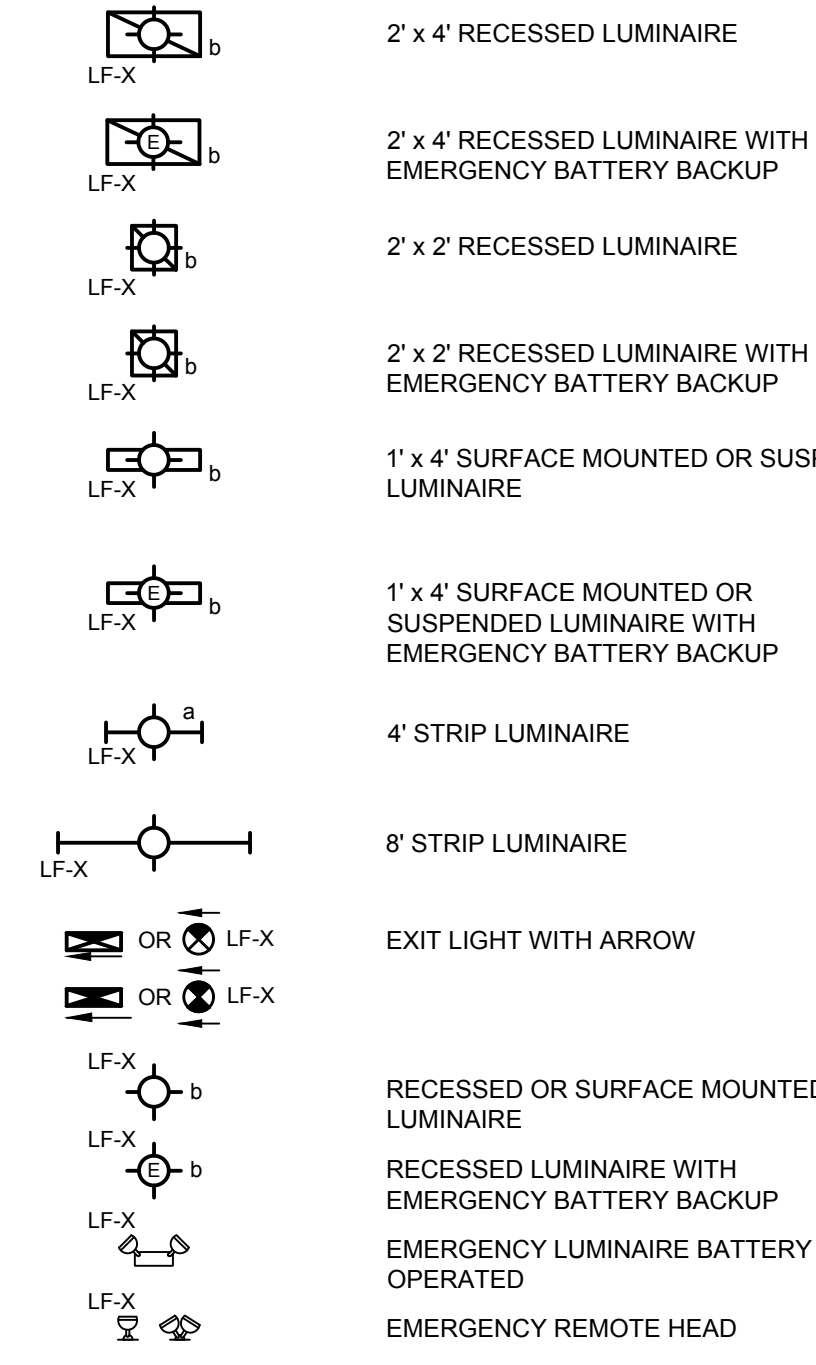
DATE: OCTOBER 2023
SCALE: NOT TO SCALE
SHEET NO: M-601

INTERIOR LIGHTING

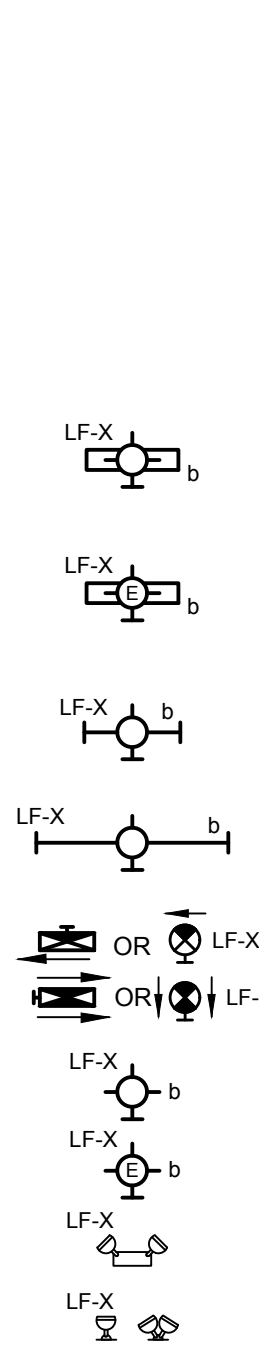
SUBSCRIPTS INDICATE THE FOLLOWING:

- LF-X = INDICATES FIXTURE TYPE
E = INDICATES EMERGENCY BATTERY BACKUP
a = DENOTES SINGLE SWITCH DESIGNATION
ab = DENOTES DUAL SWITCH DESIGNATION

CEILING MTD



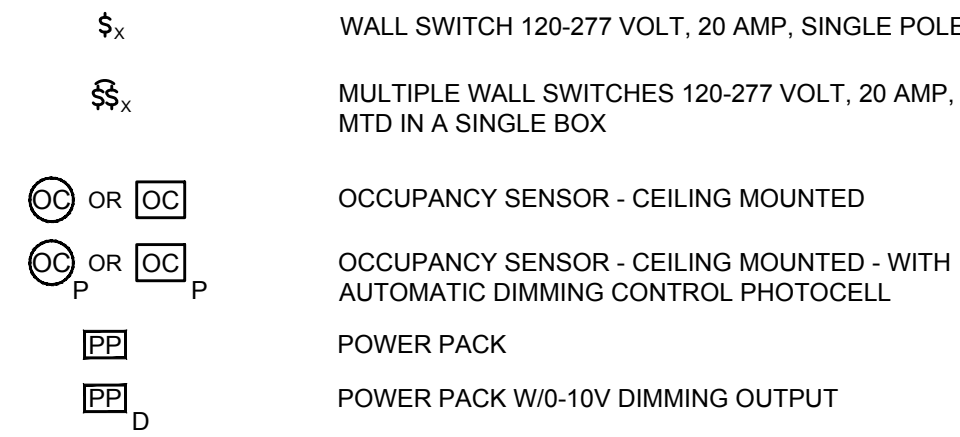
WALL MTD



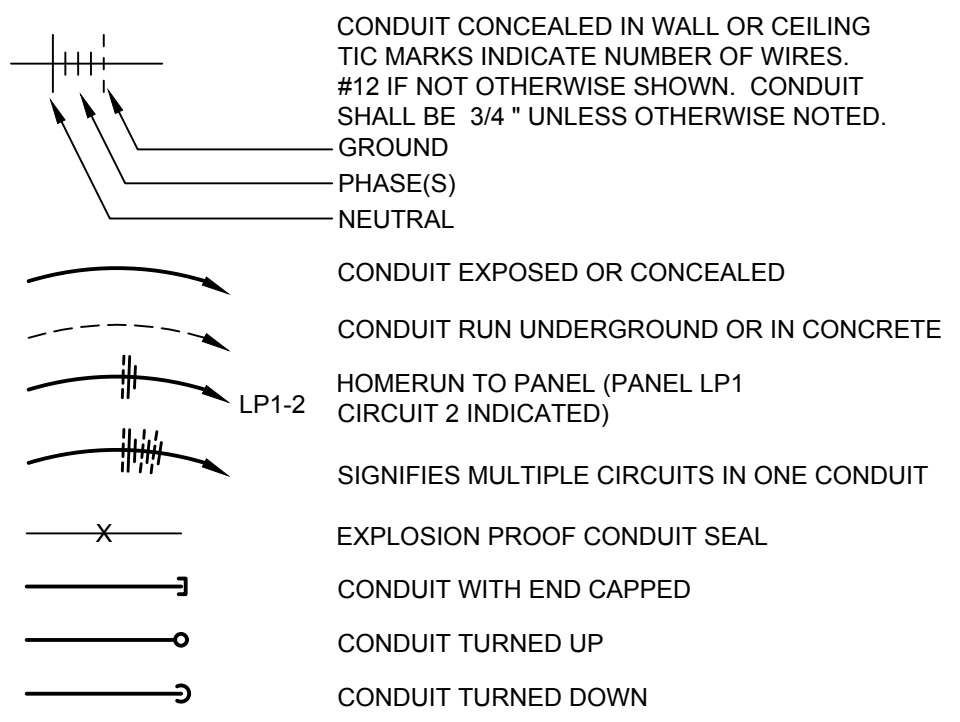
INTERIOR LIGHTING CONTROLS

SUBSCRIPTS INDICATE THE FOLLOWING:

- a = SWITCH DESIGNATION
D = DIMMER
2 = DOUBLE-POLE
3 = THREE-WAY
4 = FOUR-WAY
K = KEY-OPERATED
P = PILOT LIGHT
T = TIMER
L = LOW-VOLTAGE
M = MOTOR RATED WITH OVERLOAD PROTECTION
IG = ISOLATED GROUND
EXP = EXPLOSION PROOF
WP = WEATHERPROOF
DR = DOOR SWITCH



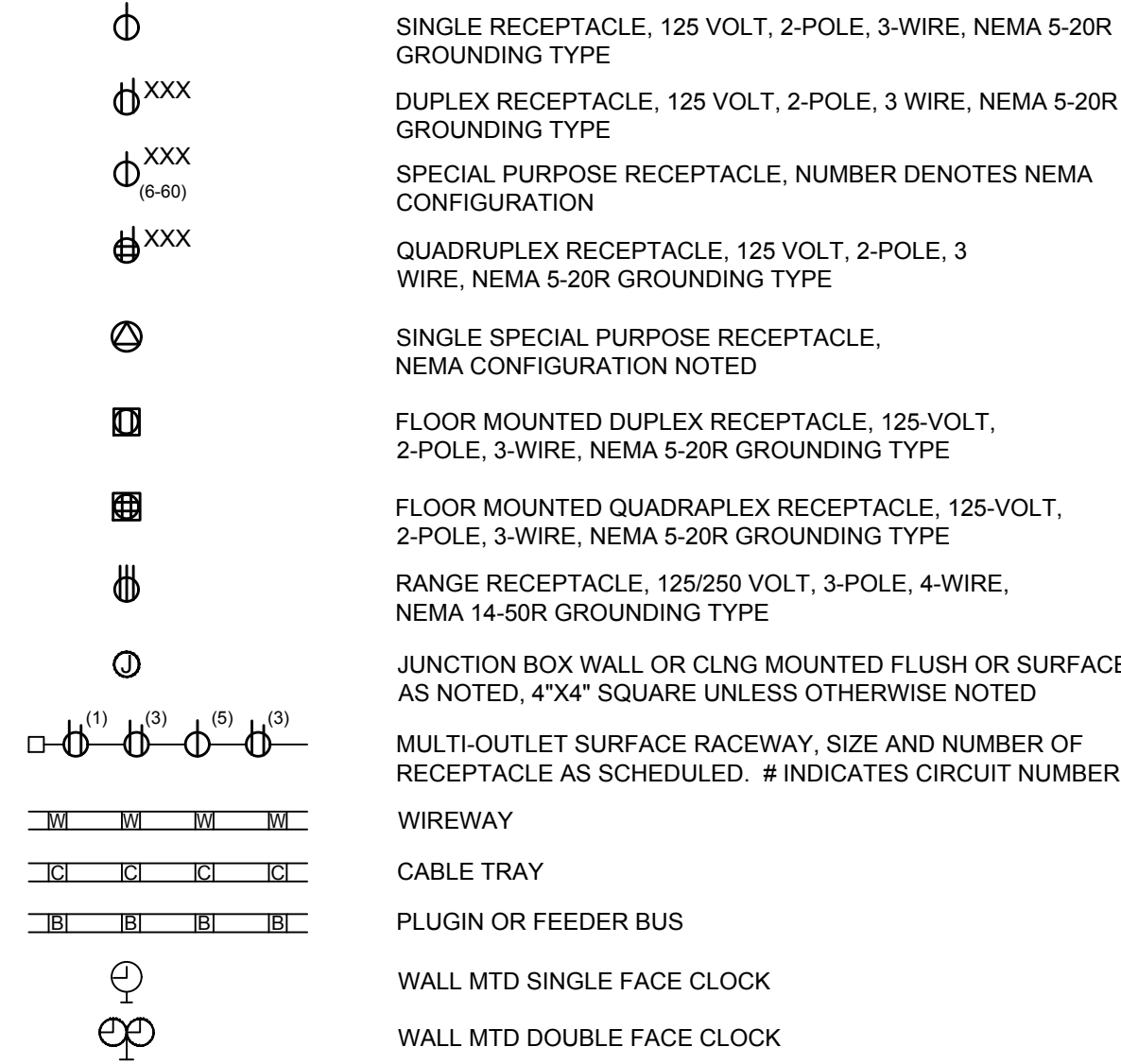
INTERIOR CONDUIT & WIRE



POWER WIRING DEVICES

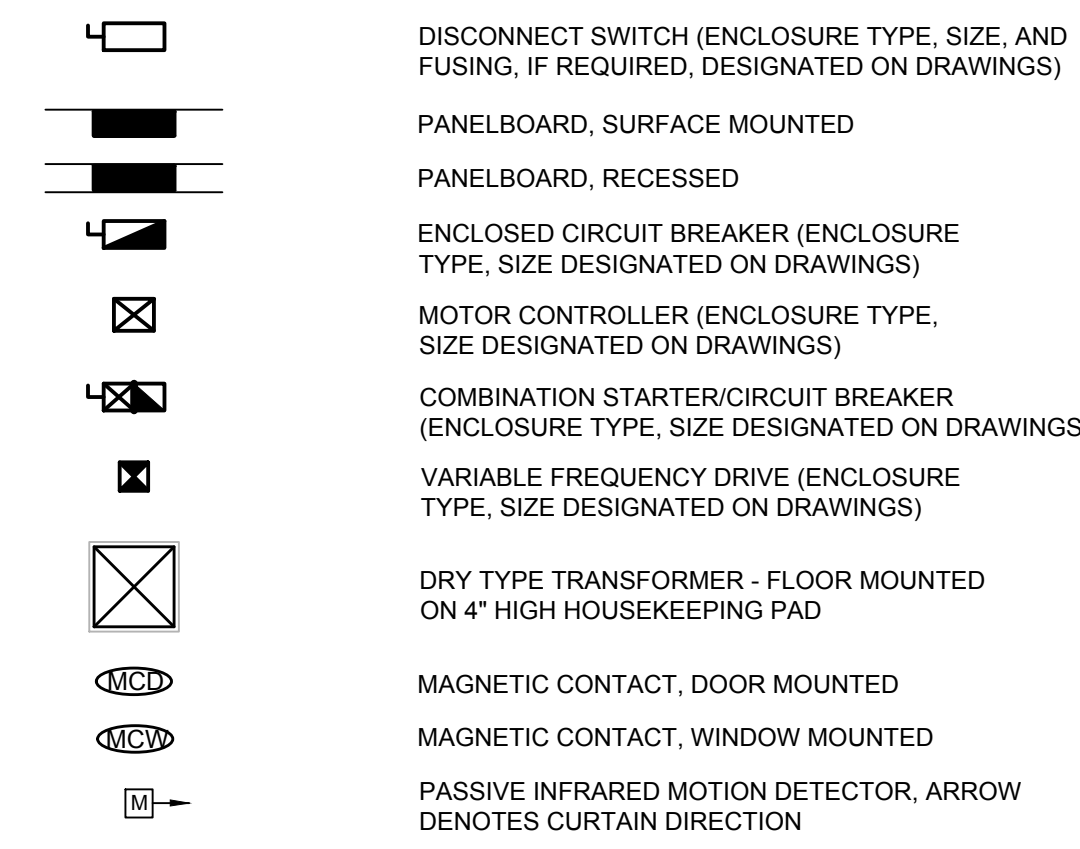
SUBSCRIPTS INDICATE THE FOLLOWING:

- WP = WEATHER PROOF, IN-USE COVER
WR = WEATHER RESISTANT WIRING DEVICE
GFCI = GROUND FAULT CIRCUIT INTERRUPTER
GF-BF = BLANK FACE GROUND FAULT INTERRUPTER
IG = ISOLATED GROUND
EXP = EXPLOSION PROOF
ACT = ABOVE COUNTER TOP
TR = TAMPER RESISTANT
AFCI = ARC FAULT INTERRUPTER
TVSS = TRANSIENT VOLTAGE SURGE SUPPRESSOR



POWER DEVICES

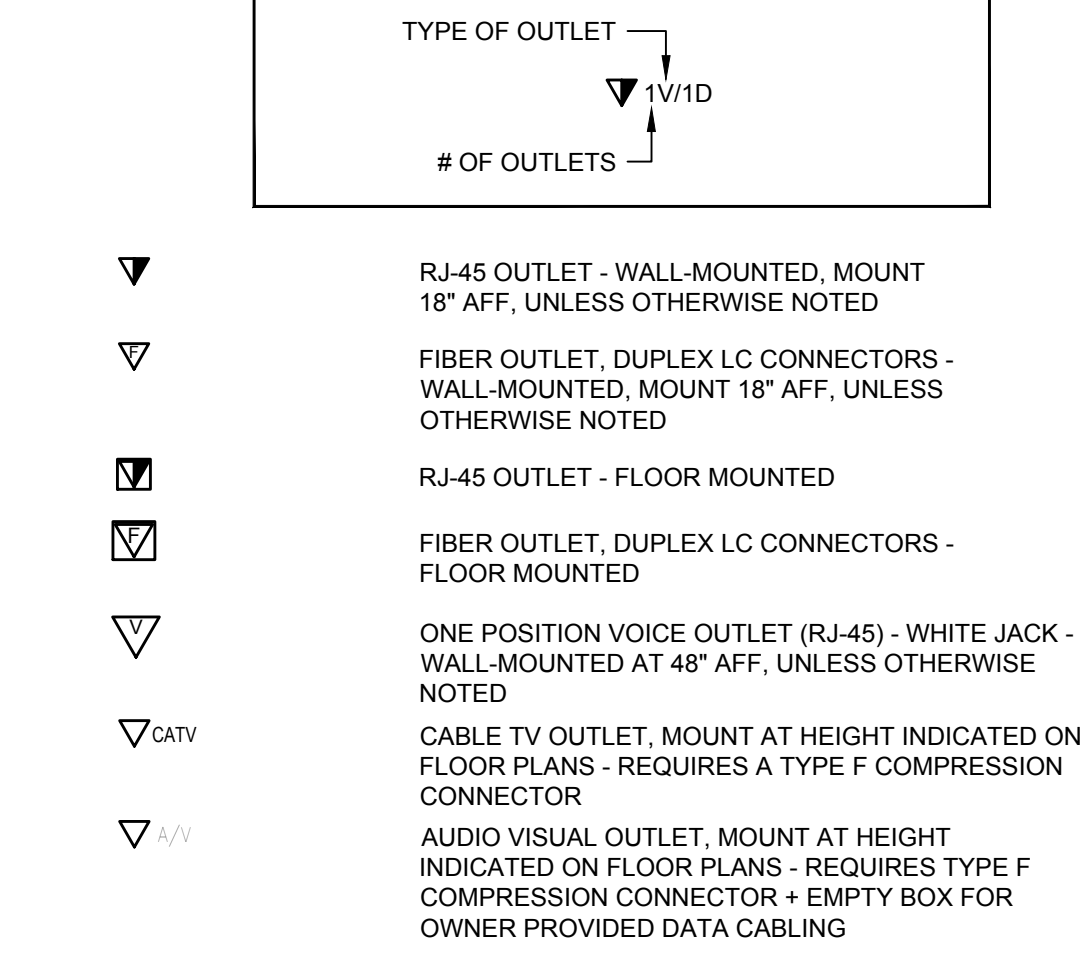
MOTOR CONNECTION (5 HP INDICATED)



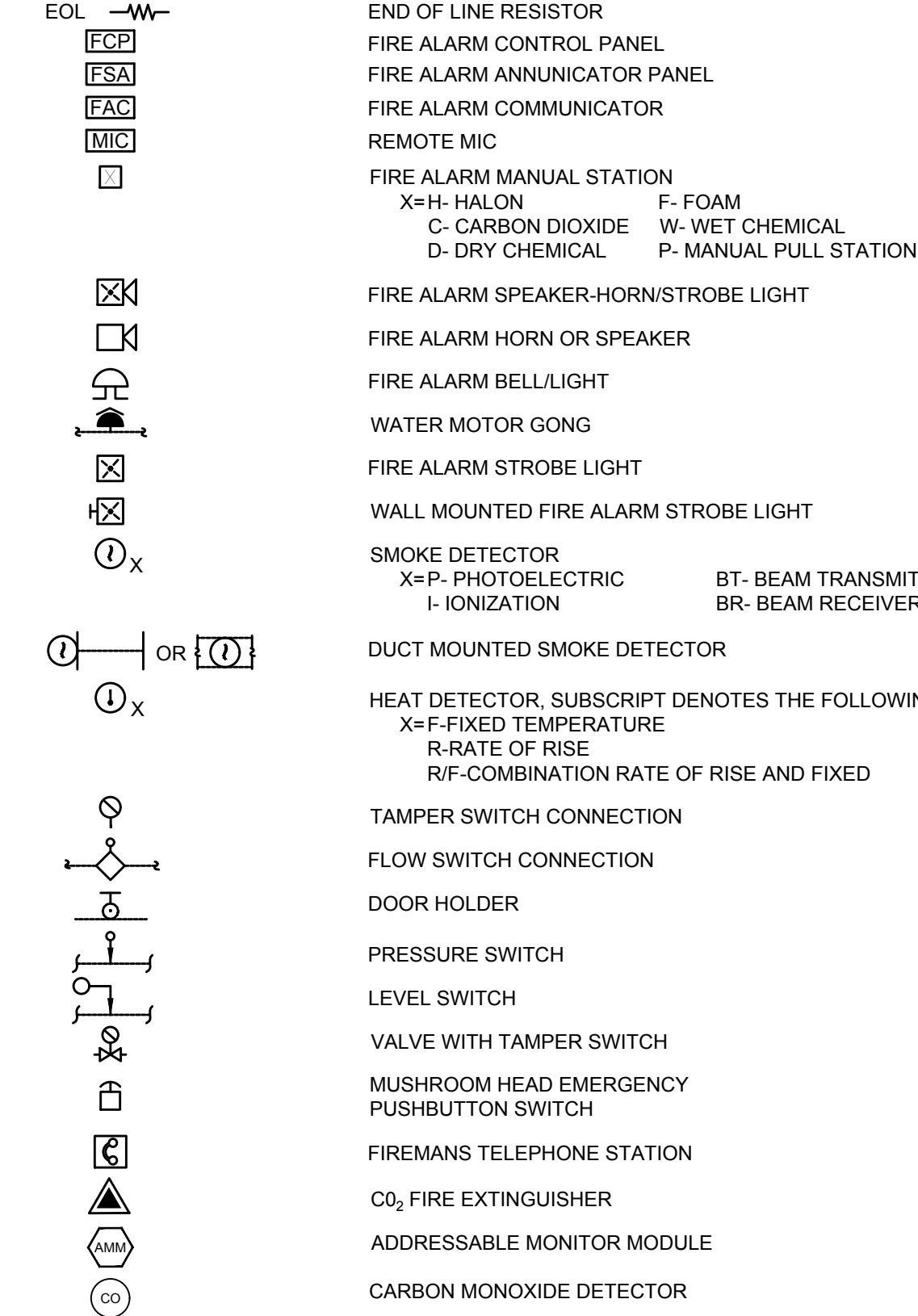
COMMUNICATION

SUBSCRIPTS INDICATE THE FOLLOWING:

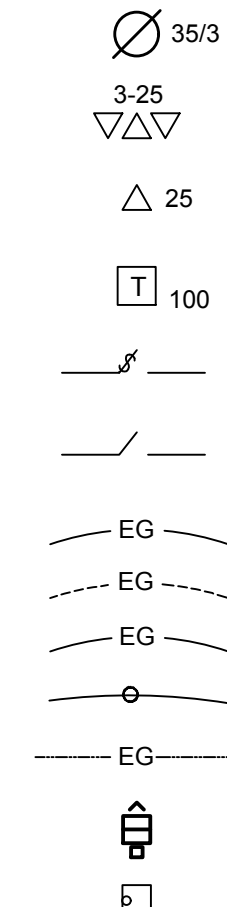
- V = VOICE OUTLET
D = DATA OUTLET



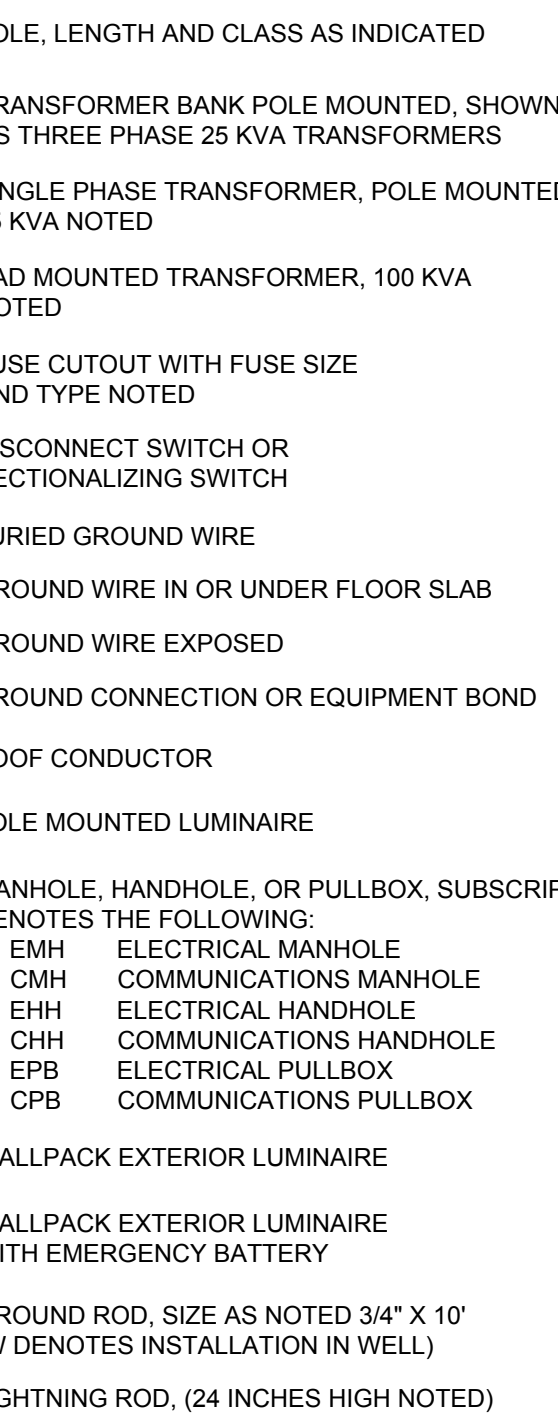
FIRE ALARM/SUPPRESSION SYSTEM DEVICES



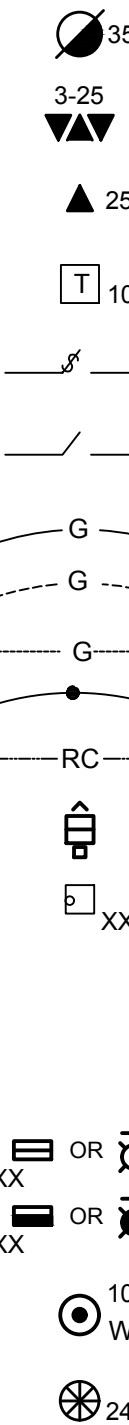
EXISTING



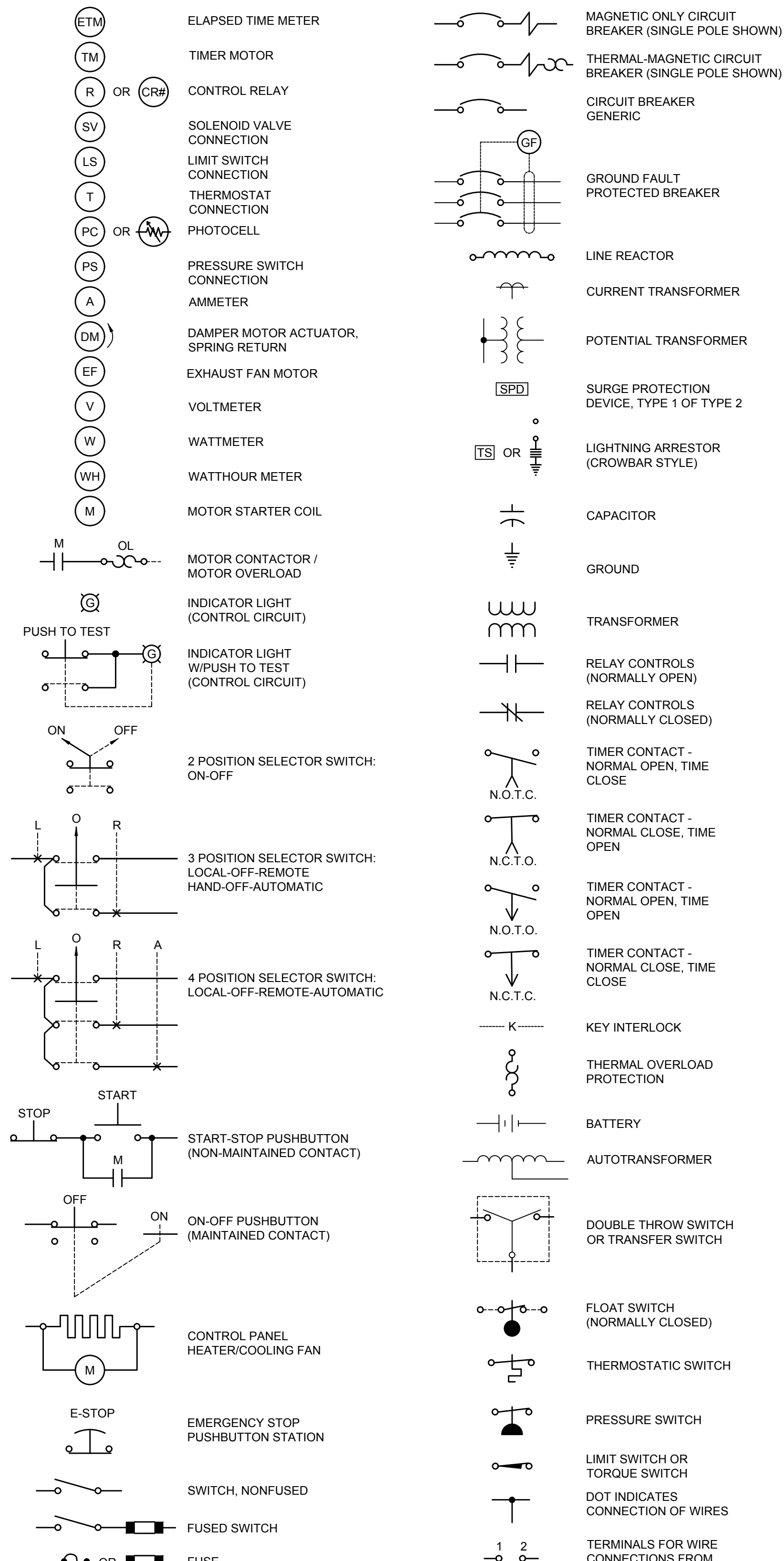
EXTERIOR



NEW



SINGLE LINE DIAGRAMS/CONTROLS



GENERAL NOTES:

- 1. THE MINIMUM STANDARD FOR ALL WORK SHALL BE THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE WITH THE 2018 IN STATE AMENDMENTS AND THE NATIONAL ELECTRICAL CODE (NEC).
2. ALL ELECTRICAL WORK SHALL BE PERFORMED BY AN IN-STATE LICENSED ELECTRICIAN.
3. ALL PERMITS NEEDED TO LEGALLY PERFORM THE ELECTRICAL WORK SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF WORK. COST OF PERMITTING IS BY THE CONTRACTOR.
4. AT COMPLETION OF THE WORK, A CERTIFICATE OF COMPLIANCE FROM THE LOCAL AHJ OVER THE ELECTRICAL WORK SHALL BE PROVIDED TO THE ENGINEER AND OWNER. COST OF ELECTRICAL INSPECTION IS BY THE CONTRACTOR.
5. ALL MATERIALS USED IN THE PROJECT GENERALLY SHALL BE NEW AND UNUSED, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL NEW MATERIALS SHALL BE LISTED BY UL OR OTHER ACCEPTABLE LISTING AGENCY, WHERE A LISTING EXISTS.
6. THE CONTRACTOR SHALL VISIT THE SITE(S) PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS AND EXISTING CONDITIONS.
7. FIRESTOP ALL NEW CONDUIT INSTALLED THROUGH EXISTING OR NEW FIRE RATED ASSEMBLIES.
8. SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR ACCEPTANCE PRIOR TO PURCHASE BY THE CONTRACTOR.
9. WHEN AN ITEM DEMOLISHED IS REMOVED, REMOVE ALL CONCRETE PADS, FASTENERS, CONDUIT AND WIRING. SCARIFY SURFACE AND RESTORE TO MATCH EXISTING SURROUNDING SURFACE, INCLUDING PAINTING TO MATCH.
10. ALL NEW WIRING SHALL BE ENCLOSED IN AN APPROVED RACEWAY SYSTEM. OPEN WIRING IS PROHIBITED.
11. CIRCUIT BREAKERS USED FOR HVAC EQUIPMENT LOADS SHALL BE HACR TYPE.
12. ENSURE DEDICATED ELECTRICAL SPACE IS PROVIDED ABOVE AND BELOW ELECTRICAL PANELS IN ACCORDANCE WITH NEC ARTICLE 110.26.
13. COORDINATE ALL MOTOR STARTERS, FEEDERS AND DISCONNECT SWITCHES FOR HVAC AND OTHER UTILIZATION EQUIPMENT ACTUALLY PROVIDED IN ACCEPTED SHOP DRAWINGS.
14. IN ORDER TO COMPLY WITH OSHA REQUIREMENTS, NO OPERATOR DEVICE OF ANY PANEL OR DISCONNECT OR MOTOR CONTROL SHALL BE HIGHER THAN 6'-6" AFF.
15. PROVIDE AN EXTERIOR RATED SERVICE RECEPTACLE WITHIN 25 FEET HORIZONTALLY OF ANY EXTERIOR OR ROOFTOP HVAC OUTDOOR UNITS (HEATING OR AIR CONDITIONING ONLY).

Construction documents header and footer including project name, sheet number (E-001), and revision table.

ELECTRICAL SPECIFICATIONS

GENERAL PROJECT NOTES AND SPECIFICATIONS:

- THE MINIMUM STANDARD FOR ALL WORK SHALL BE THE LATEST EDITION OF THE KENTUCKY BUILDING CODE (KBC) AND THE NATIONAL ELECTRICAL CODE (NEC).
- ALL ELECTRICAL WORK SHALL BE PERFORMED BY A KY STATE LICENSED ELECTRICIANS.
- ALL PERMITS NEEDED TO LEGALLY PERFORM THE ELECTRICAL WORK SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF WORK. COST OF PERMITTING IS BY THE CONTRACTOR.
- AT COMPLETION OF THE WORK, A CERTIFICATE OF COMPLIANCE FROM THE LOCAL AHJ OVER THE ELECTRICAL WORK SHALL BE PROVIDED TO THE ENGINEER AND OWNER. COST OF ELECTRICAL INSPECTION IS BY THE CONTRACTOR.
- ALL MATERIALS USED ON THE PROJECT SHALL BE NEW AND UNUSED, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL NEW MATERIALS SHALL BE LISTED BY UL OR OTHER ACCEPTABLE LISTING AGENCY, WHERE A LISTING EXISTS.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH THE PROJECT.
- FIRESTOP ALL NEW CONDUITS INSTALLED THROUGH EXISTING OR NEW FIRE RATED ASSEMBLIES.
- SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR ACCEPTANCE PRIOR TO PURCHASE BY THE CONTRACTOR.
- WHEN AN ITEM DEMOLISHED IS REMOVED, REMOVE ALL CONCRETE PADS, FASTENERS, HANGERS, HANGER RODS, CONDUIT AND WIRING. SCARIFY SURFACE AND RESTORE TO MATCH EXISTING SURROUNDING SURFACE, INCLUDING PAINTING TO MATCH.
- ALL NEW WIRING SHALL BE ENCLOSED IN AN APPROVED RACEWAY SYSTEM. OPEN WIRING IS PROHIBITED.
- CIRCUIT BREAKERS USED FOR HVAC EQUIPMENT LOADS SHALL BE HACR TYPE.
- ENSURE DEDICATED ELECTRICAL SPACE IS PROVIDED FOR ELECTRICAL PANELS IN ACCORDANCE WITH NEC ARTICLE 110.26.
- COORDINATE ALL MOTOR STARTERS, FEEDERS AND DISCONNECT SWITCHES FOR HVAC AND OTHER UTILIZATION EQUIPMENT ACTUALLY PROVIDED IN ACCEPTED SHOP DRAWINGS.
- IN ORDER TO COMPLY WITH OSHA REQUIREMENTS, NO OPERATOR DEVICE OF ANY PANEL OR DISCONNECT OR MOTOR CONTROL SHALL BE HIGHER THAN 8'-0" ABOVE FINISHED FLOOR.
- CONCEAL CONDUIT/RACEWAYS WHERE POSSIBLE. WHERE ELECTRICAL OR COMMUNICATIONS DEVICES ARE LOCATED BELOW CEILINGS AND ON EXISTING BLOCK WALLS, THE ELECTRICAL CONTRACTOR HAS THE OPTION OF UTILIZING SPECIFIED SURFACE MOUNTED RACEWAY OR CUTTING AN OUTLET BOX INTO THE EXISTING WALLS AND FISHING DOWN IN THE EXISTING WALL TO THE BOX. REFER TO ELECTRICAL SPECIFICATIONS BELOW FOR RACEWAY REQUIREMENTS. PROVIDE COVER, SUPPORTS, FITTINGS, AND BACK BOXES FOR COMPLETE INSTALLATION.

- CONNECT ALL MOTORS AND CONTROLS. INSTALL THE OPERATING EQUIPMENT THAT WILL COME WITH THE EQUIPMENT.
- THE FOLLOWING OWNER SPECIFICATIONS MUST ALSO BE ADHERED TO ON THIS PROJECT.

SECTION 260500.50 - BASIC ELECTRICAL MATERIALS AND METHODS

- GENERAL
 - PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION AND COMPLETION OF THE ELECTRICAL WORK.
 - DO THE WORK IN A WORKMANLIKE MANNER BY PERSONS EXPERIENCED AND SKILLED IN THE TRADE.
- CODES, PERMITS AND FEES
 - THE TERM "NEC" AS USED HEREIN REFERS TO CURRENT APPLICABLE NATIONAL, STATE AND LOCAL CODES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SUCH CODES.
 - THE CONTRACTOR SHALL PAY FOR REQUIRED PERMITS AND FEES.
- IDENTIFICATION
 - IDENTIFY NEW STARTERS, DISCONNECT SWITCHES, PANELBOARDS, TRANSFORMERS, PULL BOXES, AND TIME SWITCHES BY MEANS OF ENGRAVED PLASTIC NAMEPLATE.

SECTION 260519 - CONDUCTORS AND CABLES

- CONDUCTORS FOR BRANCH CIRCUITS AND FEEDERS TO DISTRIBUTION CENTERS AND SERVICE ENTRANCE SHALL BE COPPER. INSULATION FOR #8 AND SMALLER SHALL BE TYPE THHN OR THWN AND TYPE THW FOR LARGER. MINIMUM SIZE WIRE FOR BRANCH CIRCUITS #12.
- WIRING SHALL BE PROVIDED IN CONDUIT AS REQUIRED BY THE NEC. MINIMUM SIZE 1/2 INCH DIAMETER EXCEPT FINAL CONNECTION WHERE MATING TO A DEVICE THAT HAS 1/2 INCH CONDUIT ENTRY MAY BE REDUCED TO 1/2 INCH DIAMETER. FINAL CONNECTION TO A DEVICE SUBJECT TO VIBRATION OR DESIGNED TO MOVE OR SWIVEL SHALL BE BY FLEXIBLE CONDUIT.

SECTION 260533 - RACEWAYS AND BOXES

- OUTLET, JUNCTION AND PULL BOXES SHALL BE PROVIDED AS REQUIRED BY NEC AND AS REQUIRED TO PROVIDE AN ADAPTABLE WIRING SYSTEM.
- OUTLET BOXES SHALL BE OF SIZE AND TYPE SUITABLE FOR THEIR USE ACCORDING TO CODE. THEY SHALL BE OF STEEL IN FIRE-RATED WALLS AND CAST ALLOY WHERE EXPOSED TO THE WEATHER.
- INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT FITTINGS SHALL BE COMPRESSION TYPE.

- EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL (GRS).
- FINAL CONNECTIONS TO MOTORS SHALL BE LIQUIDTIGHT FLEXIBLE TYPE.
- THE FINAL SECTION OF CONDUIT CONNECTING EACH MOTOR OR PIECE OF UTILIZATION EQUIPMENT SUBJECT TO VIBRATION SHALL BE OF THE FLEXIBLE TYPE. LIQUIDTIGHT TYPE SHALL BE USED IN ALL OUTDOOR OR WET LOCATIONS. FLEXIBLE CONDUIT USED IN MECHANICAL ROOMS SHALL BE LIQUID TIGHT.

SECTION 262416 - PANELBOARDS

- CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE, QUICK-BREAK, AND MINIMUM OF 22,000 RMS AMPERES SYMMETRICAL INTERRUPTING CAPACITY. MULTI-POLE BREAKERS SHALL HAVE A COMMON TRIP.
- CIRCUIT BREAKER MANUFACTURER SHALL MATCH EXISTING EQUIPMENT WHERE BEING INSTALLED.

SECTION 262816 - ENCLOSED SWITCHES

- SAFETY SWITCHES SHALL BE HEAVY DUTY, HORSEPOWER RATED. MOTOR DISCONNECT SWITCHES SHALL BE NON-FUSED.

SECTION 16721 - FIRE ALARM SYSTEM

- GENERAL
 - MODIFY EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH CURRENT, APPLICABLE NATIONAL, STATE AND LOCAL CODES AND ADA. DETAILS NOT SHOWN ON CONTRACT DRAWINGS SHALL BE AS ADVISED BY THE FIRE ALARM SYSTEM CONTRACTOR. ALL MODIFICATIONS SHALL BE PERFORMED BY THE FACTORY AUTHORIZED DISTRIBUTOR OF THE EXISTING SYSTEM.
 - THE SYSTEM SUPPLIER SHALL DEMONSTRATE FULL SYSTEM OPERATION AND CERTIFY THE INSTALLATION IN ACCORDANCE WITH STATE REQUIREMENTS AS WELL AS THOSE OF THE LOCAL AUTHORITIES.
 - THE SYSTEM SHALL COMPLY WITH KBC AND NPFA REQUIREMENTS.
 - ALL CABLES SHALL BE AS RECOMMENDED BY THE SUPPLIER, AND SHALL BE UL LISTED FOR THE APPLICATION.
 - DUCT SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 (CFM), IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES. UPON ACTIVATION, THE SMOKE DETECTOR SHALL SHUT DOWN ALL OPERATIONAL CAPABILITIES OF THE AIR DISTRIBUTION SYSTEM BEING MONITORED.

- DUCT SMOKE DETECTORS SHALL BE FURNISHED WITH AIR HANDLING EQUIPMENT. DUCT SMOKE DETECTORS SHALL BE NOTIFIER DNR(A) WITH FSP-951 PHOTOELECTRIC SMOKE DETECTOR.
- NEW DUCT SMOKE DETECTORS SHALL BE CONNECTED TO EXISTING SIGNALING LINE CIRCUITS. FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL RELAY MODULE AND INTERLOCK WIRING AS REQUIRED TO SHUTDOWN AIR HANDLING CAPABILITY OF EQUIPMENT UPON ACTIVATION OF DETECTOR. ALARM INDICATION SHALL BE ANNUNCIATED BY THE NOTIFICATION APPLIANCES, FIRE ALARM PANEL AND SUPERVISORY STATION.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT.

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DATE: OCTOBER 2023
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SHEET NO.

E-002

ELECTRICAL SPECIFICATIONS
LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
350 NORTH LIMESTONE, LEXINGTON, KY



engineering | architecture | geospatial
www.gwinc.com

GRV PROJECT NO. 4973-03

CLIENT PROJECT NO.

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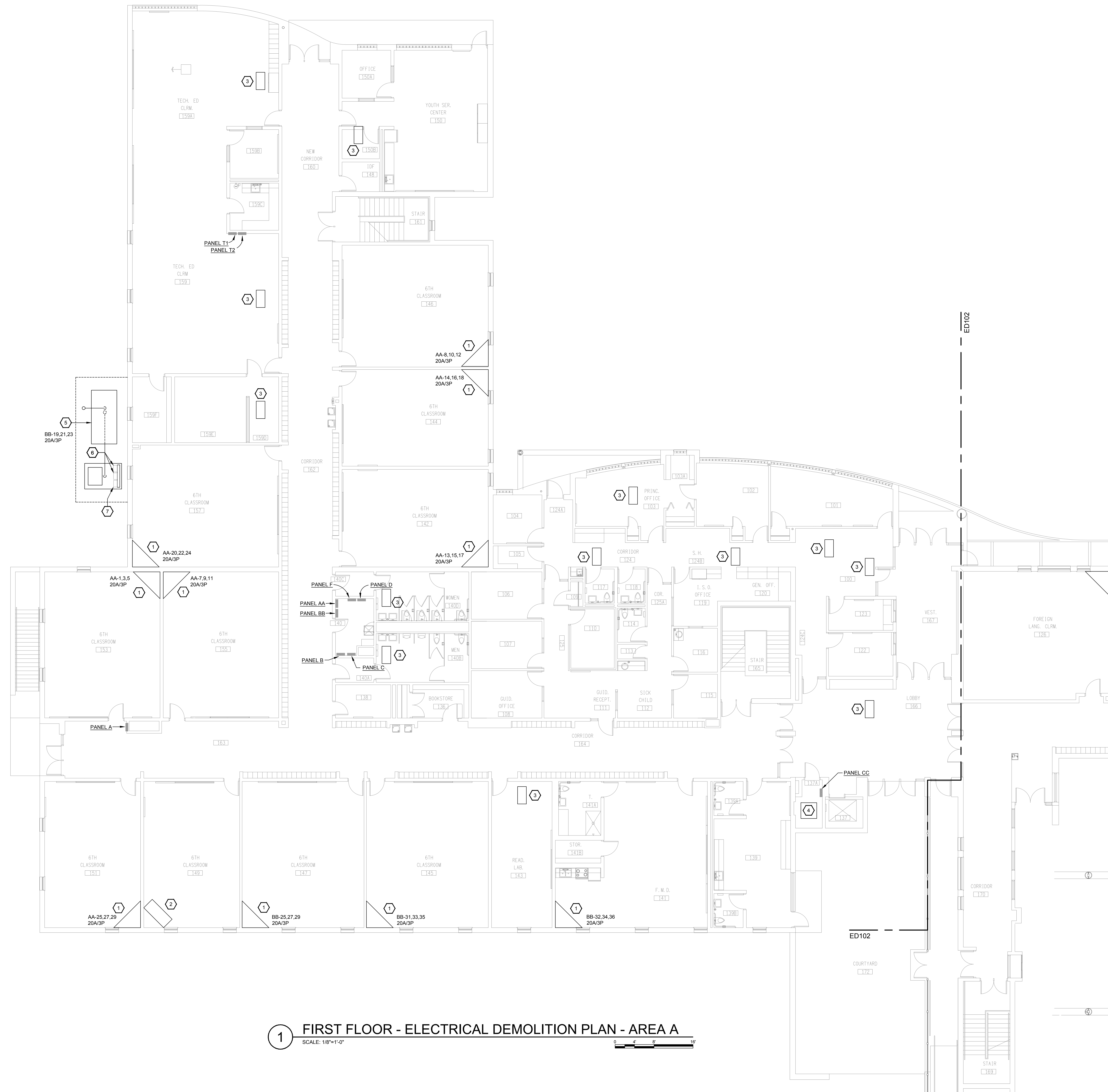
CONSTRUCTION DOCUMENTS

GENERAL NOTES:

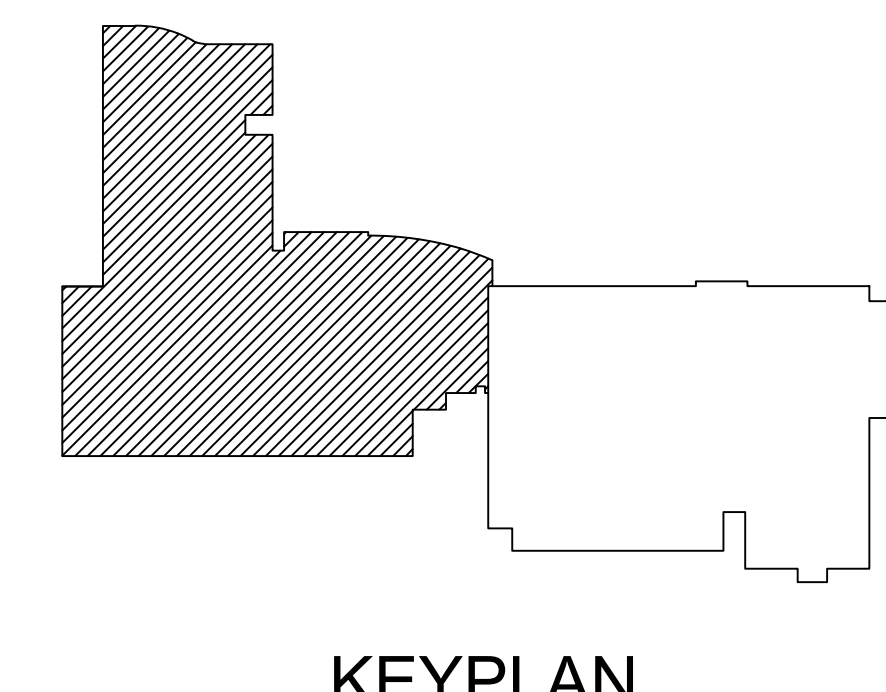
- DEMOLITION PLANS HAVE BEEN DEVELOPED FROM SITE VISITS AND EXISTING BUILDING DRAWINGS. SOME DEVICES MAY NOT BE INDICATED.
- IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HARDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- ITEMS TO BE DEMOLISHED ARE INDICATED WITH A HATCH PATTERN.
- REMOVE ALL WIRING AND EXPOSED CONDUIT ASSOCIATED WITH DEMOLISHED ELECTRICAL EQUIPMENT / DEVICES UNLESS CIRCUIT IS INDICATED TO BE REUSED. REMOVE BACK TO SOURCE. MAINTAIN ALL ELECTRICAL CONNECTIONS TO DEVICES AND EQUIPMENT THAT REMAIN.

SHEET KEYNOTES:

- EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP TO BE DISCONNECTED AND REMOVED. EXISTING DISCONNECT SWITCH AND POWER WIRING TO REMAIN FOR RECONNECTION TO NEW REPLACEMENT UNIT. DISCONNECT SWITCH IS LOCATED ABOVE CEILING. LABEL INDICATES EXISTING PANELBOARD AND CIRCUIT NUMBER.
- EXISTING STAND ALONE RECTANGULAR HEAT PUMP SHALL REMAIN. NO WORK REQUIRED.
- EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN. NO WORK REQUIRED.
- EXISTING VERTICAL HEAT PUMP SHALL REMAIN. NO WORK REQUIRED.
- EXISTING COOLING TOWER TO BE DISCONNECTED AND REMOVED. EXISTING POWER WIRING TO REMAIN FOR RECONNECTION TO NEW REPLACEMENT UNIT. EXISTING CIRCUIT IS FED FROM PANELBOARD BB (BB-19.21.23).
- EXISTING COOLING TOWER CONTROL PANEL AND DISCONNECT SWITCH TO BE DISCONNECTED AND REMOVED. EXISTING POWER WIRING TO REMAIN FOR RECONNECTION TO NEW DISCONNECT AND CONTROL PANEL. EXISTING CIRCUIT IS FED FROM PANELBOARD BB (BB-19.21.23).
- EXISTING SUMP PUMP CONTROL PANEL TO REMAIN.



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



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	APPROVED	CTC			

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 SCALE: 1/8" = 1'-0"
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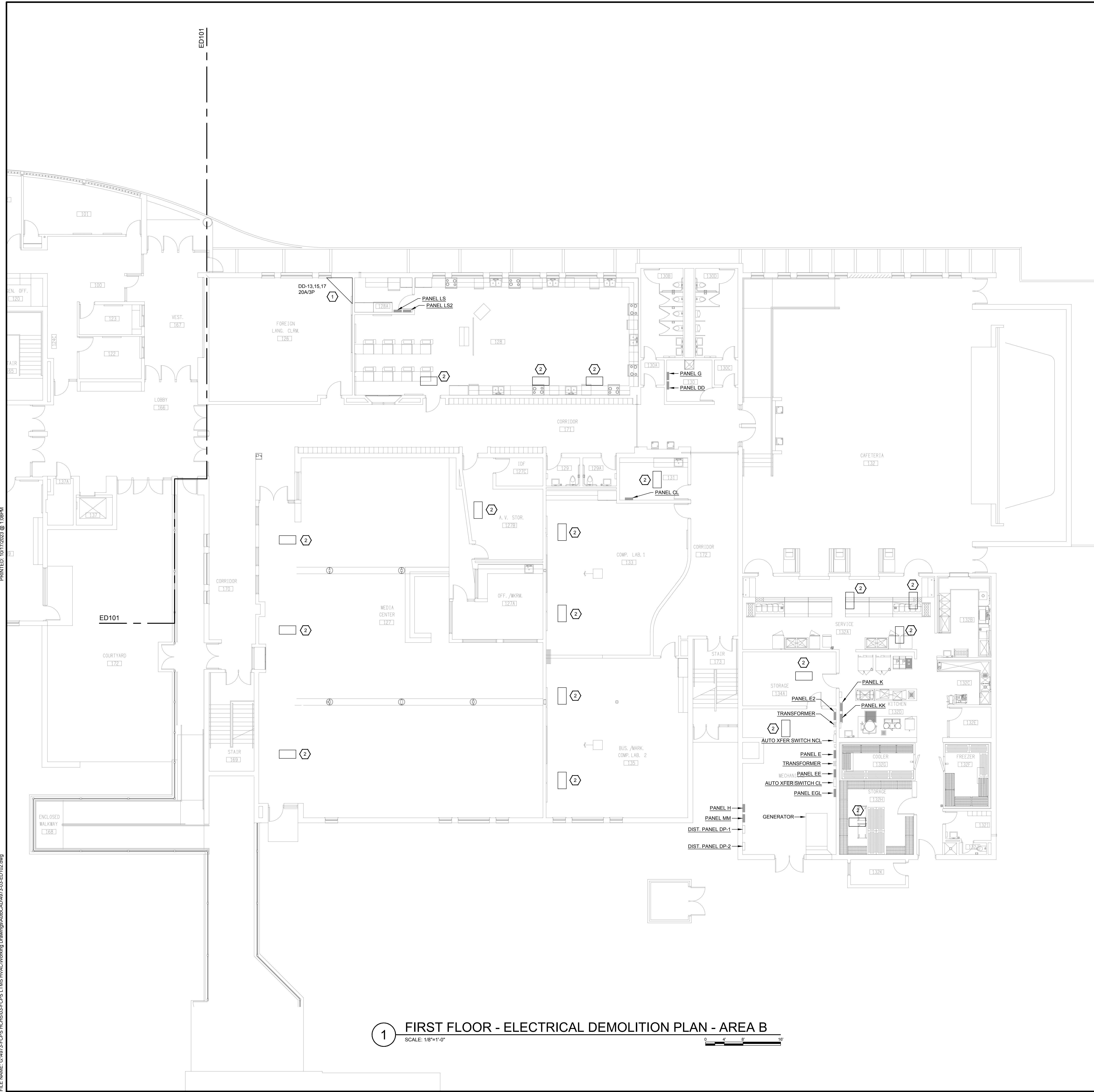
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 ELECTRICAL DEMOLITION PLAN - AREA A**
 LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
 350 NORTH LIMESTONE, LEXINGTON, KY



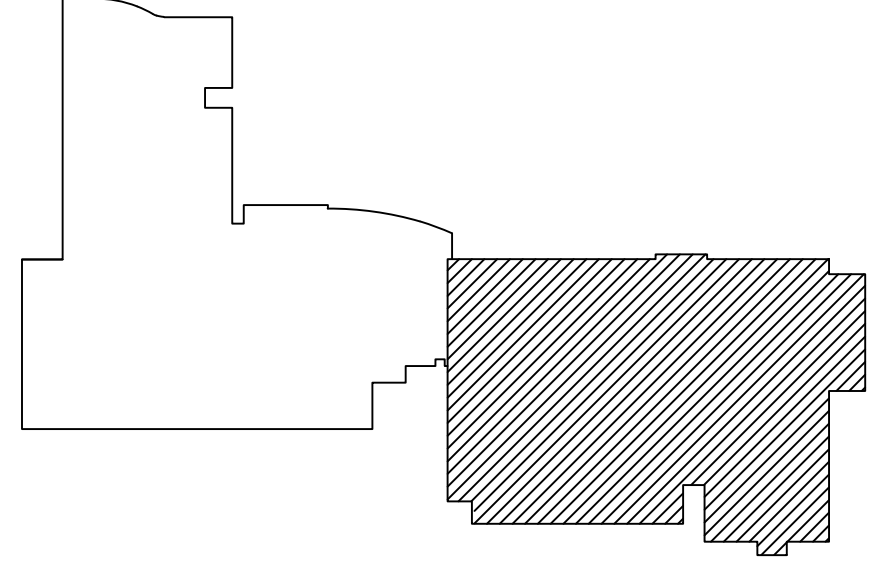
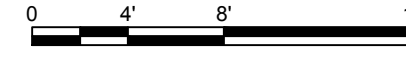
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1 FIRST FLOOR - ELECTRICAL DEMOLITION PLAN - AREA B
 SCALE: 1/8"=1'-0"



GENERAL NOTES:

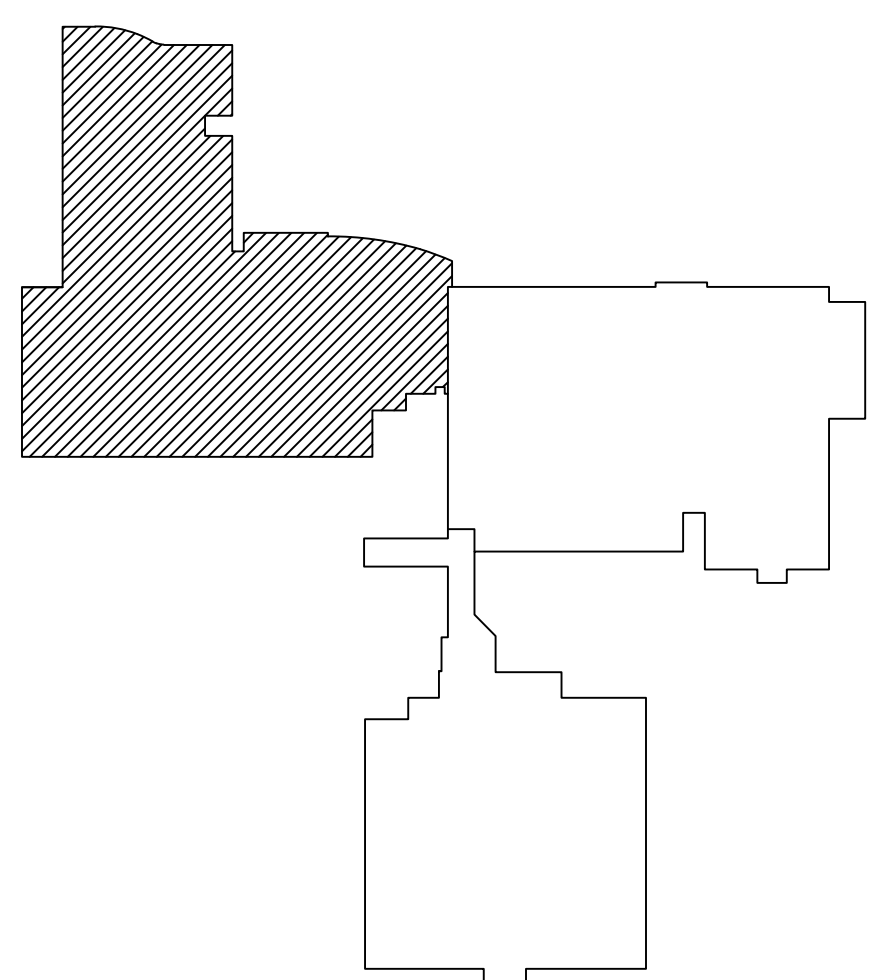
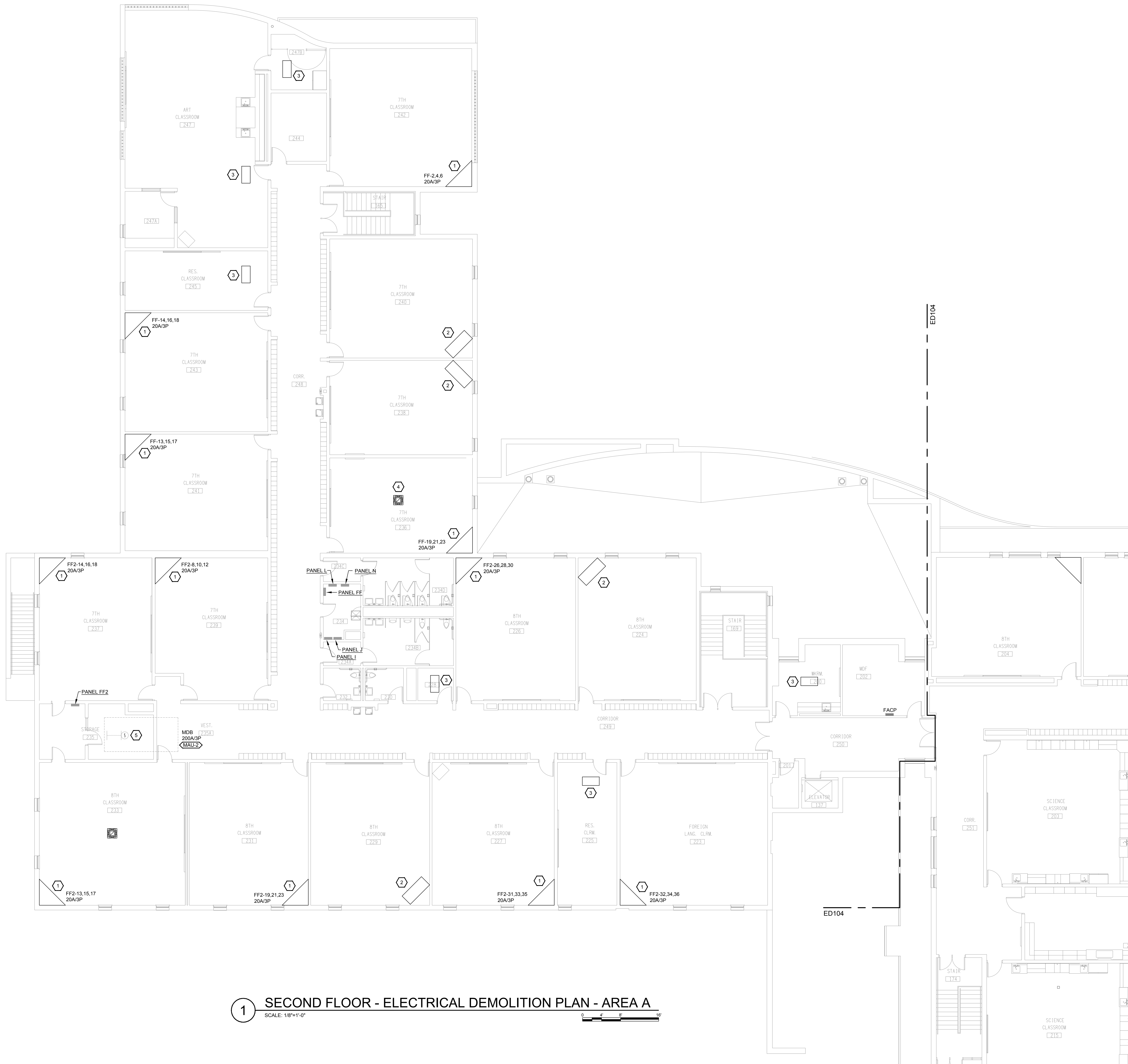
- DEMOLITION PLANS HAVE BEEN DEVELOPED FROM SITE VISITS AND EXISTING BUILDING DRAWINGS. SOME DEVICES MAY NOT BE INDICATED.
- IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HANDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- ITEMS TO BE DEMOLISHED ARE INDICATED WITH A HATCH PATTERN.
- REMOVE ALL WIRING AND EXPOSED CONDUIT ASSOCIATED WITH DEMOLISHED ELECTRICAL EQUIPMENT / DEVICES UNLESS CIRCUIT IS INDICATED TO BE REUSED. REMOVE BACK TO SOURCE. MAINTAIN ALL ELECTRICAL CONNECTIONS TO DEVICES AND EQUIPMENT THAT REMAIN.

SHEET KEYNOTES:

- EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP TO BE DISCONNECTED AND REMOVED. EXISTING DISCONNECT SWITCH AND POWER WIRING TO REMAIN FOR RECONNECTION TO NEW REPLACEMENT UNIT. DISCONNECT SWITCH IS LOCATED ABOVE CEILING. LABEL INDICATES EXISTING PANELBOARD AND CIRCUIT NUMBER.
- EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN. NO WORK REQUIRED.

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<p>FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY</p>		
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DRAWN	STAFF	DATE
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APPROVED	CTC	DATE
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ED102		

CONSTRUCTION DOCUMENTS




GENERAL NOTES:

- DEMOLITION PLANS HAVE BEEN DEVELOPED FROM SITE VISITS AND EXISTING BUILDING DRAWINGS. SOME DEVICES MAY NOT BE INDICATED.
- IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HAZARDOUS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
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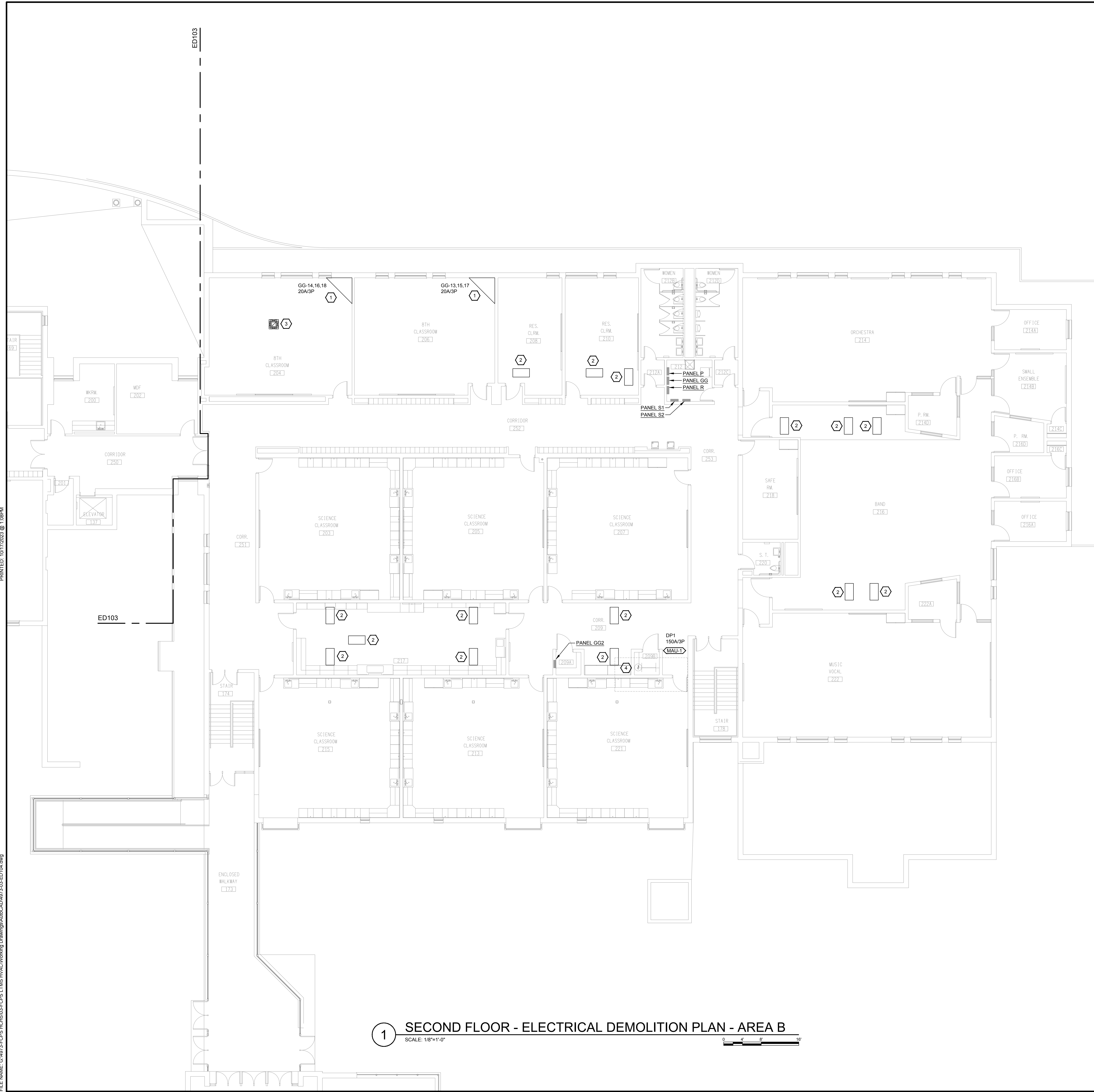
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- EXISTING STAND ALONE RECTANGULAR HEAT PUMP SHALL REMAIN. NO WORK REQUIRED.
- EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN. NO WORK REQUIRED.
- EXISTING VRF CASSETTE ALONG WITH ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND OUTDOOR CONDENSING UNIT SHALL REMAIN. NO WORK REQUIRED.
- EXISTING DUCT SMOKE DETECTOR TO BE DISCONNECTED, REMOVED AND REPLACED. EXISTING FIRE ALARM CIRCUIT SHALL REMAIN FOR CONNECTION TO NEW UNIT.

1 SECOND FLOOR - ELECTRICAL DEMOLITION PLAN - AREA A
 SCALE: 1/8"=1'-0"
 0 4 8 16'

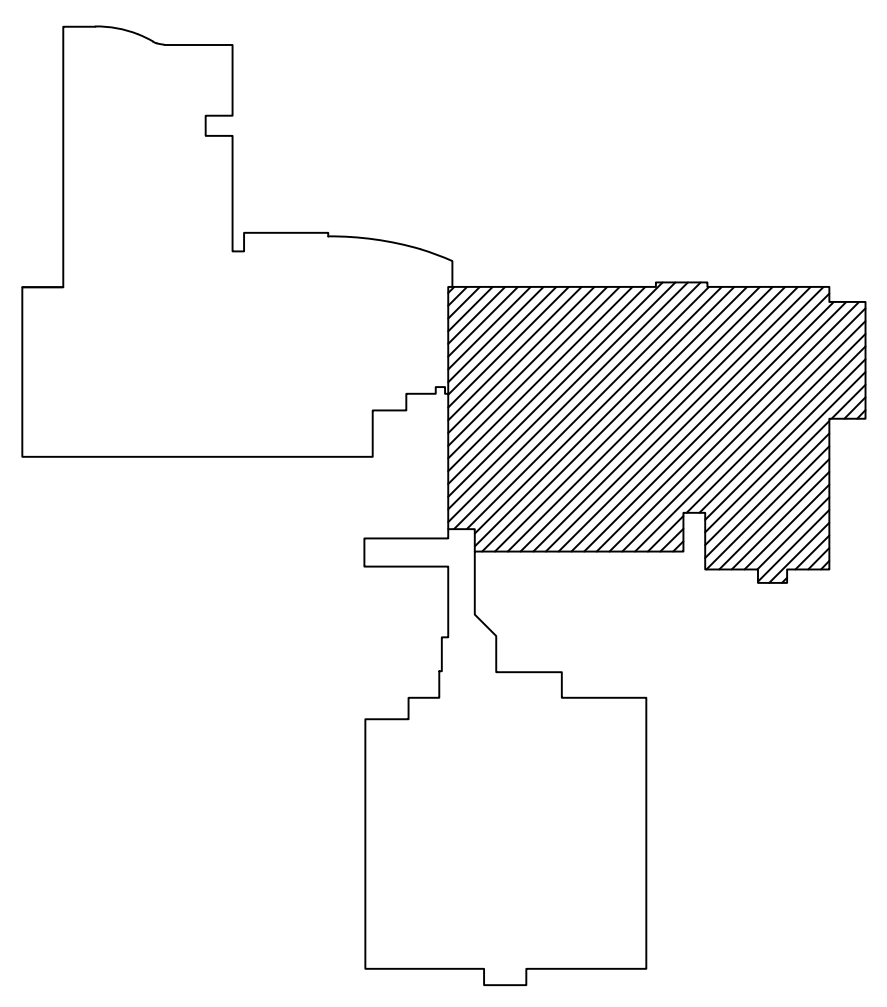
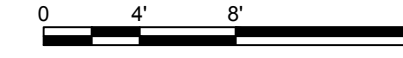
 engineering architecture geospatial www.girbinc.com		GRW PROJECT NO: 4973-03 CLIENT PROJECT NO:
SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY		
DESIGNED: CTC DRAWN: STAFF REVISIONS:	DATE:	APPROVED: CTC STAFF:
SHEET NO: ED103		

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



KEYPLAN

GENERAL NOTES:

- DEMOLITION PLANS HAVE BEEN DEVELOPED FROM SITE VISITS AND EXISTING BUILDING DRAWINGS. SOME DEVICES MAY NOT BE INDICATED.
- IT SHALL BE THE RESPONSIBILITY OF ALL CONTRACTORS WHO SUBMIT BIDS FOR THIS PROJECT TO VISIT THE JOB PREMISES PRIOR TO BIDDING IN ORDER THAT THEY MAY DETERMINE THE TYPE, QUANTITY, LOCATIONS AND ANY HANDSHIPS INVOLVED WITH THE REMOVAL OF EQUIPMENT.
- CONTRACTOR UNDER THIS DIVISION IS FINANCIALLY RESPONSIBLE TO REPAIR AND PATCH FLOORS, WALLS, CEILING AND ROOF TO MATCH EXISTING CONDITION WHERE DEMOLITION WORK HAS BEEN DONE. COORDINATE ALL WORK WITH OWNER/ENGINEER.
- ITEMS TO BE DEMOLISHED ARE INDICATED WITH A HATCH PATTERN.
- REMOVE ALL WIRING AND EXPOSED CONDUIT ASSOCIATED WITH DEMOLISHED ELECTRICAL EQUIPMENT / DEVICES UNLESS CIRCUIT IS INDICATED TO BE REUSED. REMOVE BACK TO SOURCE. MAINTAIN ALL ELECTRICAL CONNECTIONS TO DEVICES AND EQUIPMENT THAT REMAIN.

SHEET KEYNOTES:

- EXISTING TRIANGLE CORNER STAND ALONE HEAT PUMP TO BE DISCONNECTED AND REMOVED. EXISTING DISCONNECT SWITCH AND POWER WIRING TO REMAIN FOR RECONNECTION TO NEW REPLACEMENT UNIT. DISCONNECT SWITCH IS LOCATED ABOVE CEILING. LABEL INDICATES EXISTING PANELBOARD AND CIRCUIT NUMBER.
- EXISTING HORIZONTAL HEAT PUMP LOCATED ABOVE CEILING SHALL REMAIN. NO WORK REQUIRED.
- EXISTING VRF CASSETTE ALONG WITH ASSOCIATED REFRIGERANT PIPING, CONTROLS, AND OUTDOOR CONDENSING UNIT SHALL REMAIN. NO WORK REQUIRED.
- EXISTING DUCT SMOKE DETECTOR TO BE DISCONNECTED, REMOVED AND REPLACED. EXISTING FIRE ALARM CIRCUIT SHALL REMAIN FOR CONNECTION TO NEW UNIT.

<p>SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA B LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY</p>		<p>CLIENT PROJECT NO. GRW PROJECT NO. 4973-03</p>												
<p>engineering architecture geospatial www.grwinc.com</p>		<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	DESCRIPTION								
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<p>DESIGNED: CTC</p>	<p>STAFF</p>	<p>APPROVED: CTC</p>												
<p>DATE: OCTOBER 2023</p> <p>SCALE: 1/8" = 1'-0"</p> <p>SHEET NO. ED104</p>														

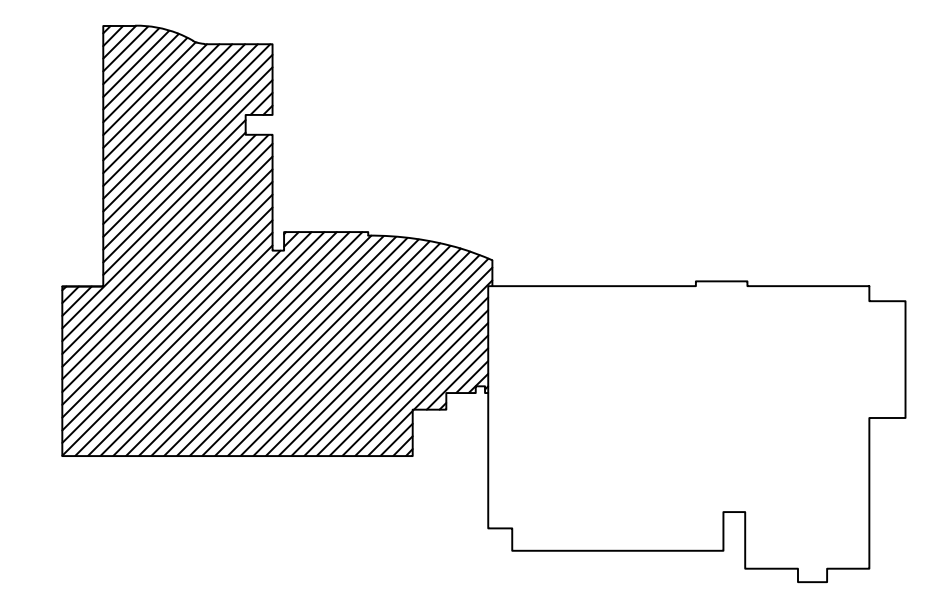
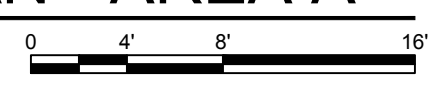
CONSTRUCTION DOCUMENTS

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



GENERAL NOTES:

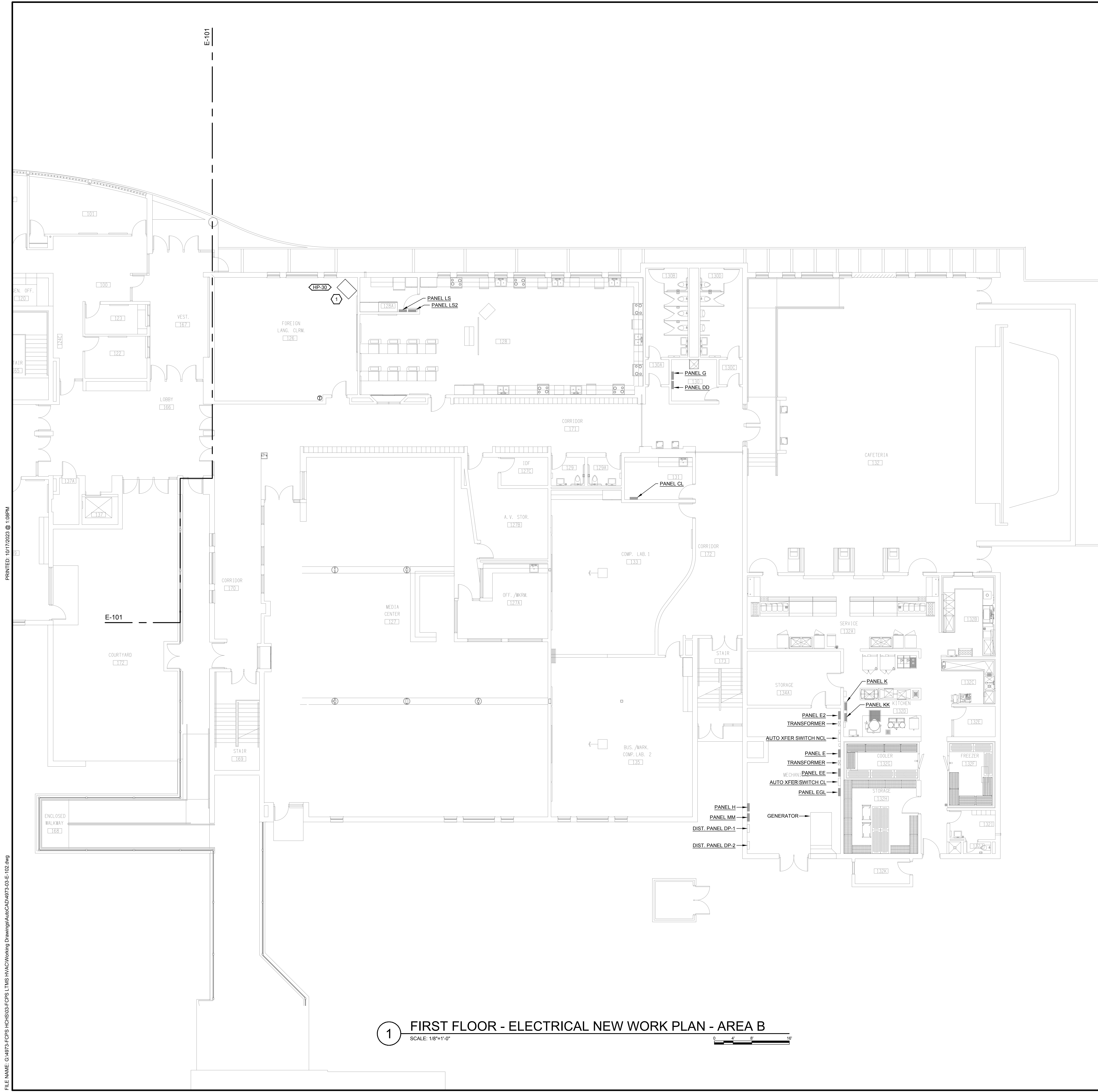
- FOR LOCATIONS WHERE NEW EQUIPMENT IS SHOWN TO BE CONNECTED TO EXISTING POWER CIRCUITS, CONTRACTOR SHALL DISCONNECT, REMOVE AND REPLACE FINAL SECTION OF CONDUIT AND WIRE BACK TO DISCONNECT SWITCH LOCATED ABOVE CEILING. FINAL SECTION OF CONDUIT AND WIRE MAY BE REUSED WHERE POSSIBLE.

SHEET KEYNOTES:

- EXISTING HEAT PUMP CIRCUIT IN THIS AREA TO BE CONNECTED TO NEW EQUIPMENT. EXISTING DISCONNECT SWITCH IS LOCATED ABOVE CEILING AT UNIT.
- NEW COOLING TOWER TO BE RECONNECTED TO EXISTING CIRCUIT. CONTRACTOR SHALL REPLACE EXISTING CONDUIT AND WIRE BACK TO ELECTRICAL RACK. INSTALL (3)#10 AND (1)#10 GND IN 3/4" FROM COOLING TOWER TO NEW RACK MOUNTED CONTROL PANEL.
- EXISTING ELECTRICAL EQUIPMENT RACK.
- NEW RACK MOUNTED COOLING TOWER CONTROL PANEL (FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR).
- INTERCEPT EXISTING COOLING TOWER CIRCUIT AND EXTEND (3)#10 AND (1)#10 GND IN 3/4" TO NEW COOLING TOWER CONTROL PANEL.

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FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA A LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY																											
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DATE: OCTOBER 2023 SCALE: 1/8" = 1'-0" SHEET NO.: E-101																											

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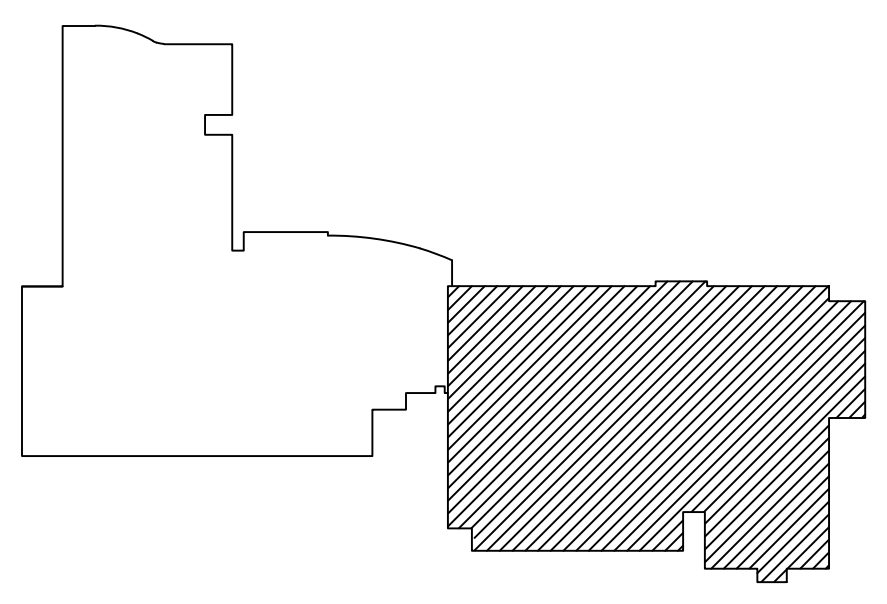
GENERAL NOTES:

- FOR LOCATIONS WHERE NEW EQUIPMENT IS SHOWN TO BE CONNECTED TO EXISTING POWER CIRCUITS, CONTRACTOR SHALL DISCONNECT, REMOVE AND REPLACE FINAL SECTION OF CONDUIT AND WIRE BACK TO DISCONNECT SWITCH LOCATED ABOVE CEILING. FINAL SECTION OF CONDUIT AND WIRE MAY BE REUSED WHERE POSSIBLE.

SHEET KEYNOTES:

- EXISTING HEAT PUMP CIRCUIT IN THIS AREA TO BE CONNECTED TO NEW EQUIPMENT. EXISTING DISCONNECT SWITCH IS LOCATED ABOVE CEILING AT UNIT.

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



KEYPLAN

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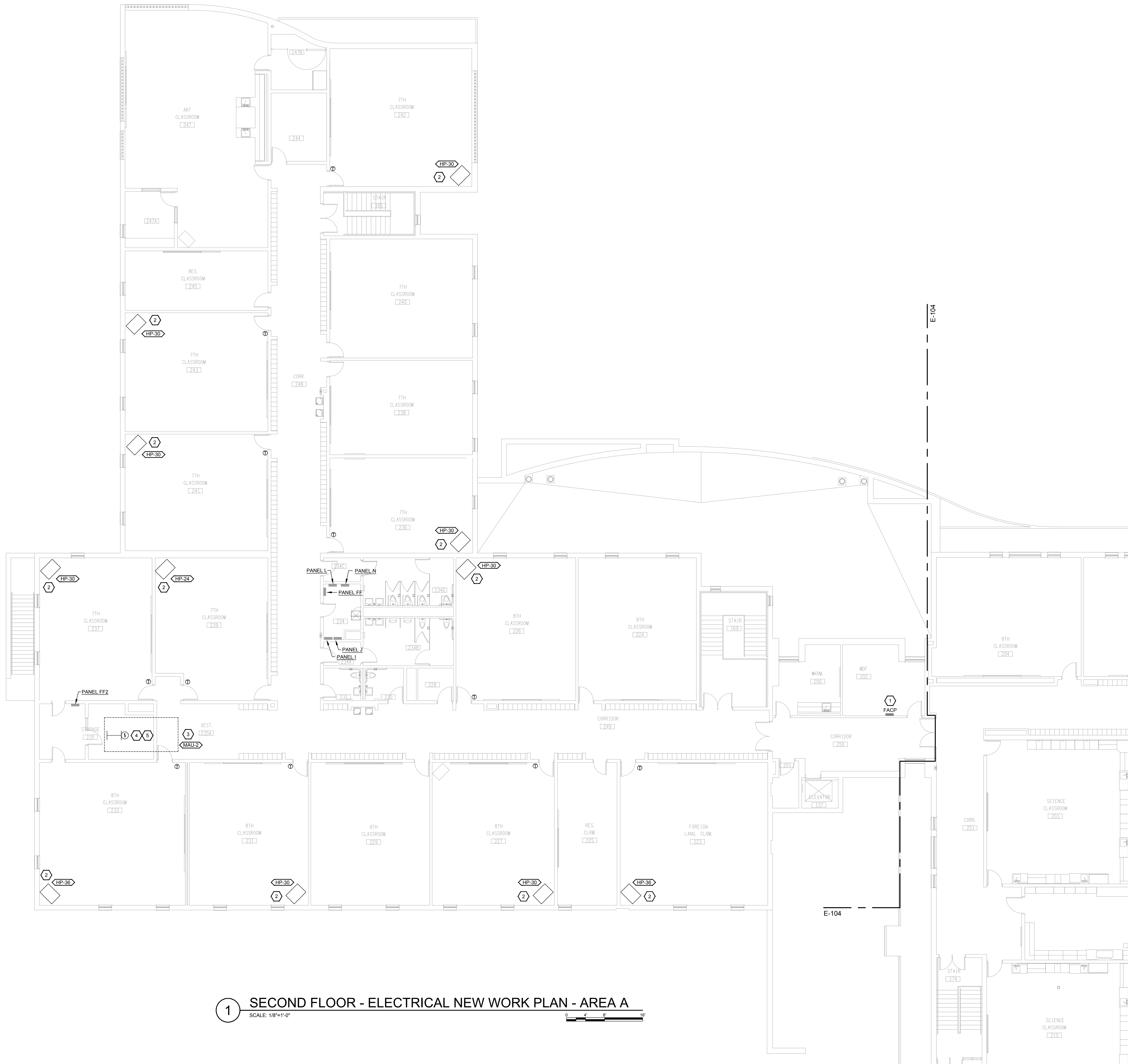


**FIRST FLOOR
 ELECTRICAL NEW WORK PLAN - AREA B
 LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT
 350 NORTH LIMESTONE, LEXINGTON, KY**

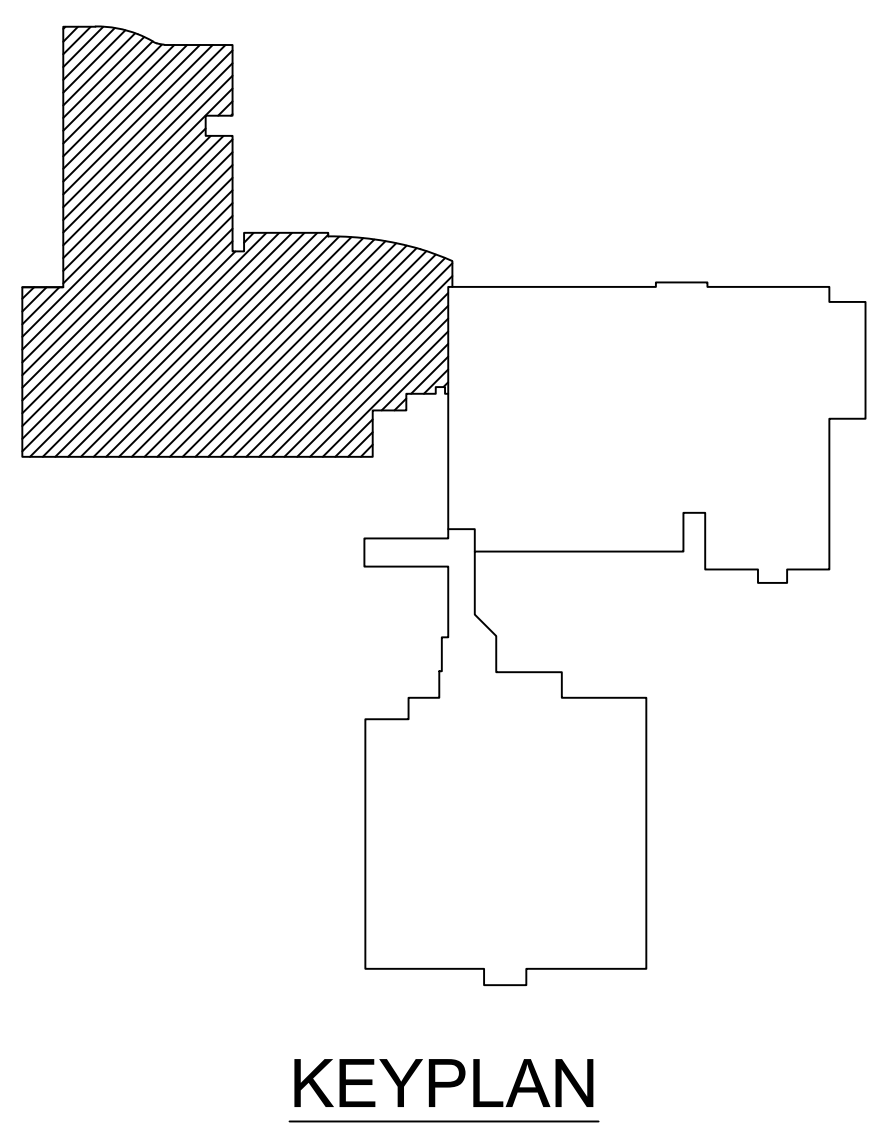
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NO. DATE BY DESCRIPTION
 OCTOBER 2023
 SCALE: 1/8" = 1'-0"
 SHEET NO.
E-102

CONSTRUCTION DOCUMENTS



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



GENERAL NOTES:

- FOR LOCATIONS WHERE NEW EQUIPMENT IS SHOWN TO BE CONNECTED TO EXISTING POWER CIRCUITS, CONTRACTOR SHALL DISCONNECT, REMOVE AND REPLACE FINAL SECTION OF CONDUIT AND WIRE BACK TO DISCONNECT SWITCH LOCATED ABOVE CEILING. FINAL SECTION OF CONDUIT AND WIRE MAY BE REUSED WHERE POSSIBLE.
- DUCT SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR ON ALL NEW AIR HANDLING EQUIPMENT WITH DESIGN CAPACITY GREATER THAN 2000 CFM. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS UPSTREAM OF ANY FILTERS, EXHAUST OR OUTDOOR AIR CONNECTIONS. UPON ACTIVATION, THE FIRE ALARM SYSTEM SHALL SHUTDOWN ALL OPERATIONAL CAPABILITIES OF THE AIR HANDLING EQUIPMENT.

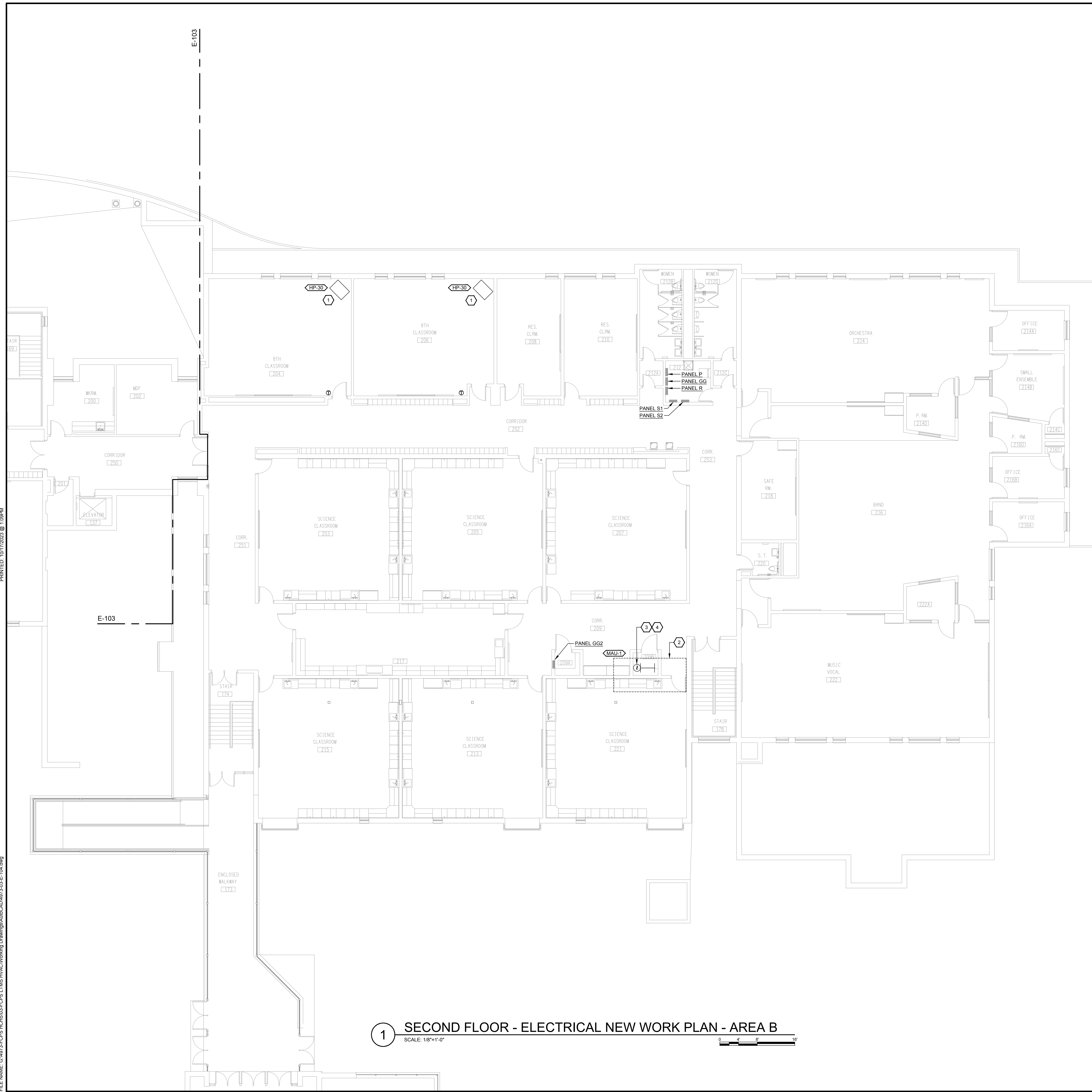
SHEET KEYNOTES:

- EXISTING NOTIFIER AFP-400 FIRE ALARM CONTROL PANEL.
- EXISTING HEAT PUMP CIRCUIT IN THIS AREA TO BE CONNECTED TO NEW EQUIPMENT. EXISTING DISCONNECT SWITCH IS LOCATED ABOVE CEILING AT UNIT.
- EXISTING MAKEUP AIR UNIT TO BE RECONNECTED TO EXISTING CIRCUIT. EXTEND (3) #30 AND (1) #6 IN 2" FROM EXISTING CIRCUIT TO NEW FACTORY INSTALLED EQUIPMENT DISCONNECT AS REQUIRED.
- NEW DUCT SMOKE DETECTOR INSTALLED IN RETURN AIR SYSTEM OF MAKEUP AIR UNIT UPSTREAM OF ANY FILTERS, EXHAUST OR OUTDOOR AIR CONNECTIONS. UPON ACTIVATION, THE FIRE ALARM SYSTEM SHALL SHUTDOWN ALL OPERATIONAL CAPABILITIES OF THE AIR HANDLING EQUIPMENT.
- FIRE ALARM CONTRACTOR TO RECONNECT EXISTING FIRE ALARM SIGNALING LINE CIRCUIT TO NEW DUCT SMOKE DETECTOR AND INSTALL RELAY MODULE AND AIR HANDLING UNIT INTERLOCK WIRING AS REQUIRED FOR PROPER OPERATION.

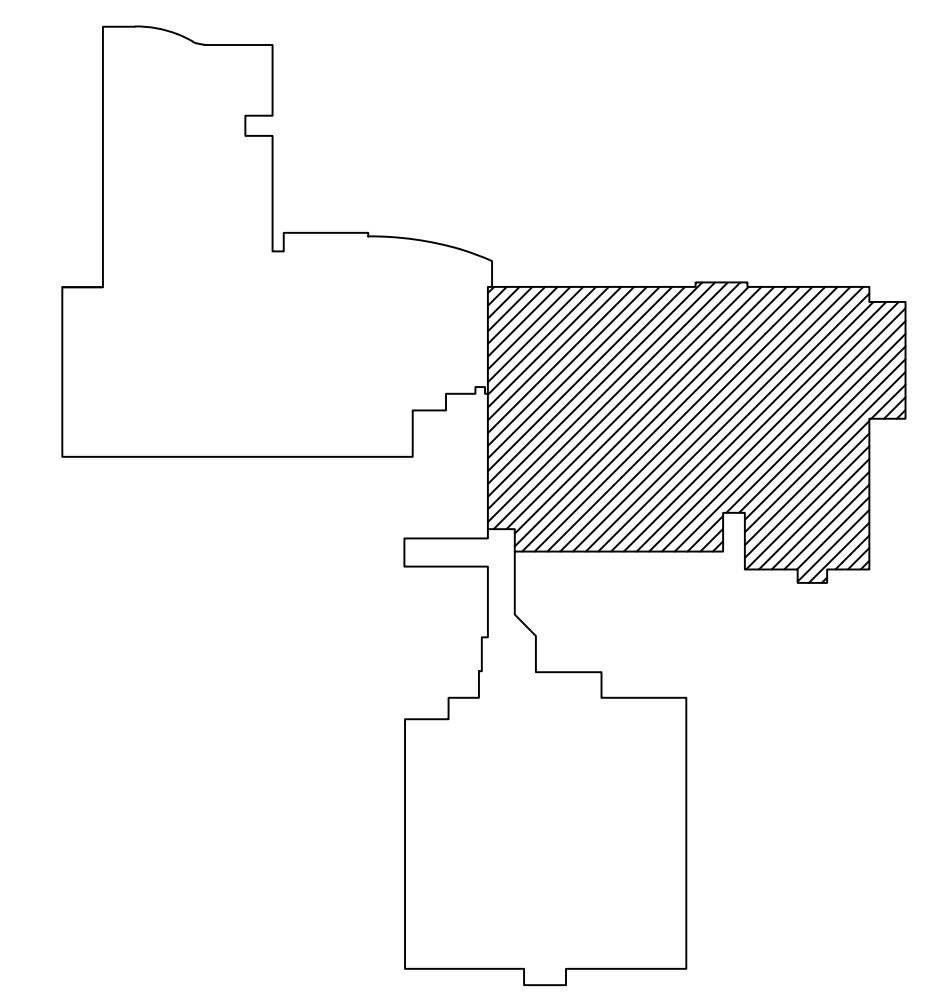
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<p>SECOND FLOOR</p> <p>ELECTRICAL NEW WORK PLAN - AREA A</p> <p>LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT</p> <p>350 NORTH LIMESTONE, LEXINGTON, KY</p>	
<p>DESIGNED: CYTC</p> <p>DRAWN: STAFF</p> <p>REVIEWED: CTC</p> <p>APPROVED: CTC</p>	<p>NO.</p> <p>DATE</p> <p>BY</p> <p>DESCRIPTION</p>
<p>DATE: OCTOBER 2023</p> <p>SCALE: 1/8" = 1'-0"</p> <p>SHEET NO. E-103</p>	

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1 SECOND FLOOR - ELECTRICAL NEW WORK PLAN - AREA B
 SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL NOTES:

- FOR LOCATIONS WHERE NEW EQUIPMENT IS SHOWN TO BE CONNECTED TO EXISTING POWER CIRCUITS, CONTRACTOR SHALL DISCONNECT, REMOVE AND REPLACE FINAL SECTION OF CONDUIT AND WIRE BACK TO DISCONNECT SWITCH LOCATED ABOVE CEILING. FINAL SECTION OF CONDUIT AND WIRE MAY BE REUSED WHERE POSSIBLE.

SHEET KEYNOTES:

- EXISTING HEAT PUMP CIRCUIT IN THIS AREA TO BE CONNECTED TO NEW EQUIPMENT. EXISTING DISCONNECT SWITCH IS LOCATED ABOVE CEILING AT UNIT.
- EXISTING MAKEUP AIR UNIT TO BE RECONNECTED TO EXISTING CIRCUIT. EXTEND (3#1/0 AND (1#6 GND IN 1-1/2" C FROM EXISTING CIRCUIT TO NEW FACTORY INSTALLED EQUIPMENT DISCONNECT AS REQUIRED.
- NEW DUCT SMOKE DETECTOR INSTALLED IN RETURN AIR SYSTEM OF MAKEUP AIR UNIT UPSTREAM OF ANY FILTERS, EXHAUST OR OUTDOOR AIR CONNECTIONS. UPON ACTIVATION, THE FIRE ALARM SYSTEM SHALL SHUTDOWN ALL OPERATIONAL CAPABILITIES OF THE AIR HANDLING EQUIPMENT.
- FIRE ALARM CONTRACTOR TO RECONNECT EXISTING FIRE ALARM SIGNALING LINE CIRCUIT TO NEW DUCT SMOKE DETECTOR AND INSTALL RELAY MODULE AND AIR HANDLING UNIT INTERLOCK WIRING AS REQUIRED FOR PROPER OPERATION.

<p>SECOND FLOOR ELECTRICAL NEW WORK PLAN - AREA B LEXINGTON TRADITIONAL MAGNET SCHOOL - HVAC REPLACEMENT 350 NORTH LIMESTONE, LEXINGTON, KY</p>		 www.girb.com	GRW PROJECT NO. 4973-03 CLIENT PROJECT NO. <small>THIS DOCUMENT IS THE PROPERTY OF GIRB AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF GIRB.</small>								
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