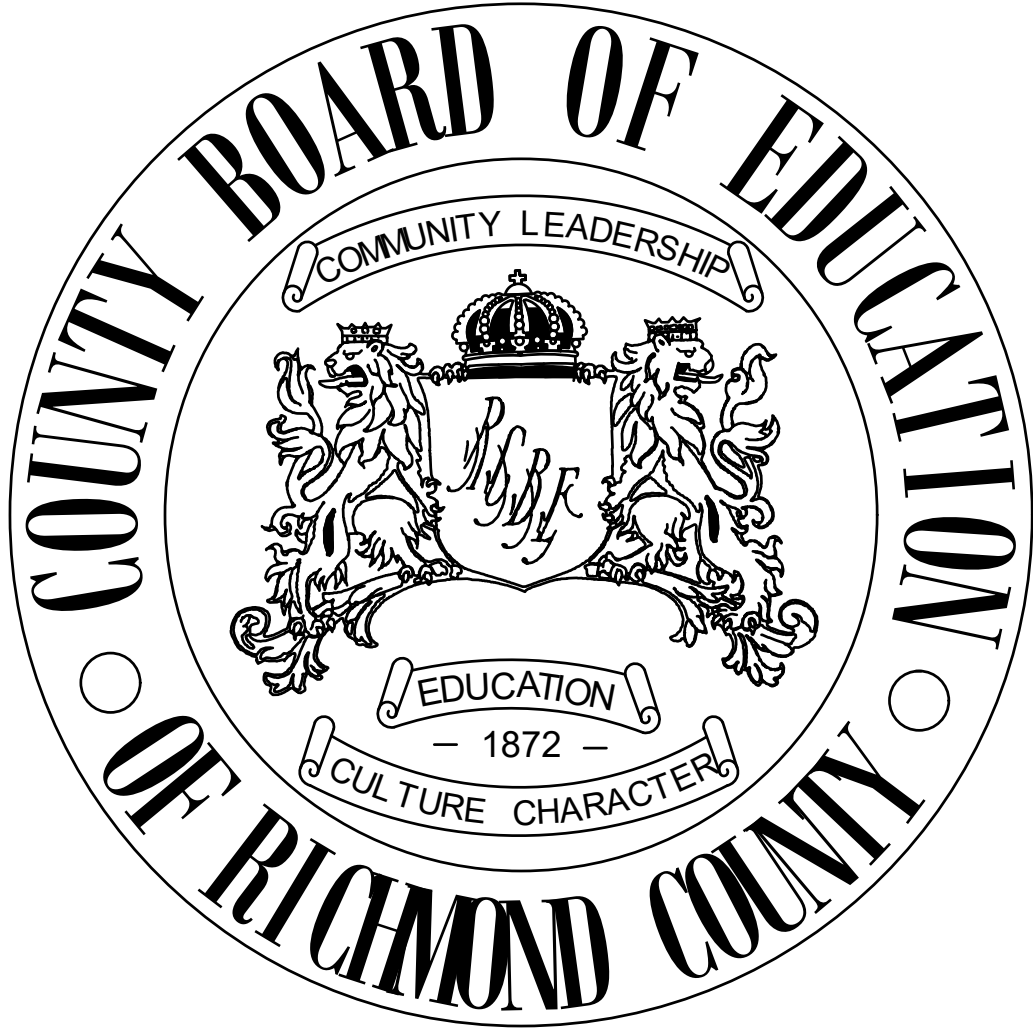




FREEDOM PARK
K-8 SCHOOL
HVAC PROJECT

PROJECT NO. B-21-024-0103.2

345 42ND STREET
FORT GORDON, GA 30905

SHEET	TITLE
S1.1	EQUIPMENT SUPPORT FRAMING - ADD ALTERNATE WING G
P1.1	PLUMBING PLAN
M1.1	HVAC DEMOLITION PLAN - ADMIN AREA
M1.2	HVAC DEMOLITION PLAN - WING C
M1.3	HVAC DEMOLITION PLAN - WINGS D & E
M1.4	HVAC DEMOLITION PLAN - WINGS F & G
M1.5	HVAC DEMOLITION PLAN - GYMNASIUM
M2.1	HVAC NEW WORK PLAN - ADMIN AREA
M2.2	HVAC NEW WORK PLAN - WING C
M2.3	HVAC NEW WORK PLAN - WINGS D & E
M2.4	HVAC NEW WORK PLAN - WINGS F & G
M2.5	HVAC NEW WORK PLAN - ROOF
M2.6	HVAC PLANS - ADD ALTERNATE WING G
M2.7	HVAC CONTROLS PLAN
M3.1	HVAC DETAILS & POINTS LISTS
M4.1	HVAC SCHEDULES
E1.0	LEGEND, NOTES, AND DETAILS
E2.1	MECHANICAL POWER - ADMIN AREA
E2.2	MECHANICAL POWER - WING C
E2.3	MECHANICAL POWER - WING D AND E
E2.4	MECHANICAL POWER - WING F AND G



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FREEDOM PARK
K-8 SCHOOL
HVAC PROJECT

PROJECT NO. B-21-024-0103.2

FOR
RICHMOND COUNTY BOARD OF EDUCATION

RCBOE #
FACILITY CODE 721-0103

345 42ND STREET
FORT GORDON, GA 30905

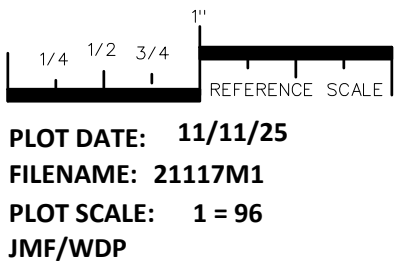
REVISION	DATE

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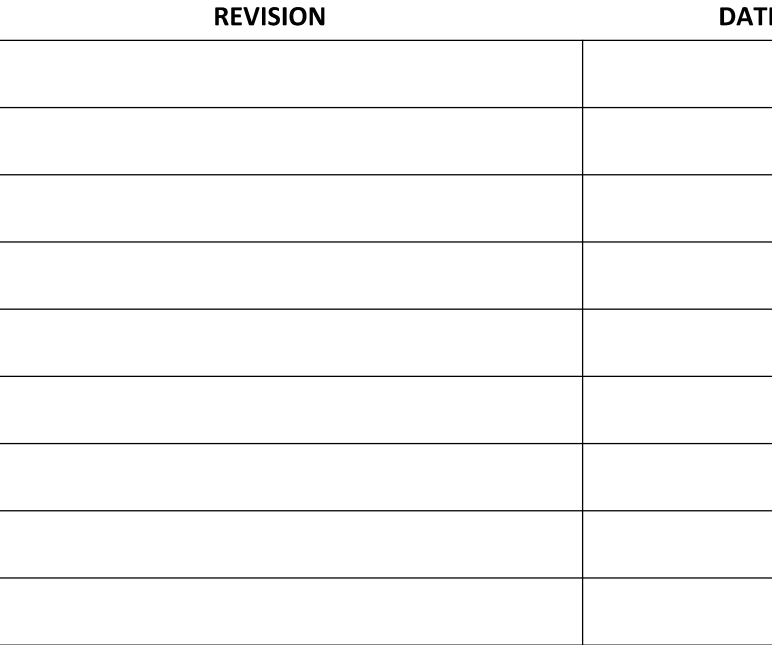
COVER SHEET

DRAWN BY WDP	CHECKED BY JMF	DATE 11/10/25
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FILE NUMBER 21117	SHEET CVR
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RCBOE #
FACILITY CODE 721-0103
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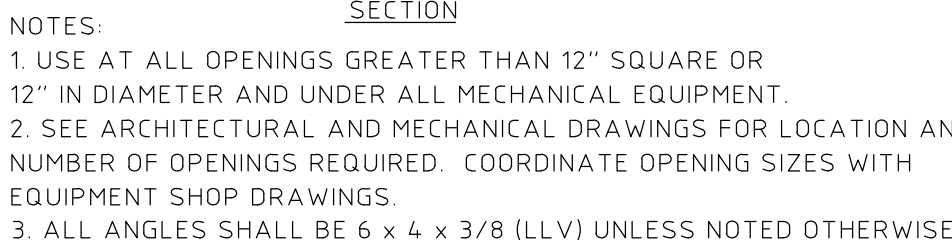
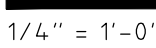


SHEET

1 1

	Prevalence	Incidence
Chronic disease	10%	1%
Acute disease	1%	10%

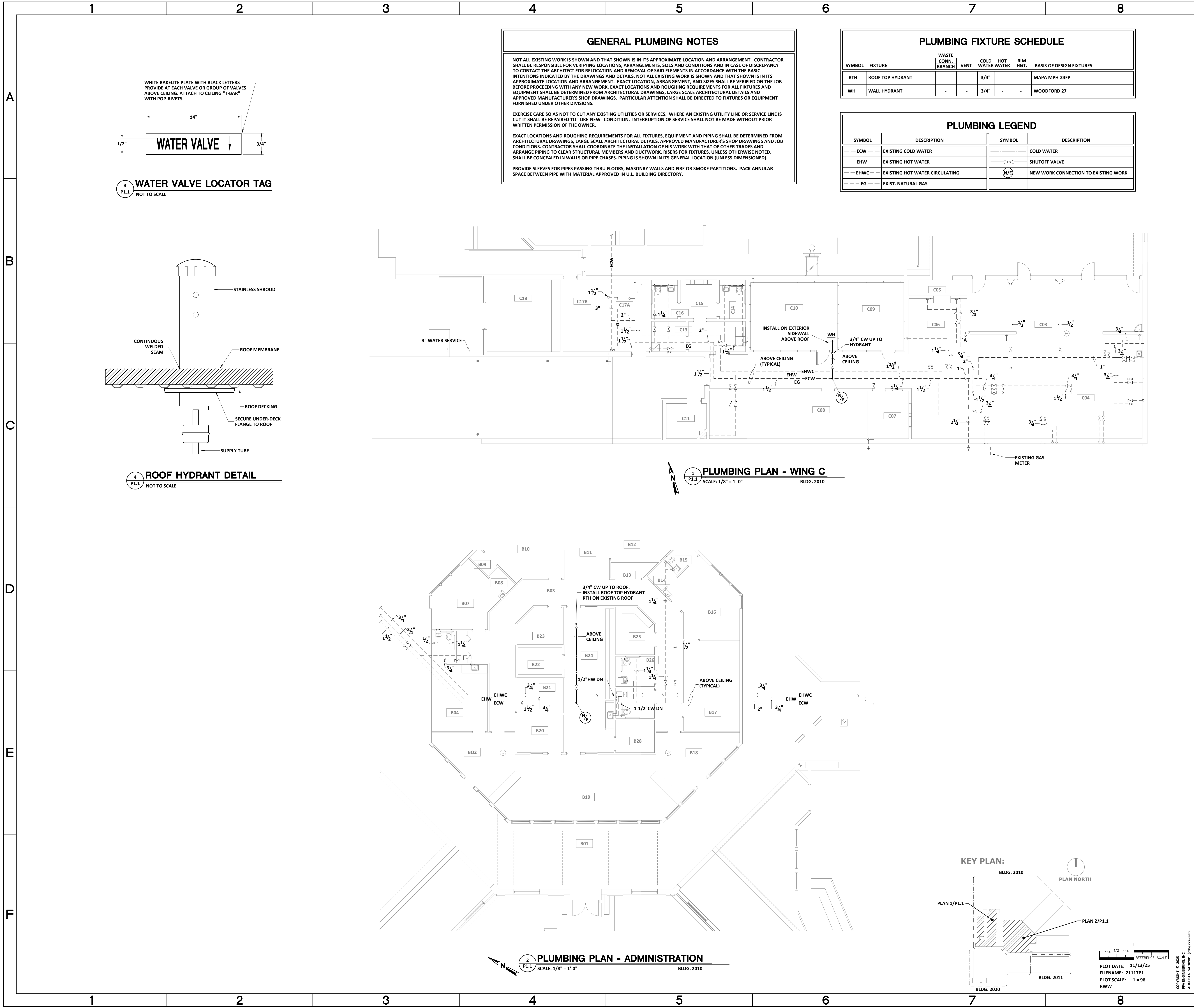
EXISTING PAINTED STEEL SECTIONS - CLEAN STEEL TO LEVEL SSPC 1 (USE SSPC 2 AS NECESSARY). TOP COAT WITH 2 COATS PRO INDUSTRIAL MULTI-SURFACE ACRYLIC OR APPROVED EQUAL.



NO SCALE

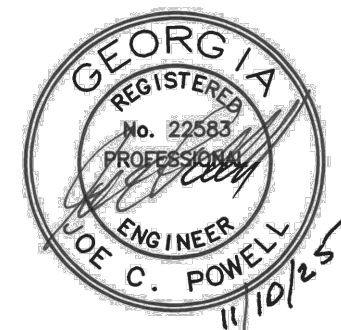

$$1'' = 1' - 0''$$

$$1'' = 1' - 0''$$

FREEDOM PARK
K-8 SCHOOL
HVAC PROJECT

PROJECT NO. B-21-024-0103.2
FOR
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FACILITY CODE 721-0103
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REVISION	DATE

SHEET TITLE: PLUMBING PLAN		
DRAWN BY JCP	CHECKED BY JCP	DATE 11/10/25
FILE NUMBER 21117		SHEET P1.1

DEMOLITION NOTES (THIS SHEET ONLY):

- DEMOLISH EXISTING ROOFTOP ERU AND ASSOCIATED CONTROLS. REPLACE WITH NEW UNIT AS SHOWN ON NEW WORK PLANS. PROVIDE TEMPORARY DUCT PROTECTION AND CURB CAP AS REQUIRED.
- DEMOLISH EXISTING ROOFTOP HVAC UNIT AND ASSOCIATED CONTROLS. REPLACE WITH NEW UNIT AS SHOWN ON NEW WORK PLANS. PROVIDE TEMPORARY DUCT PROTECTION AND CURB CAP AS REQUIRED.
- DEMOLISH EXISTING INDOOR AND OUTDOOR HEAT PUMP SPLIT SYSTEM AND ASSOCIATED CONTROLS. REPLACE AS INDICATED ON NEW WORK PLANS. CLEAN, PURGE, AND REUSE REFRIGERANT PIPING WHERE APPROVED BY NEW SYSTEM MANUFACTURER.
- DEMOLISH PORTION OF DUCT ABOVE ROOF AND REPLACE AS INDICATED ON NEW WORK PLANS.

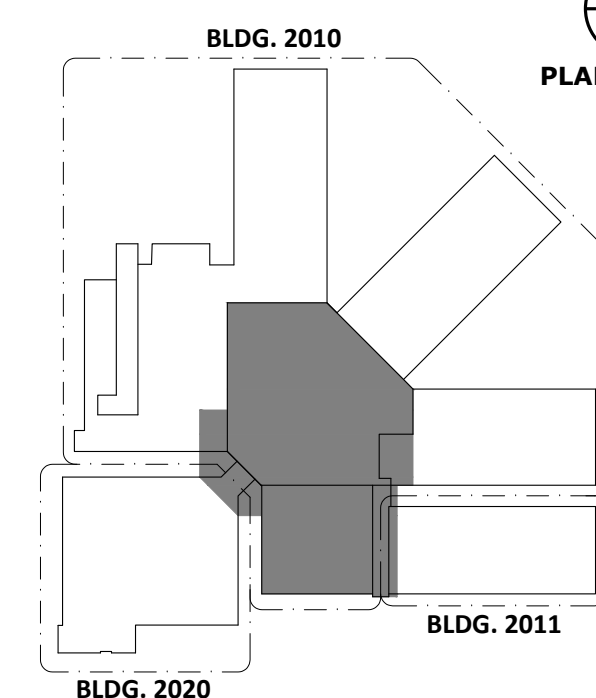
GENERAL DEMOLITION NOTES:
TURN ALL CONTROL DEVICES REMOVED DURING DEMOLITION OVER TO OWNER.
CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REPAIR/REPLACEMENT WHERE MECHANICAL WORK IS ABOVE EXISTING CEILINGS.

HVAC DEMOLITION PLAN - ADMINISTRATION AREA

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

BLDG. 2010

KEY PLAN:



PLOT DATE: 11/13/25
FILENAME: 21117M1
PLOT SCALE: 1" = 96'
JMF/WDP

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RCBOE #
FACILITY CODE 721-0103

345 42ND STREET
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REVISION	DATE
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SHEET TITLE:

HVAC DEMOLITION PLAN -
ADMIN AREA

DRAWN BY	CHECKED BY	DATE
WDP	JMF	11/10/25

FILE NUMBER

21117

SHEET

M1.1

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K-8 SCHOOL
HVAC PROJECT

PROJECT NO. B-21-024-0103.2

FOR
RICHMOND COUNTY BOARD OF EDUCATION

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FACILITY CODE 721-0103

345 42ND STREET
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REVISION	DATE
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SHEET TITLE:

HVAC DEMOLITION
PLAN - WING C

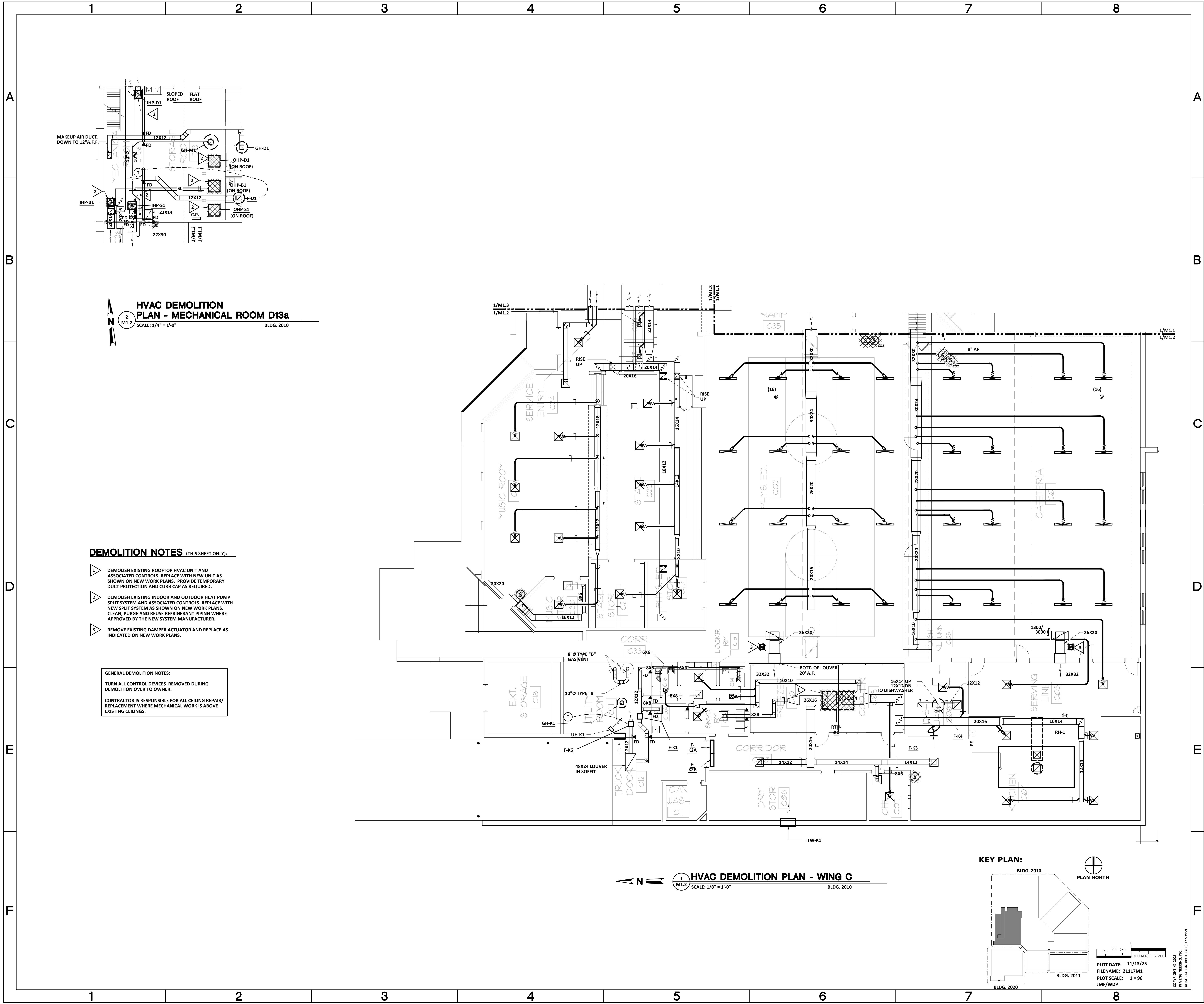
DRAWN BY	CHECKED BY	DATE
WDP	JMF	11/10/25

FILE NUMBER

21117

SHEET

M1.2



FREEDOM PARK K-8 SCHOOL HVAC PROJECT

PROJECT NO. B-21-024-0103.2
FOR
RICHMOND COUNTY BOARD OF EDUCATION
RCBOE #
FACILITY CODE 721-0103
345 42ND STREET
FORT GORDON, GA 30905



REVISION	DATE

SHEET TITLE:
**HVAC DEMOLITION
PLAN - WINGS D & E**

DRAWN BY: WDP
CHECKED BY: JMF
DATE: 11/10/25

FILE NUMBER: 21117
SHEET: M1.3

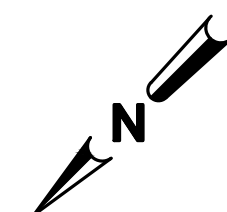
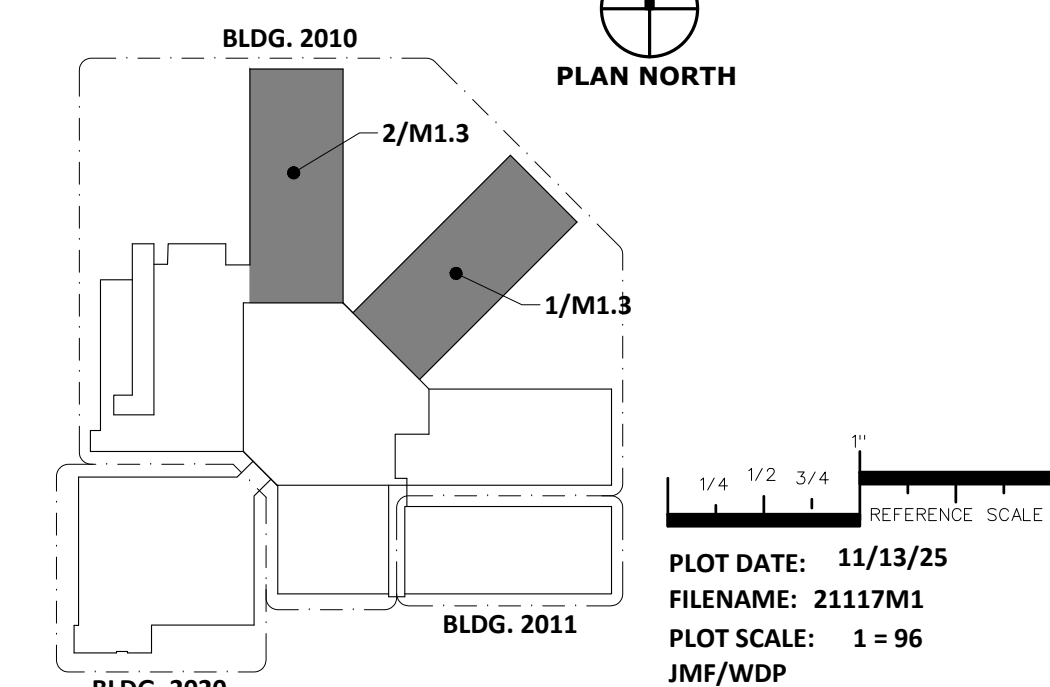
DEMOLITION NOTES (THIS SHEET ONLY):

- DEMOLISH EXISTING WALL-MOUNT HEAT PUMP AND ASSOCIATED CONTROLS. REPLACE WITH NEW HEAT PUMP AS SHOWN ON NEW WORK PLANS.
- DEMOLISH EXISTING ELECTRIC DUCT HEATER. REPAIR, SEAL, AND INSULATE DUCTWORK WHERE HEATER IS REMOVED.

GENERAL DEMOLITION NOTES:

TURN ALL CONTROL DEVICES. REMOVED DURING DEMOLITION OVER TO OWNER.
CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REPAIR/REPLACEMENT WHERE MECHANICAL WORK IS ABOVE EXISTING CEILINGS.

KEY PLAN:



HVAC DEMOLITION PLAN - WING D

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

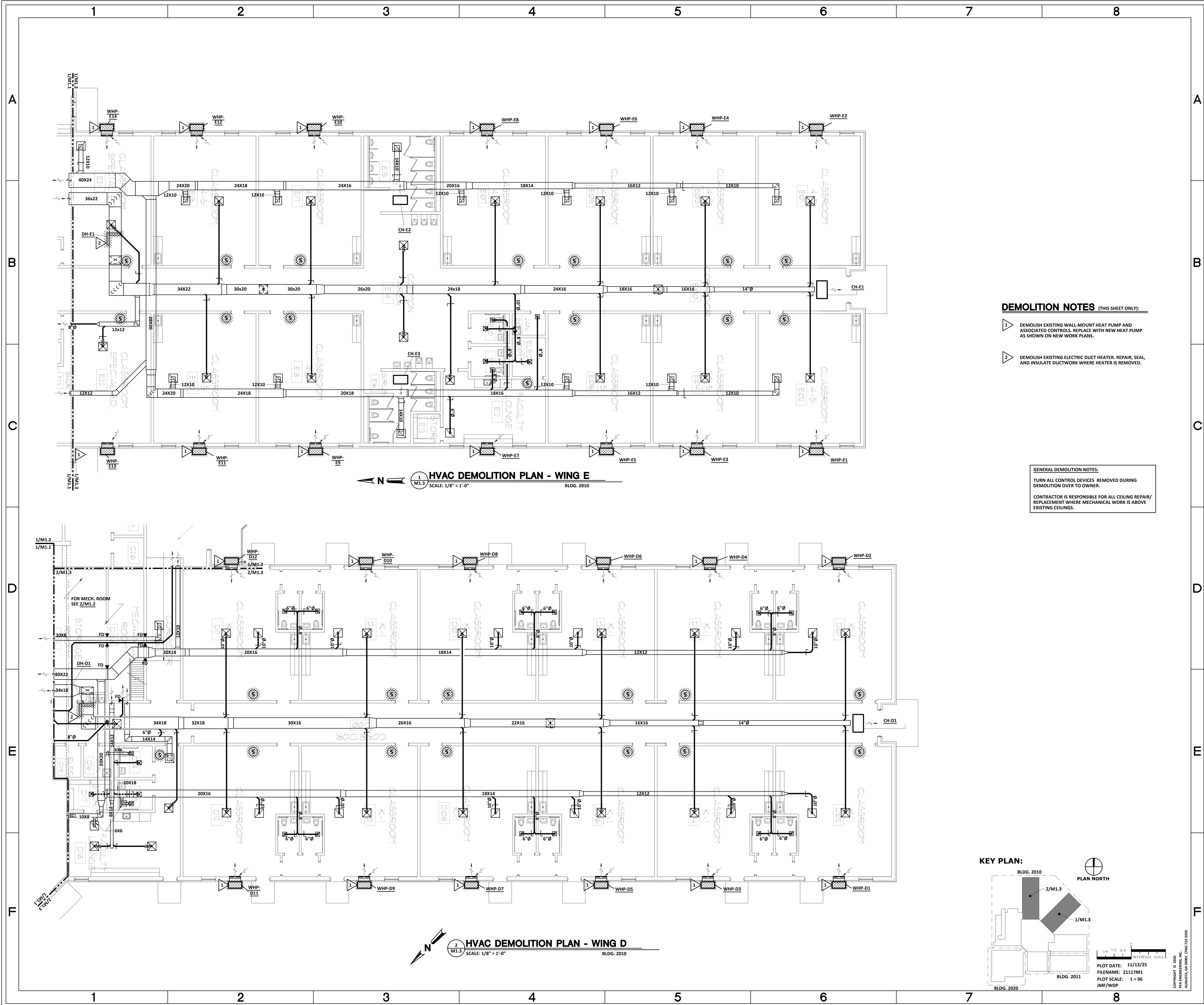
BLDG. 2010



HVAC DEMOLITION PLAN - WING E

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

BLDG. 2010



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REVISION	DATE

SHEET TITLE:

HVAC DEMOLITION PLAN - WINGS F & G

DRAWN BY WDP	CHECKED BY JMF	DATE 11/10/25
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FILE NUMBER

21117

SHEET

M1.4

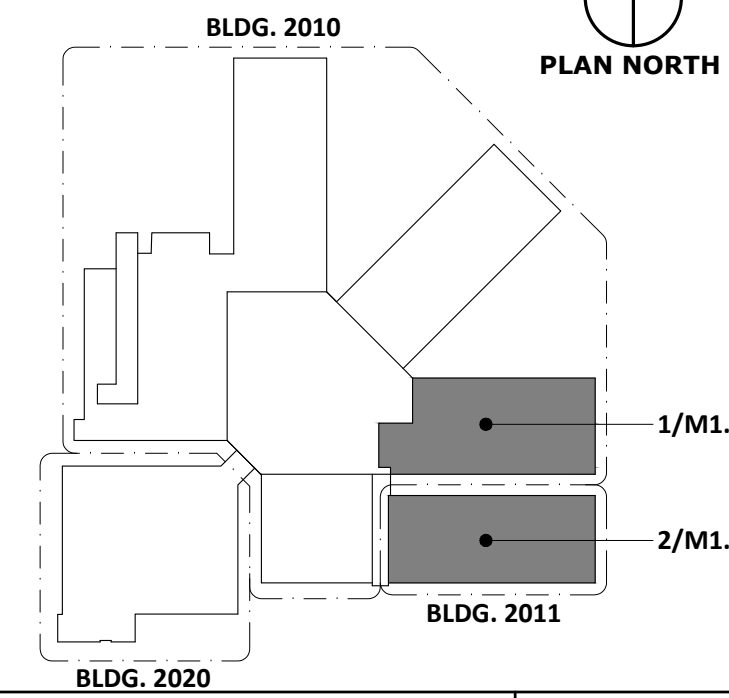
DEMOLITION NOTES (THIS SHEET ONLY):

- ▶ DEMOLISH EXISTING WALL-MOUNT HEAT PUMP AND ASSOCIATED CONTROLS. REPLACE WITH NEW HEAT PUMP AS SHOWN ON NEW WORK PLANS. WHERE THERMOSTAT IS TO BE INSTALLED IN NEW LOCATION, PROVIDE COVER PLATE IN OLD LOCATION.
- ▶ DEMOLISH EXISTING ELECTRIC DUCT HEATER. REPAIR, SEAL, AND INSULATE DUCTWORK WHERE HEATER IS REMOVED.
- ▶ DEMOLISH AND REMOVE EXISTING ENERGY RECOVERY VENTILATOR AND ASSOCIATED DUCT AS INDICATED. REPAIR OPENINGS IN EXISTING GABLE WALL TO MATCH ADJACENT SURFACES. PROVIDE SHEET METAL CAP ON EXISTING ROOF CURB. SEE DETAIL.
- ▶ DEMOLISH AND REMOVE EXISTING OUTDOOR HEAT PUMP, INDOOR HEAT PUMP, AND ASSOCIATED PIPING AND CONTROLS.
- ▶ DISABLE THERMOSTATIC CONTROLS ON EXISTING EXHAUST FAN, SWITCH DISCONNECT OFF, AND TAG UNIT "OUT OF SERVICE".

GENERAL DEMOLITION NOTES:

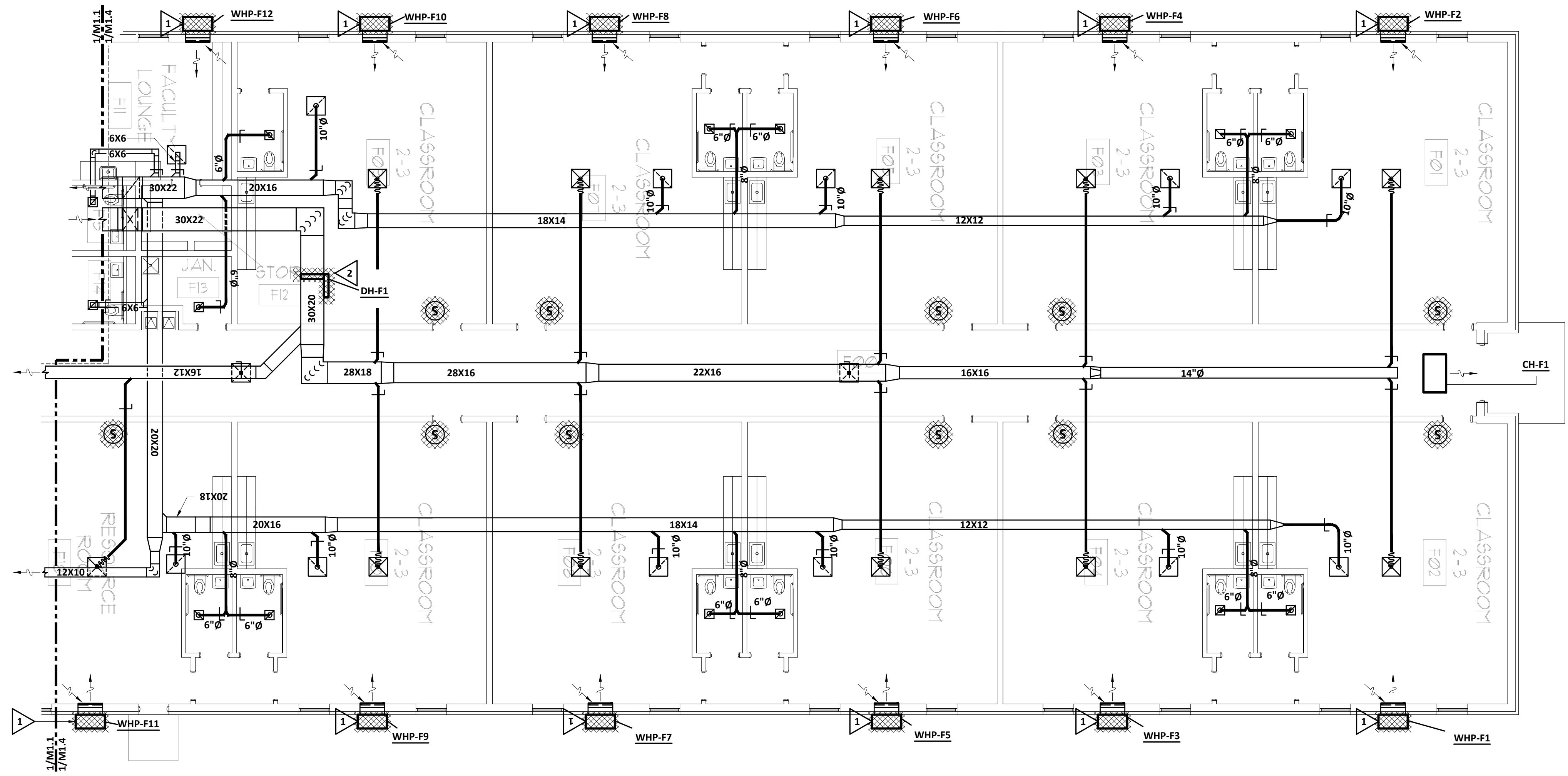
- TURN ALL CONTROL DEVICES REMOVED DURING DEMOLITION OVER TO OWNER.
- CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REPAIR/REPLACEMENT WHERE MECHANICAL WORK IS ABOVE EXISTING CEILINGS.

KEY PLAN:

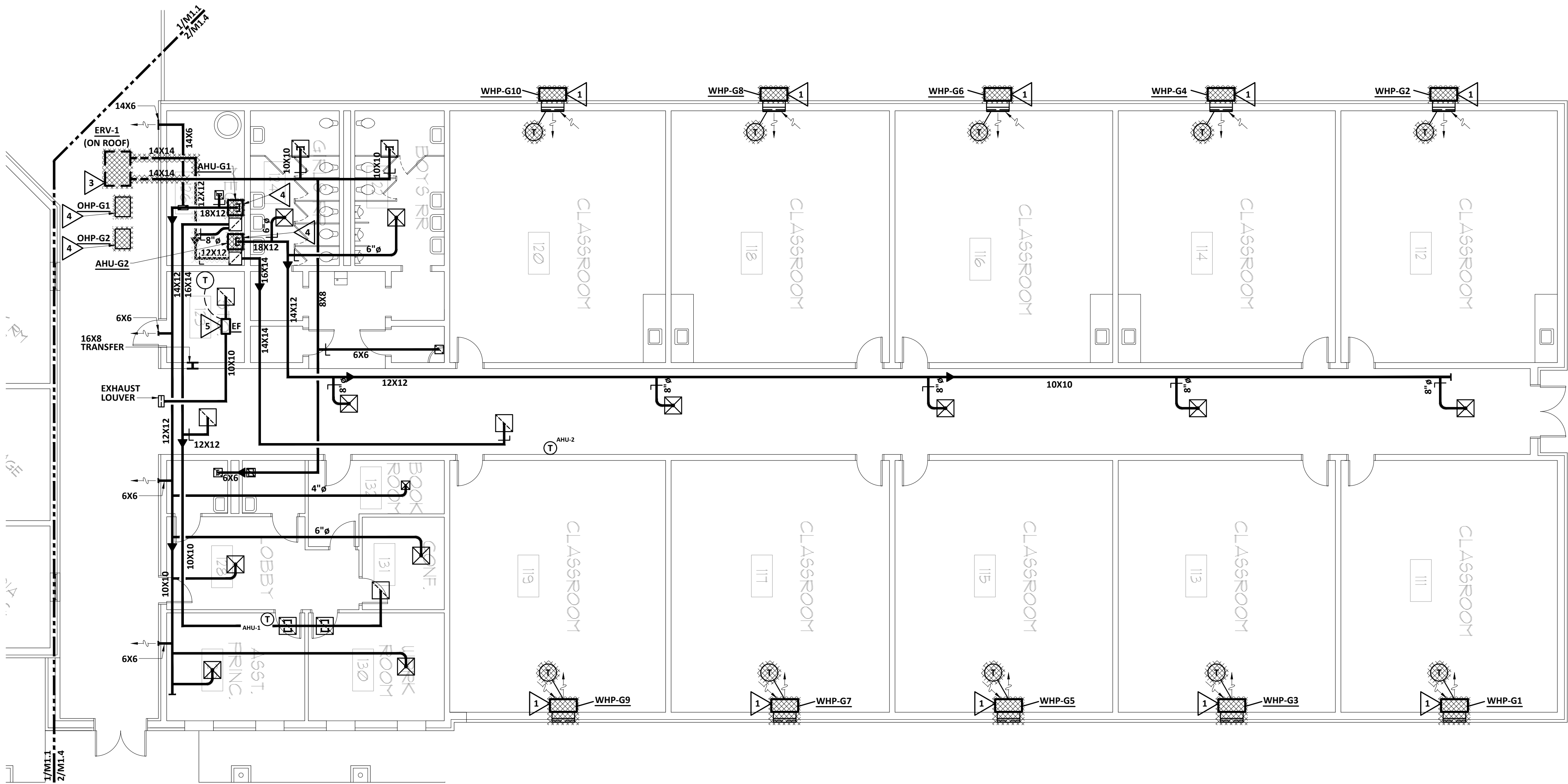


PLOT DATE: 11/13/25
FILENAME: 21117M1
PLOT SCALE: 1" = 96'
JMF/WDP

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HVAC DEMOLITION PLAN - WING F
SCALE: 1/8" = 1'-0"
BLDG. 2010



HVAC DEMOLITION PLAN - WING G
SCALE: 1/8" = 1'-0"
BLDG. 2011

PROJECT NO. B-21-024-0103.2

FOR

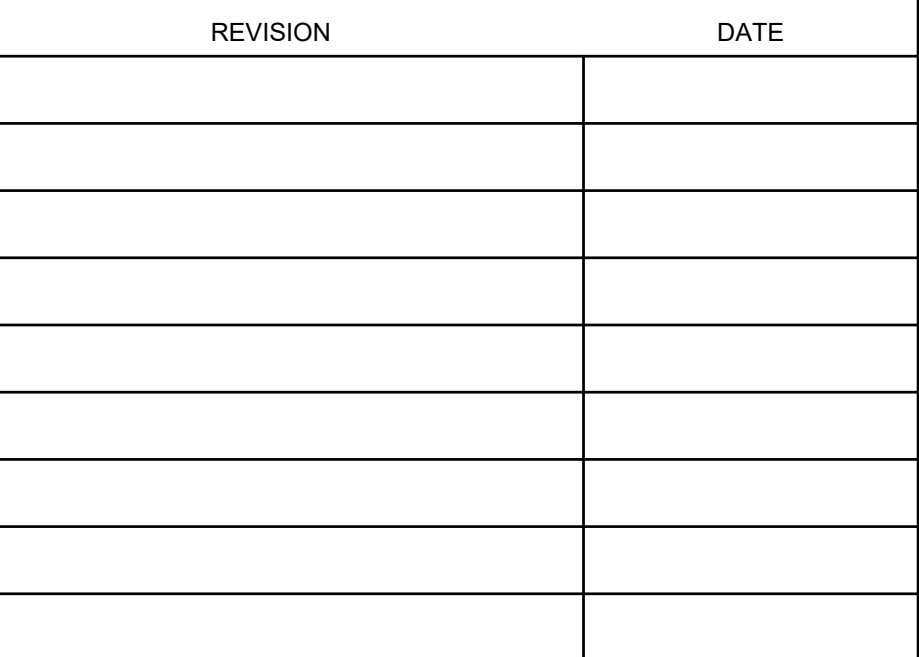
RICHMOND COUNTY BOARD OF EDUCATION

RCBOE #

FACILITY CODE 721-0103

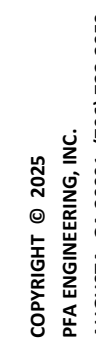
345 42ND STREET

FORT GORDON, GA 30905



DRAWN BY WDP	CHECKED BY JMF	DATE 11/10/25
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FILE NUMBER	SHEET
21117	M1.5



FREEDOM PARK K-8 SCHOOL HVAC PROJECT

PROJECT NO. B-21-024-0103.2
FOR
RICHMOND COUNTY BOARD OF EDUCATION

RCBOE #
FACILITY CODE 721-0103
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REVISION	DATE

SHEET TITLE:
**HVAC NEW WORK PLAN -
ADMIN AREA**

DRAWN BY: WDP
CHECKED BY: JMF
DATE: 11/10/25

FILE NUMBER: 21117
SHEET: M2.1

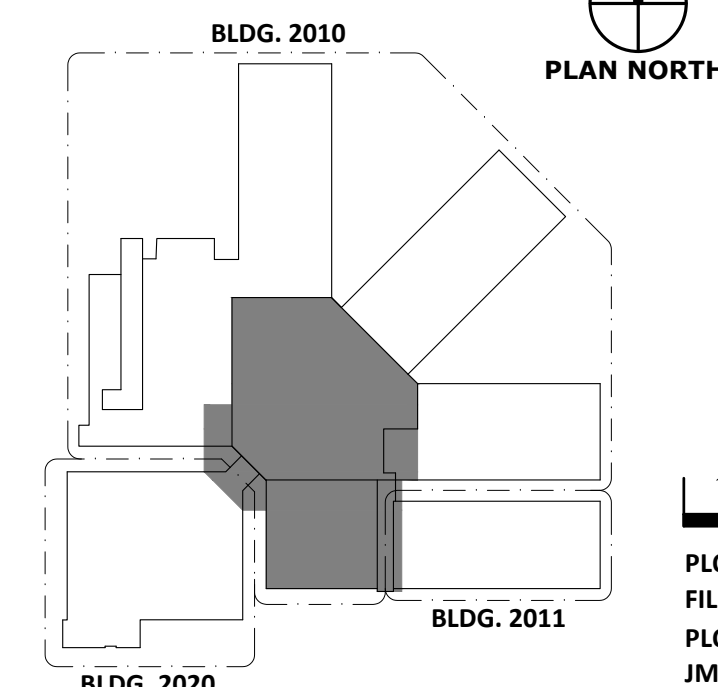
KEY NOTES (THIS SHEET ONLY):

- 1 MOUNT NEW ERU ON EXISTING ROOF CURB WITH ADAPTOR AS SHOWN. (TYP. FOR ERU-D1, ERU-E1 & ERU-F1.)
- 2 TRANSITION NEW TO EXISTING DUCTWORK INSIDE BUILDING. (FOR ERU-D1, ERU-E1 & ERU-F1 SUPPLY AND EXHAUST DUCTWORK.) REMOVE AND REPLACE CEILINGS AS REQUIRED TO ACCOMPLISH WORK.
- 3 TRANSITION NEW TO EXISTING DUCTWORK UNDER ROOF. WHERE RETURN DUCT PENETRATES ROOF THROUGH ROOF CURB, CONNECT NEW TO EXISTING BELOW ROOF CURB. (FOR RTU-C1, RTU-G1 & RTU-MC1 SUPPLY AND RETURN DUCTWORK.) REMOVE AND REPLACE CEILINGS AS REQUIRED TO ACCOMPLISH WORK.
- 4 MOUNT NEW WALL CASSETTE IN EXISTING LOCATION AND CONNECT TO EXISTING REFRIGERANT AND DRAIN PIPING. ENSURE THAT EXISTING CONDENSATE DRAIN LINE IS CLEAR OF OBSTRUCTIONS.
- 5 MOUNT NEW ROOFTOP UNIT ON EXISTING ROOF CURB USING CURB ADAPTOR.

ALL ROOF CURB ADAPTORS SHALL BE SIZED TO EXTEND 8" MINIMUM ABOVE ROOF SURFACE. COORDINATE WITH EXISTING CONDITIONS.

SEE ROOF PLAN M2.5 FOR ADDITIONAL INFORMATION.

KEY PLAN:



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

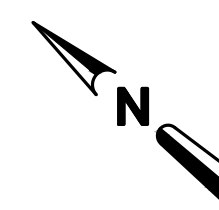
PLOT DATE: 11/13/25
FILENAME: 21117M2
PLOT SCALE: 1" = 96"
JMF/WDP

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706/722-3959

HVAC NEW WORK PLAN - ADMINISTRATION AREA

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

BLDG. 2010



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PROJECT NO. B-21-024-0103.2

FOR
RICHMOND COUNTY BOARD OF EDUCATION

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FACILITY CODE 721-0103

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REVISION	DATE

SHEET TITLE: HVAC NEW WORK PLAN - WING C

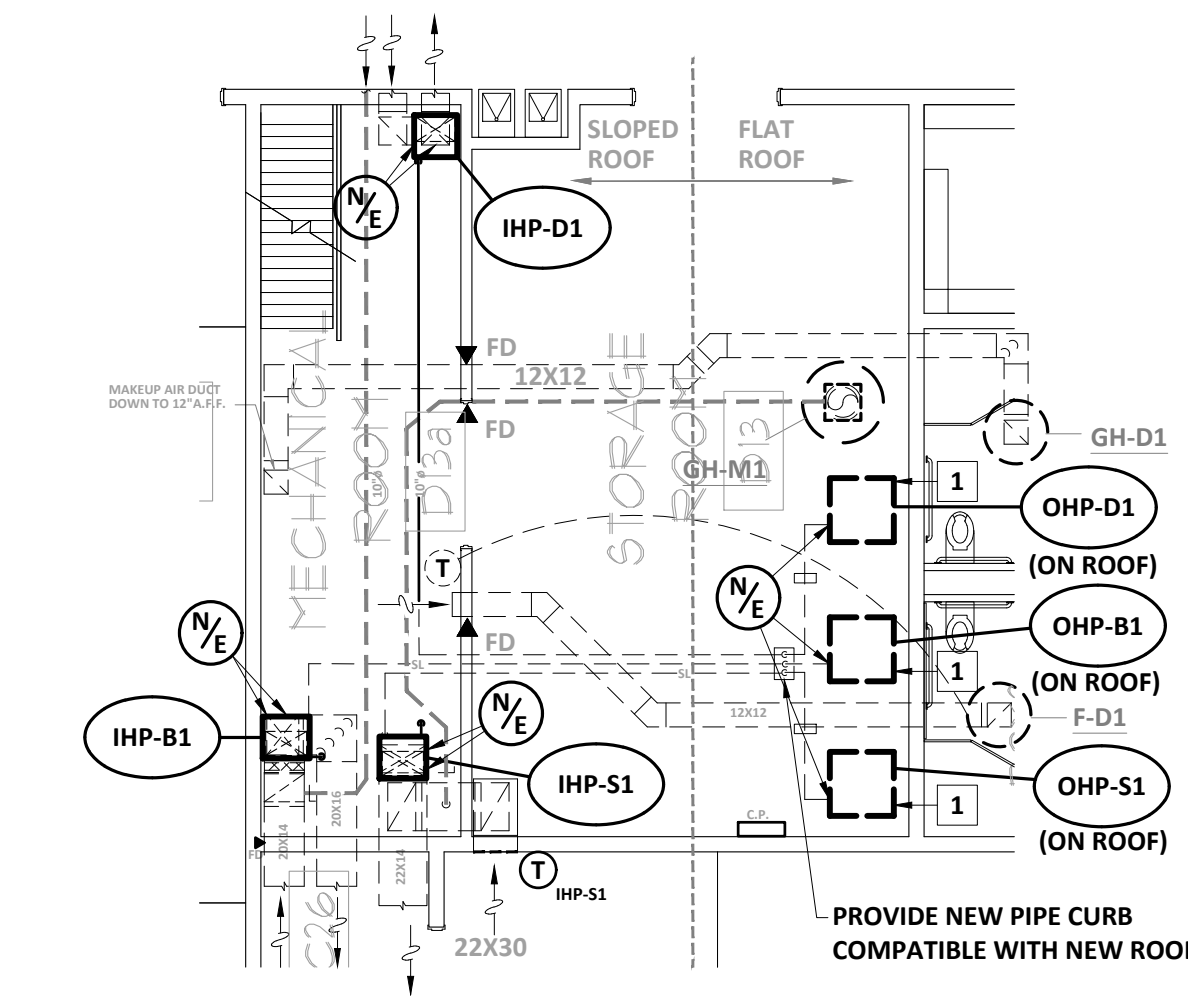
DRAWN BY: WDP CHECKED BY: JMF DATE: 11/10/25

FILE NUMBER

21117

SHEET

M2.2

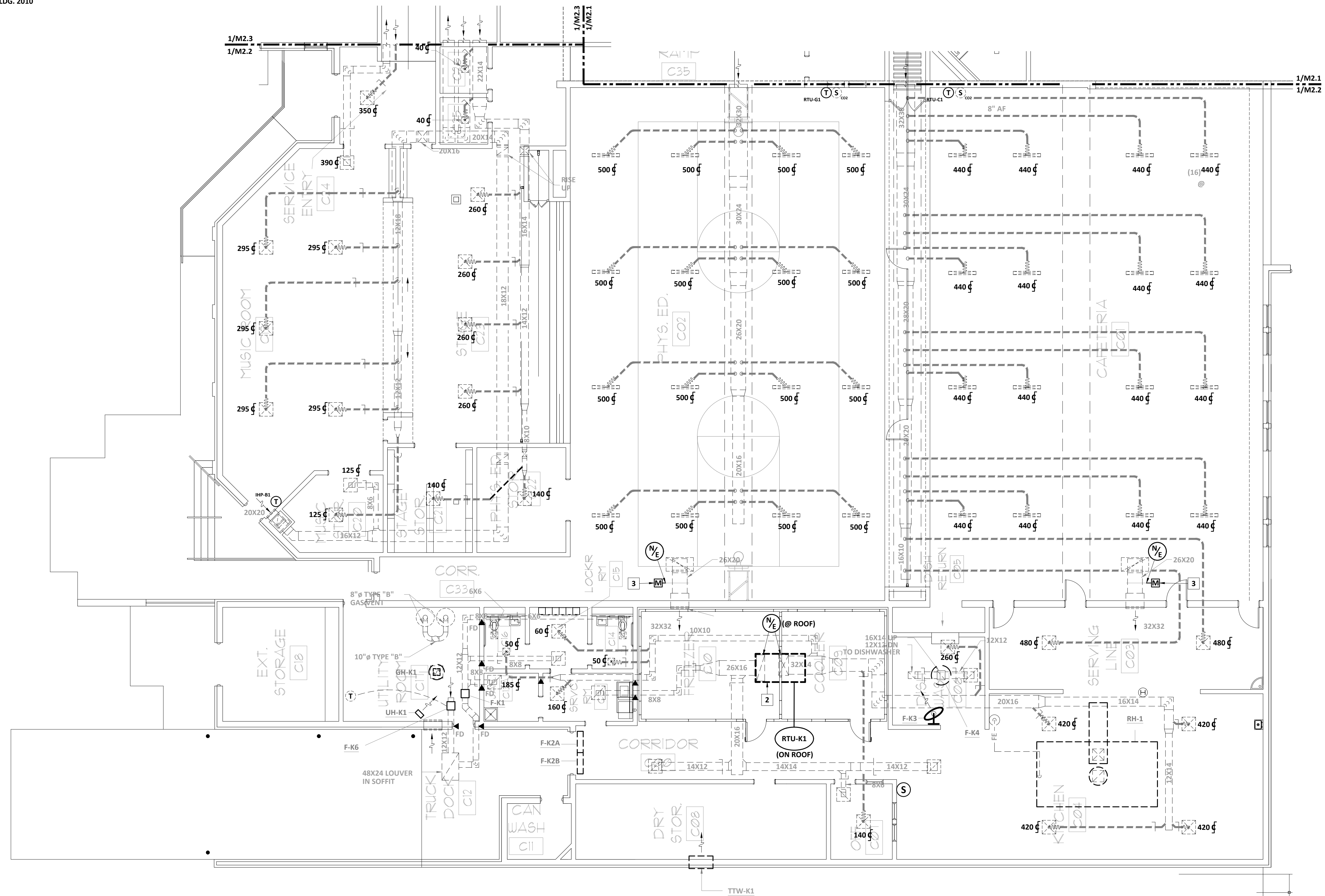


**HVAC NEW WORK
PLAN - MECHANICAL ROOM D13a**
SCALE: 1/4" = 1'-0" BLDG. 2010

KEY NOTES (THIS SHEET ONLY):

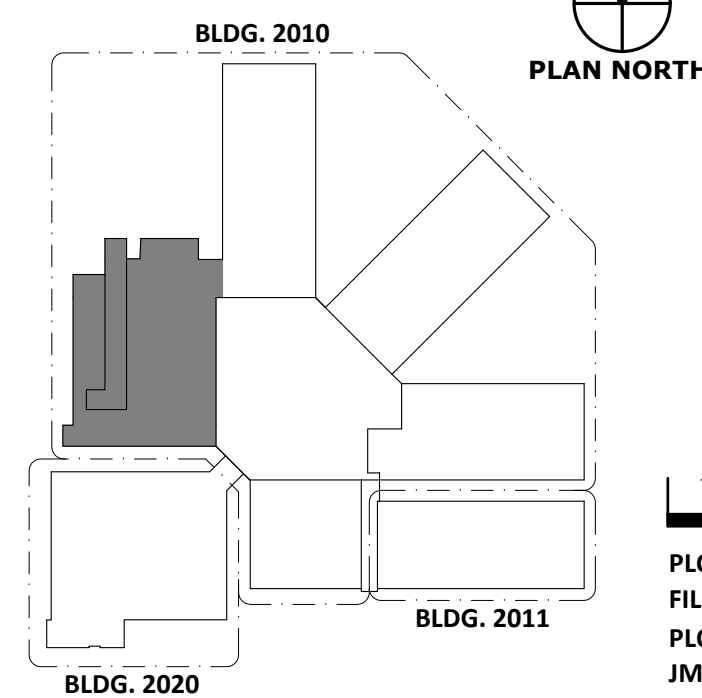
- 1 MOUNT NEW OHP ON EXISTING ROOFTOP SUPPORT.
- 2 MOUNT NEW RTU ON EXISTING ROOF CURB WITH ADAPTOR.
- 3 INSTALL NEW DAMPER ACTUATOR ON RELIEF DAMPER AND CONTROL AS DESCRIBED IN SEQUENCE OF OPERATION.

ALL ROOF CURB ADAPTORS SHALL BE SIZED TO EXTEND 8" MINIMUM ABOVE ROOF SURFACE. COORDINATE WITH EXISTING CONDITIONS.



HVAC NEW WORK PLAN - WING C
SCALE: 1/8" = 1'-0" BLDG. 2010

KEY PLAN:



PLOT DATE: 11/13/25
FILENAME: 21117M2
PLOT SCALE: 1" = 96'
JMF/WDP

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PROJECT NO. B-21-024-0103.2

FOR
RICHMOND COUNTY BOARD OF EDUCATION

RCBOE #
FACILITY CODE 721-0103

345 42ND STREET
FORT GORDON, GA 30905



REVISION	DATE

SHEET TITLE:
**HVAC NEW WORK
PLAN - WINGS D & E**

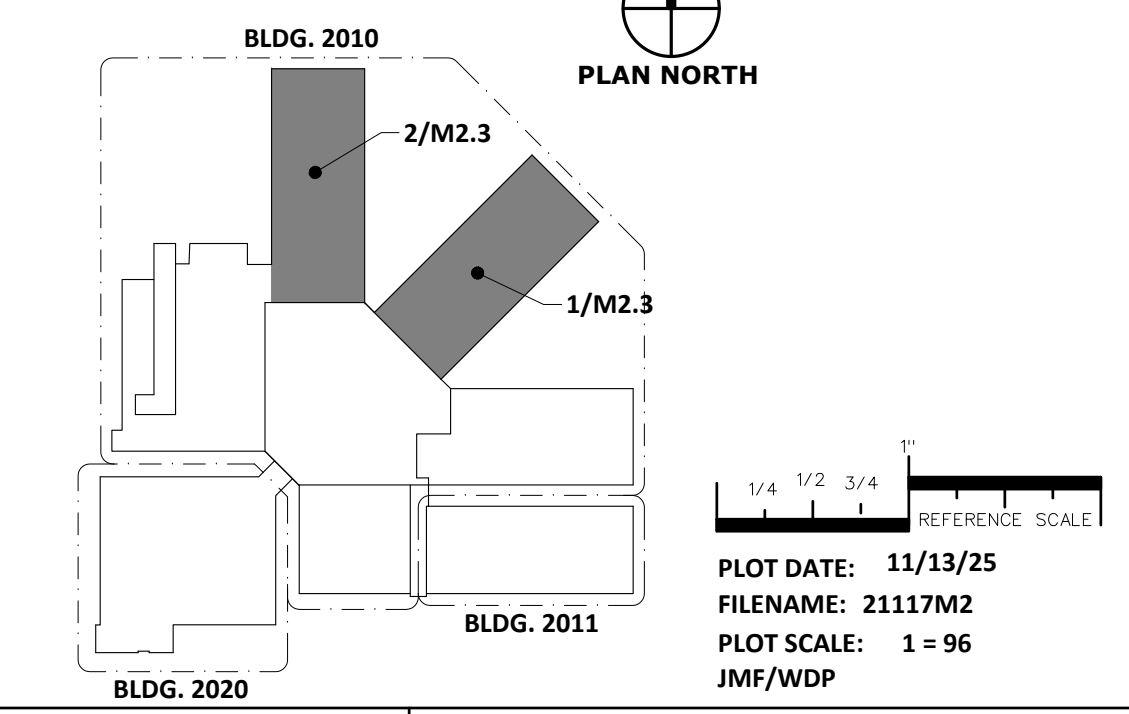
DRAWN BY: WDP
CHECKED BY: JMF
DATE: 11/10/25

FILE NUMBER: 21117
SHEET: M2.3

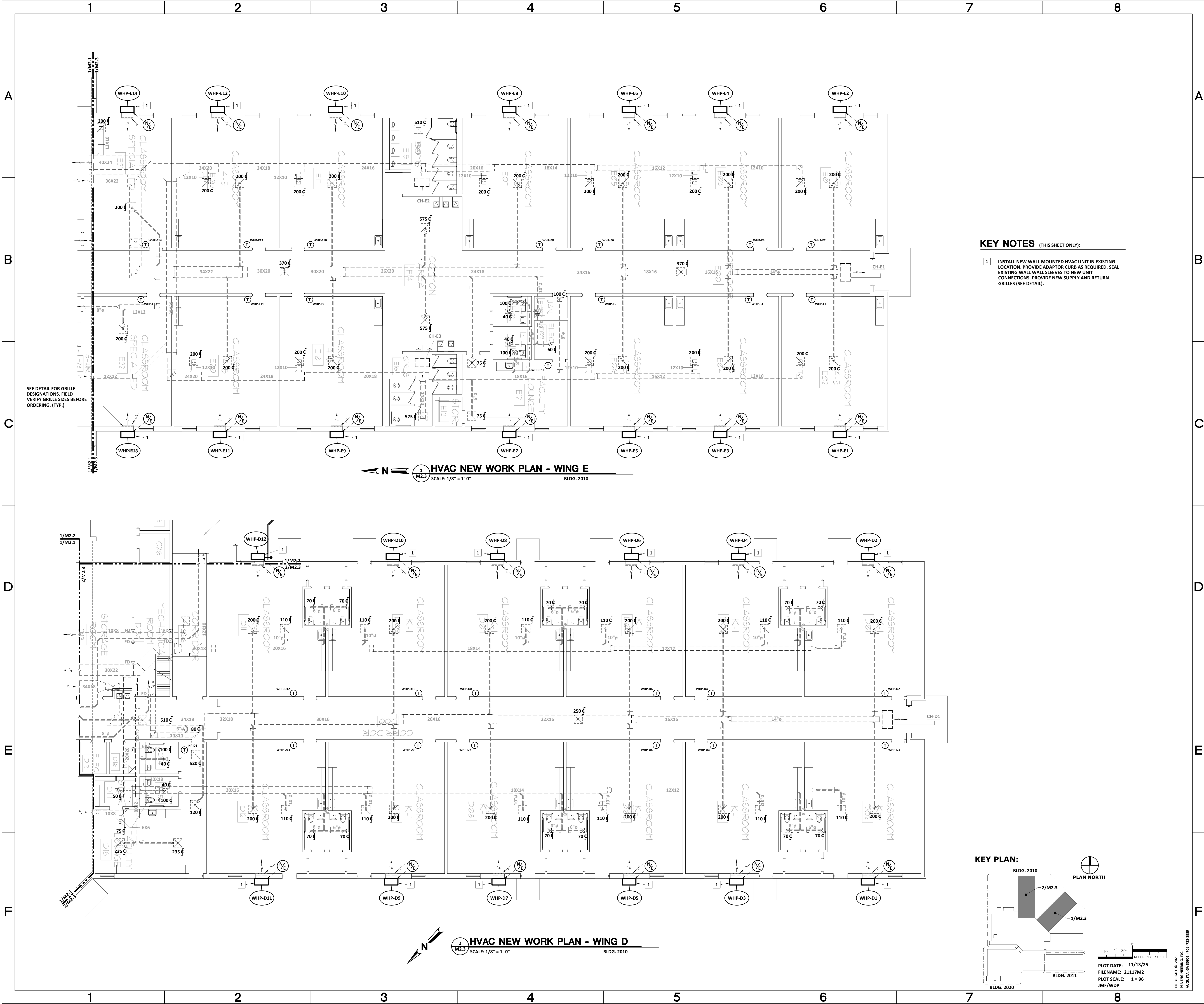
KEY NOTES (THIS SHEET ONLY):

1. INSTALL NEW WALL MOUNTED HVAC UNIT IN EXISTING LOCATION. PROVIDE ADAPTOR CURB AS REQUIRED. SEAL EXISTING WALL WALL SLEEVES TO NEW UNIT CONNECTIONS. PROVIDE NEW SUPPLY AND RETURN GRILLES (SEE DETAIL).

KEY PLAN:



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FACILITY CODE 721-0103

345 42ND STREET
FORT GORDON, GA 30905



REVISION	DATE

SHEET TITLE:
**HVAC NEW WORK
PLAN - WINGS F & G**

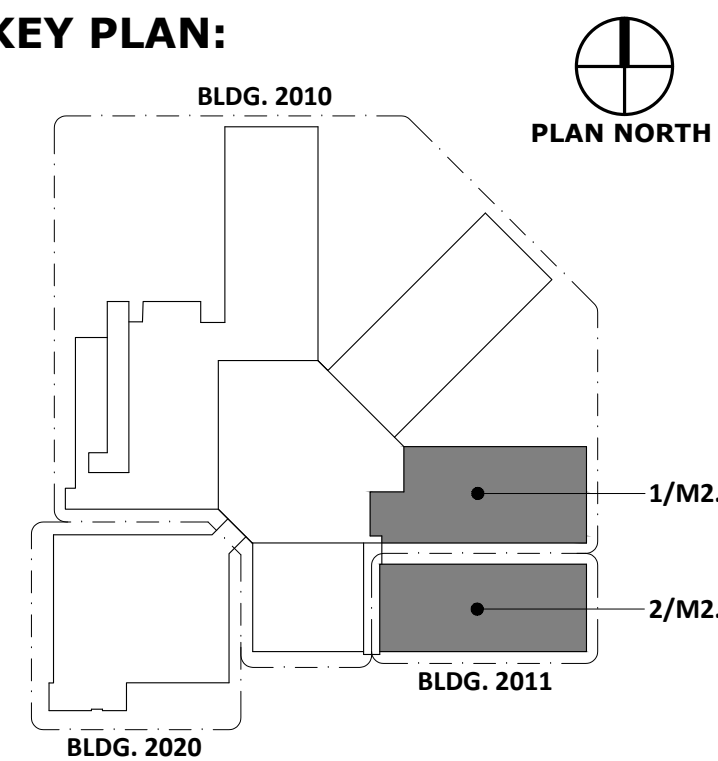
DRAWN BY WDP	CHECKED BY JMF	DATE 11/10/25
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FILE NUMBER 21117	SHEET M2.4
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KEY NOTES (THIS SHEET ONLY):

1. INSTALL NEW WALL MOUNTED HVAC UNIT IN EXISTING LOCATION. PROVIDE ADAPTOR CURB AS REQUIRED. SEAL EXISTING WALL WALL SLEEVES TO NEW UNIT CONNECTIONS. PROVIDE NEW SUPPLY AND RETURN GRILLES (SEE DETAIL).
2. INSTALL NEW INDOOR HVAC UNIT IN EXISTING LOCATION. MODIFY EXISTING WALL OPENING AND SLEEVE AS NECESSARY TO ACCOMMODATE NEW UNIT DIMENSIONS, INCLUDING NEW UNITS IF REQUIRED. INSTALL NEW EXTERIOR LOUVER FURNISHED BY UNIT MANUFACTURER. ROUTE CONDENSATE DRAIN AS EXISTING. FOLLOW MANUFACTURER'S INSTRUCTIONS.
3. MOUNT NEW THERMOSTAT AS INDICATED. PROVIDE SURFACE RACEWAY. COLOR SHALL BE APPROVED BY OWNER.
4. REPAIR DAMAGE TO EXISTING FLOORING AS REQUIRED TO MATCH ADJACENT FLOOR.

KEY PLAN:



PLOT DATE: 11/13/25
FILENAME: 21117M2
PLOT SCALE: 1" = 96'
JMF/WDP

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1 2 3 4 5 6 7 8

A

B

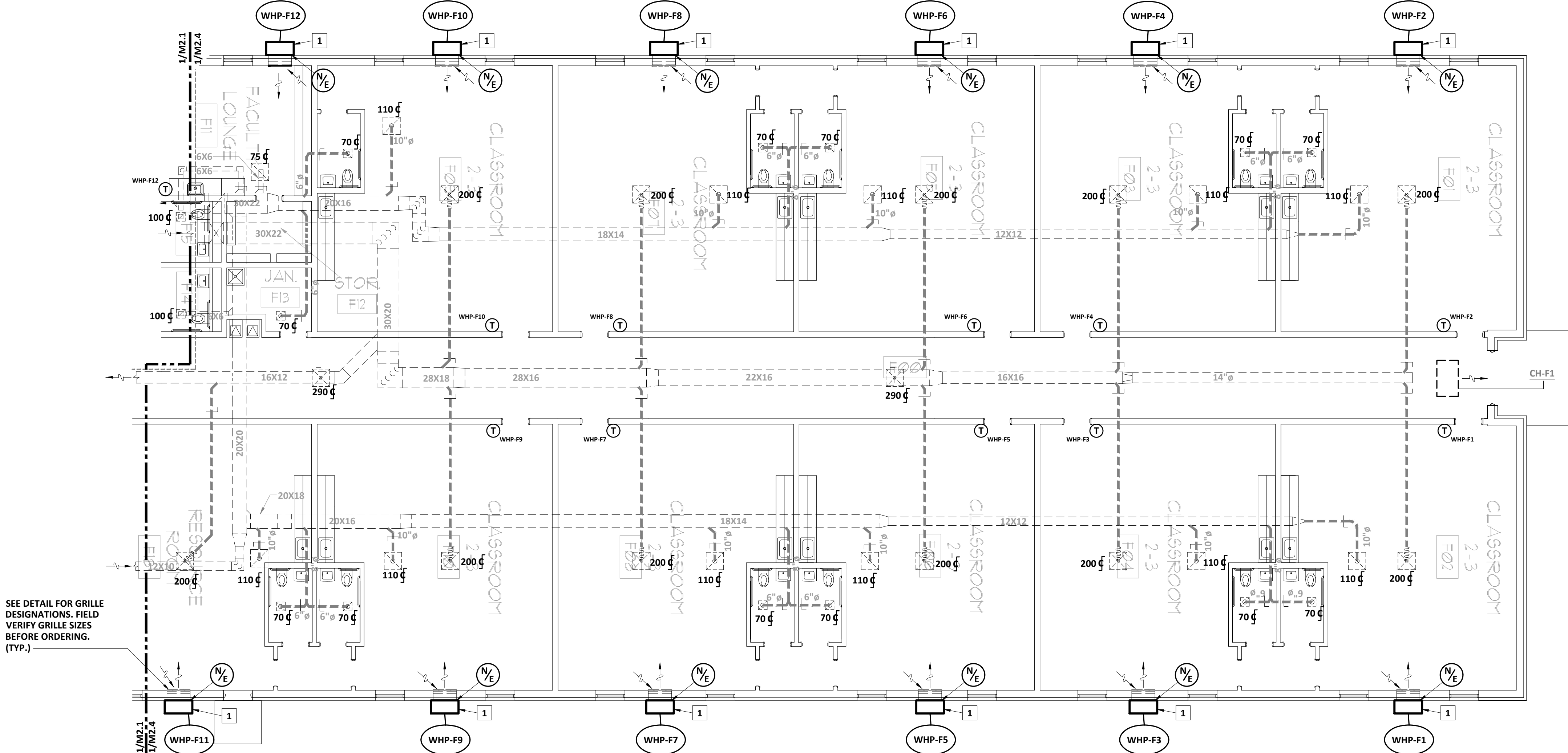
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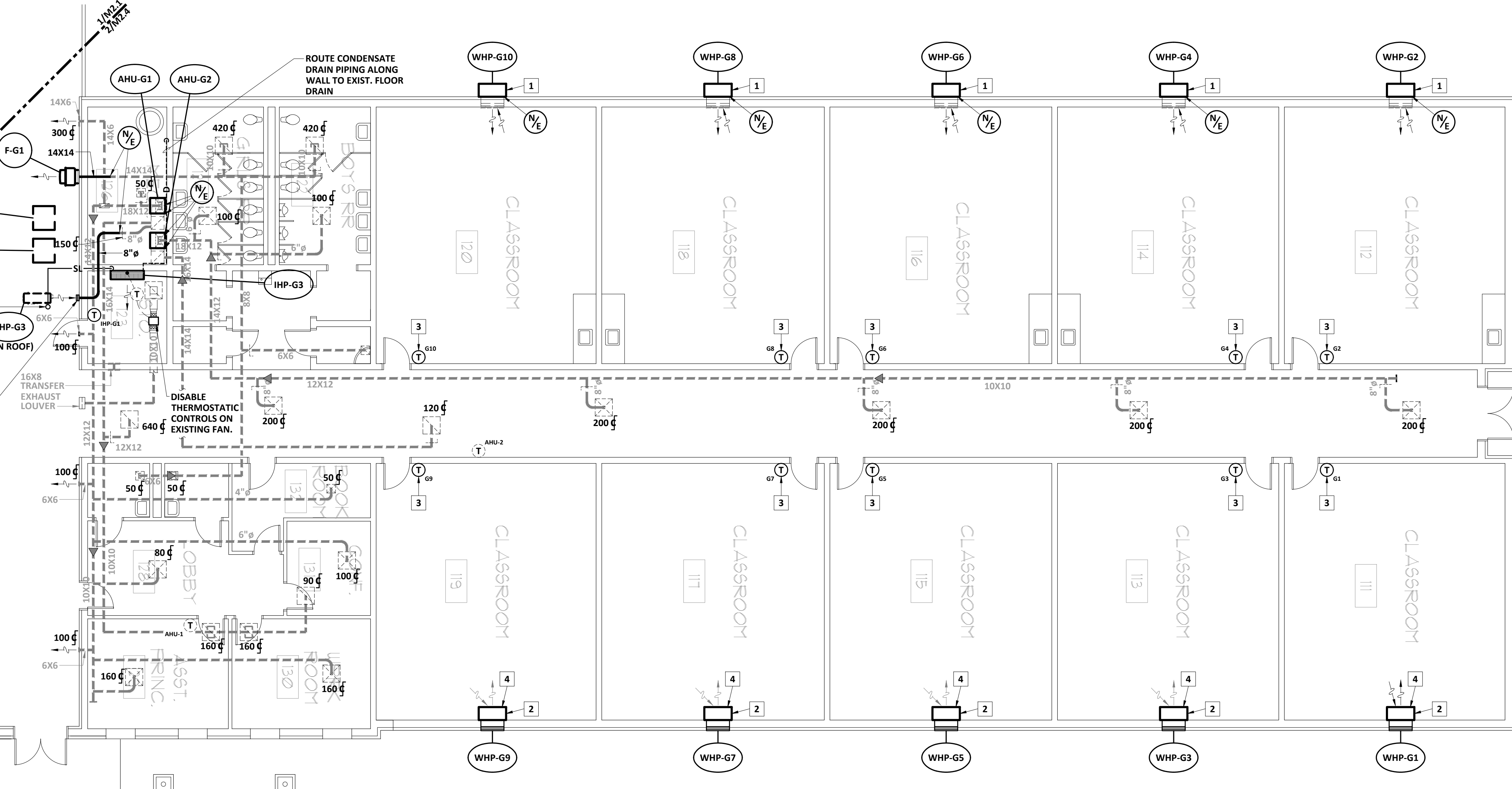
E

F

1 2 3 4 5 6 7 8



HVAC NEW WORK PLAN - WING F
SCALE: 1/8" = 1'-0"
BLDG. 2010



HVAC NEW WORK PLAN - WING G
SCALE: 1/8" = 1'-0"
BLDG. 2011

SEE DETAIL FOR GRILLE
DESIGNATIONS. FIELD
VERIFY GRILLE SIZES
BEFORE ORDERING.
(TYP.)

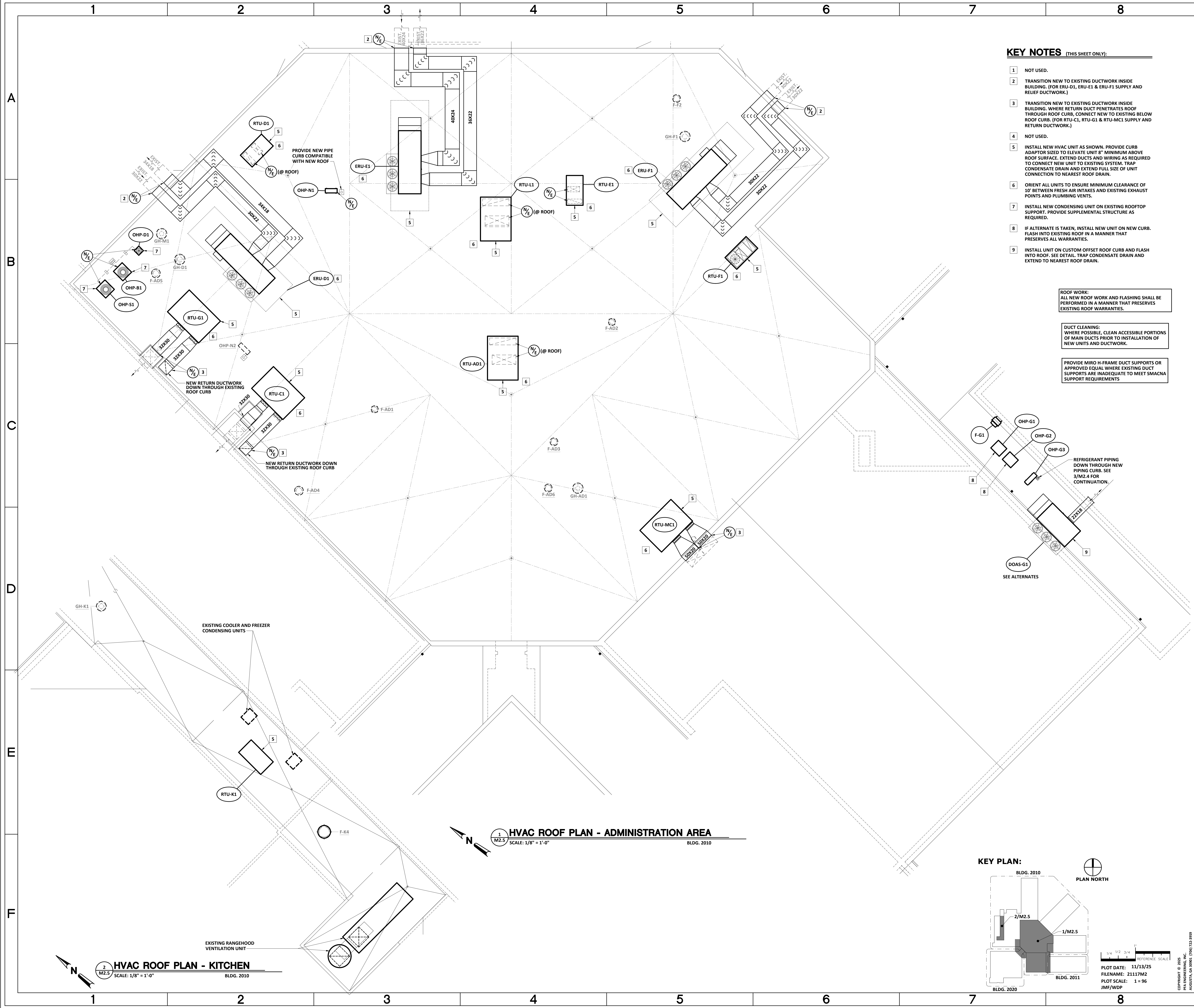
REFRIGERANT PIPING
UP THROUGH ROOF
CURB. SEE 1/M2.3
FOR CONTINUATION.

8" HOODED WALL CAP
INTAKE. MAINTAIN
MINIMUM CLEARANCE
TO EXHAUST FAN.

16X8 TRANSFER
EXHAUST
LOUVER

DISABLE
THERMOSTATIC
CONTROLS ON
EXISTING FAN.

ROUTE CONDENSATE
DRAIN PIPING ALONG
WALL TO EXIST. FLOOR
DRAIN



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FREEDOM PARK
K-8 SCHOOL
HVAC PROJECT

PROJECT NO. B-21-024-0103.2
FOR
RICHMOND COUNTY BOARD OF EDUCATION
RCBOE #
FACILITY CODE 721-0103
345 42ND STREET
FORT GORDON, GA 30905



REVISION	DATE

SHEET TITLE:
HVAC NEW WORK
PLAN - ROOF

DRAWN BY WDP	CHECKED BY JMF	DATE 11/10/25
FILE NUMBER 21117	SHEET M2.5	

FREEDOM PARK K-8 SCHOOL HVAC PROJECT

PROJECT NO. B-21-024-0103.2
FOR
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FORT GORDON, GA 30905



REVISION	DATE

SHEET TITLE:
**HVAC PLANS - ADD
ALTERNATE WING G**

DRAWN BY: WDP CHECKED BY: JMF DATE: 11/10/25

FILE NUMBER: 21117 SHEET: **M2.6**

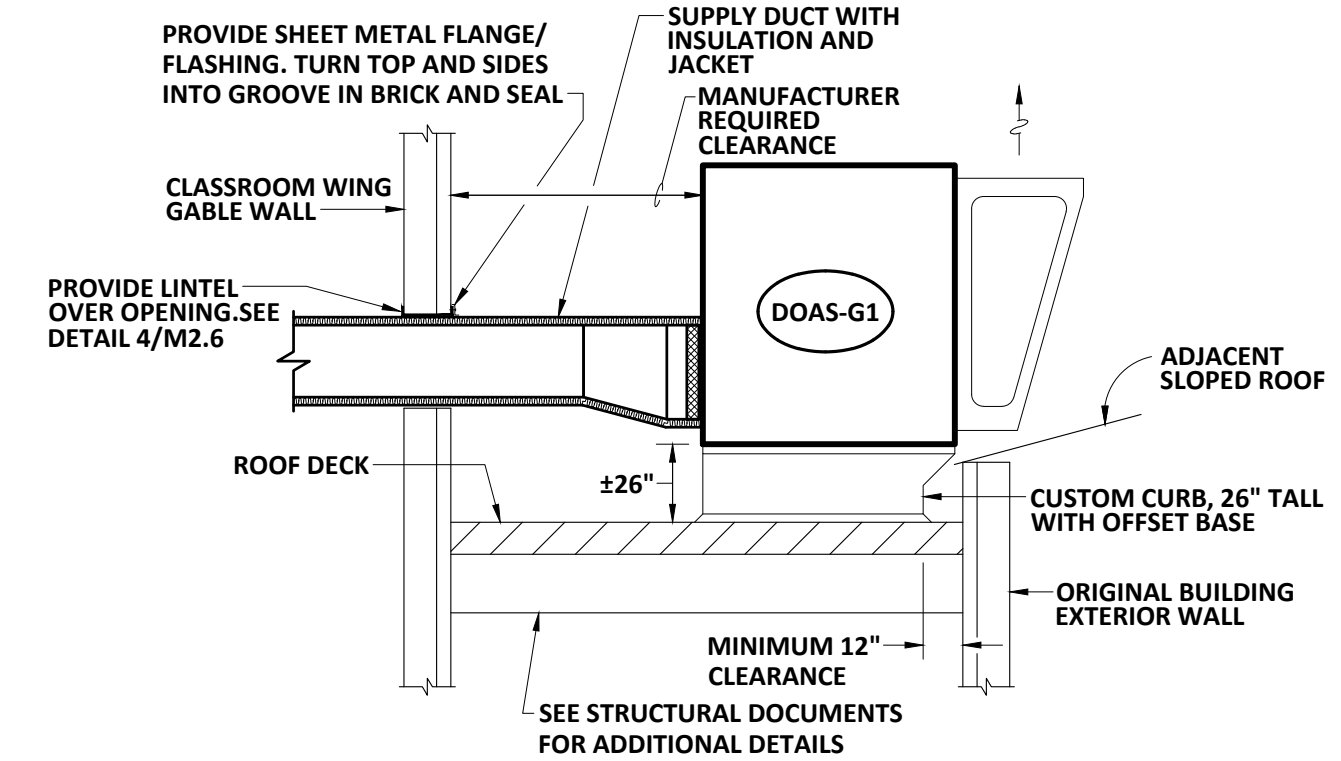
DEMOLITION NOTES (THIS SHEET ONLY):

- DEMOLISH EXISTING WALL-MOUNT HEAT PUMP AND ASSOCIATED CONTROLS. REPLACE WITH NEW HEAT PUMP AS SHOWN ON NEW WORK PLANS. WHERE THERMOSTAT IS TO BE INSTALLED IN NEW LOCATION, PROVIDE COVER PLATE IN OLD LOCATION.
- NOT USED.
- DEMOLISH AND REMOVE EXISTING ENERGY RECOVERY VENTILATOR AND ASSOCIATED DUCT AS INDICATED. REPAIR OPENING IN EXISTING GABLE WALL TO MATCH ADJACENT SURFACE. PROVIDE SHEET METAL CAP ON EXISTING ROOF CURB. SEE DETAIL.
- DEMOLISH AND REMOVE EXISTING OUTDOOR HEAT PUMP, INDOOR HEAT PUMP, AND ASSOCIATED PIPING AND CONTROLS.

GENERAL DEMOLITION NOTES:

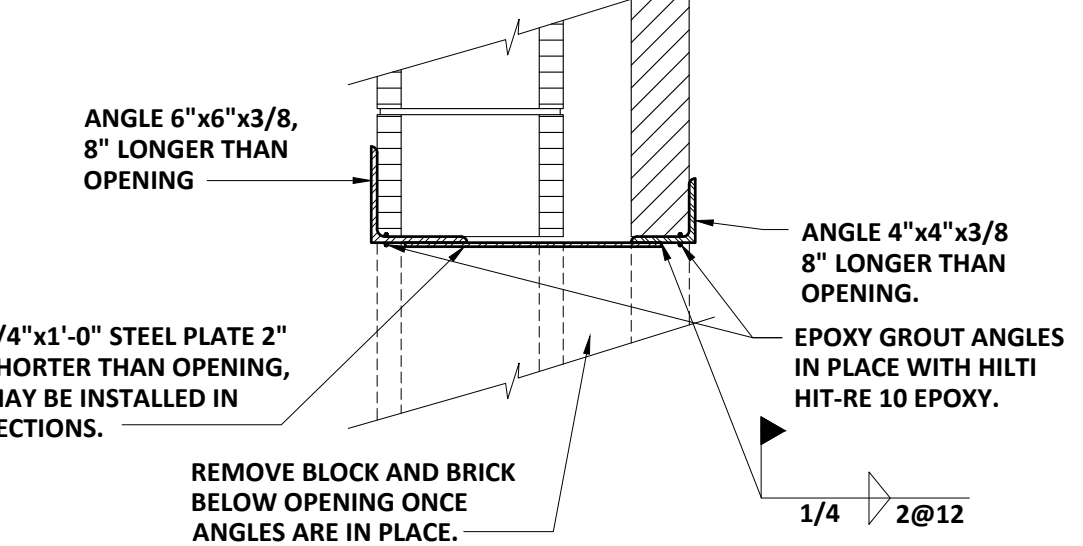
TURN ALL CONTROL DEVICES REMOVED DURING DEMOLITION OVER TO OWNER.

CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REPAIR/REPLACEMENT WHERE MECHANICAL WORK IS ABOVE EXISTING CEILINGS. WHERE EXISTING CEILING TILES OR GRID ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED WITH NEW MATERIALS OF SIMILAR COLOR AND STYLE. CONTRACTOR SHALL SURVEY AND DOCUMENT THE EXISTING CONDITIONS WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION.



3 DETAIL @ DOAS-G1
M2.6 NOT TO SCALE

MAXIMUM OPENING WIDTH: 6'. IF TWO LINTELS ARE USED IN LIEU OF A CONTINUOUS LINTEL, MAINTAIN 12" BETWEEN OPENINGS.



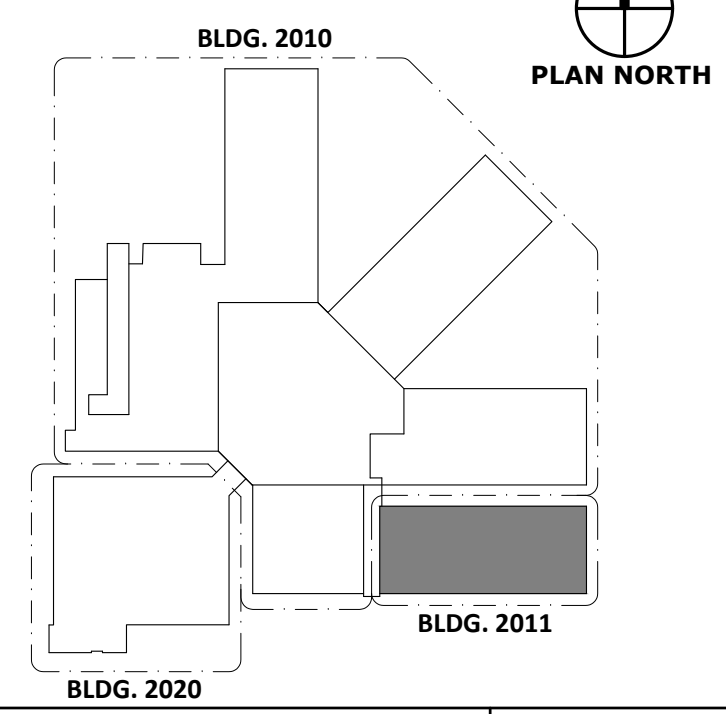
- CONSTRUCTION SEQUENCE:**
- SAWCUT EXISTING CMU GROUT JOINT ON INSIDE OF WALL FOR INSTALLATION OF 6"x6" ANGLE. NOTCH EDGE OF CMU SO ANGLE SITS FLUSH TO WALL.
 - INSTALL AND EPOXY GROUT 6"x6" ANGLE IN PLACE.
 - SAWCUT EXISTING BRICK GROUT JOINT FOR INSTALLATION OF 4"x4" ANGLE. NOTCH EDGE OF BRICK SO ANGLE SITS FLUSH TO WALL.
 - INSTALL AND EPOXY GROUT 4"x4" ANGLE IN PLACE.
 - REMOVE BLOCK AND BRICK BELOW LINTEL.
 - INSTALL 1/4" STEEL PLATE.

4 LINTEL DETAIL
M2.6 NOT TO SCALE

KEY NOTES (THIS SHEET ONLY):

- INSTALL NEW WALL MOUNTED HVAC UNIT IN EXISTING LOCATION. PROVIDE ADAPTOR CURB AS REQUIRED. SEAL EXISTING WALL WALL SLEEVES TO NEW UNIT CONNECTIONS. PROVIDE NEW SUPPLY AND RETURN GRILLES (SEE DETAIL).
- INSTALL NEW INDOOR HVAC UNIT IN EXISTING LOCATION. MODIFY EXISTING WALL OPENING AND SLEEVE AS NECESSARY TO ACCOMMODATE NEW UNIT DIMENSIONS, INCLUDING NEW LINTELS IF REQUIRED. INSTALL NEW EXTERIOR LOUVER FURNISHED BY UNIT MANUFACTURER. ROUTE CONDENSATE DRAIN AS EXISTING. FOLLOW MANUFACTURER'S INSTRUCTIONS.
- MOUNT NEW THERMOSTAT AS INDICATED. PROVIDE SURFACE RACEWAY. COLOR SHALL BE APPROVED BY OWNER.
- REPAIR DAMAGE TO EXISTING FLOORING AS REQUIRED TO MATCH ADJACENT FLOOR.
- PROVIDE NEW LINTEL AT GABLE WALL PENETRATION. SEE DETAIL.
- MOUNT NEW UNIT ON CUSTOM OFFSET ROOF CURB AND FLASH INTO EXISTING ROOF. SEE DETAIL.

KEY PLAN:



PLOT DATE: 11/13/25
FILENAME: 21117M2
PLOT SCALE: 1"=96'
JMF/WDP

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1 HVAC DEMOLITION PLAN - ADD ALTERNATE WING G

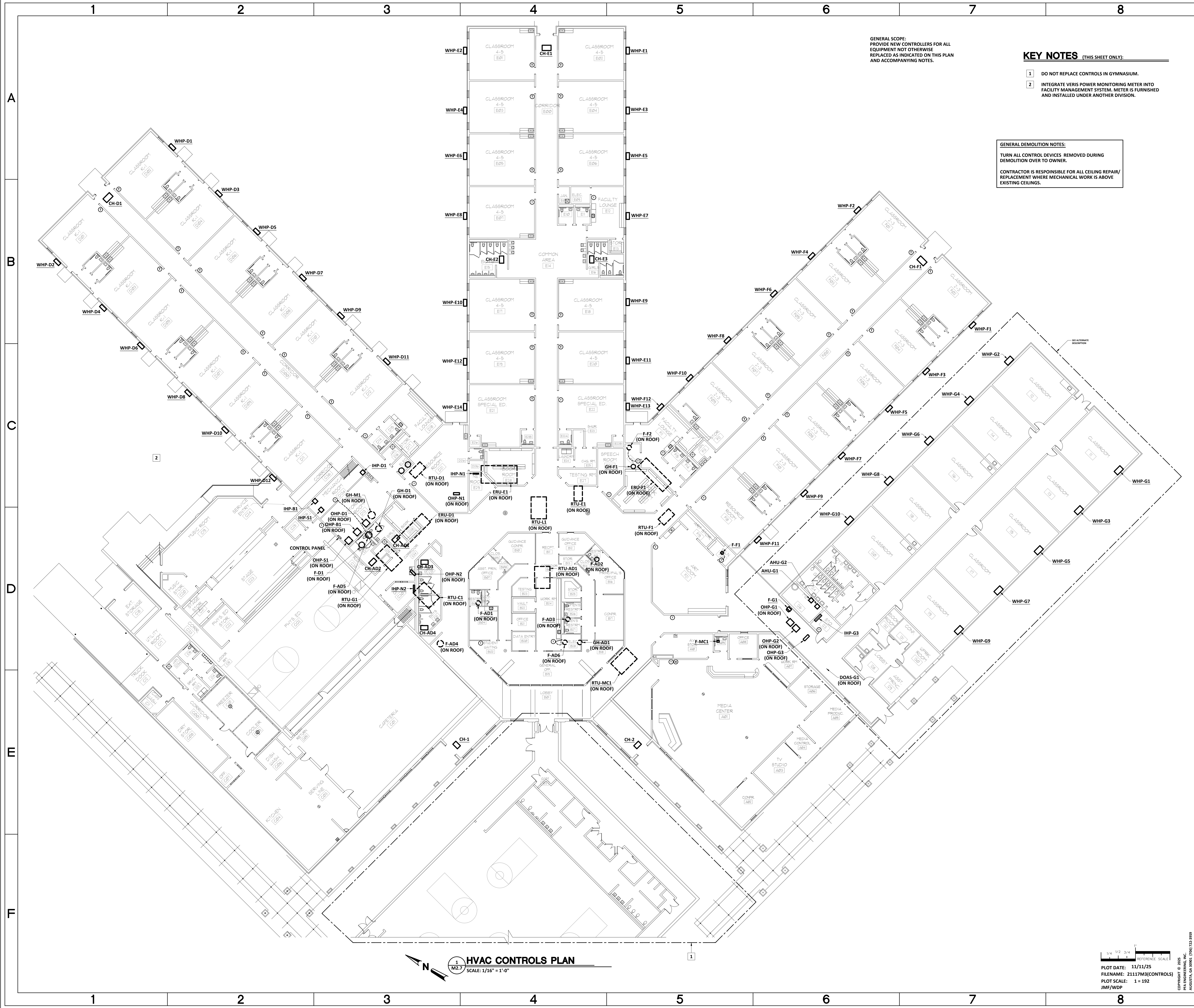
M2.6 SCALE: 1/8" = 1'-0"

BLDG. 2011

2 HVAC NEW WORK PLAN - ADD ALTERNATE WING G

M2.6 SCALE: 1/8" = 1'-0"

BLDG. 2011



GENERAL SCOPE:
PROVIDE NEW CONTROLLERS FOR ALL
EQUIPMENT NOT OTHERWISE
REPLACED AS INDICATED ON THIS PLAN
AND ACCOMPANYING NOTES.

KEY NOTES (THIS SHEET ONLY):

- 1 DO NOT REPLACE CONTROLS IN GYMNASIUM.
- 2 INTEGRATE VERIS POWER MONITORING METER INTO FACILITY MANAGEMENT SYSTEM. METER IS FURNISHED AND INSTALLED UNDER ANOTHER DIVISION.

GENERAL DEMOLITION NOTES:

TURN ALL CONTROL DEVICES REMOVED DURING DEMOLITION OVER TO OWNER.
CONTRACTOR IS RESPONSIBLE FOR ALL CEILING REPAIR/ REPLACEMENT WHERE MECHANICAL WORK IS ABOVE EXISTING CEILINGS.



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FREEDOM PARK
K-8 SCHOOL
HVAC PROJECT

PROJECT NO. B-21-024-0103.2
FOR
RICHMOND COUNTY BOARD OF EDUCATION
RCBOE #
FACILITY CODE 721-0103
345 42ND STREET
FORT GORDON, GA 30905



REVISION	DATE

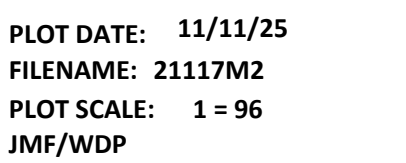
SHEET TITLE:
HVAC CONTROLS PLAN

DRAWN BY WDP	CHECKED BY JMF	DATE 11/10/25
FILE NUMBER 21117	SHEET M2.7	

HVAC CONTROLS PLAN
SCALE: 1/16" = 1'-0"

1/4" 1/2" 3/4" 1" REFERENCE SCALE
PLOT DATE: 11/11/25
FILENAME: 21117M3(CONTROLS)
PLOT SCALE: 1" = 152'
JMF/WDP

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E1.0

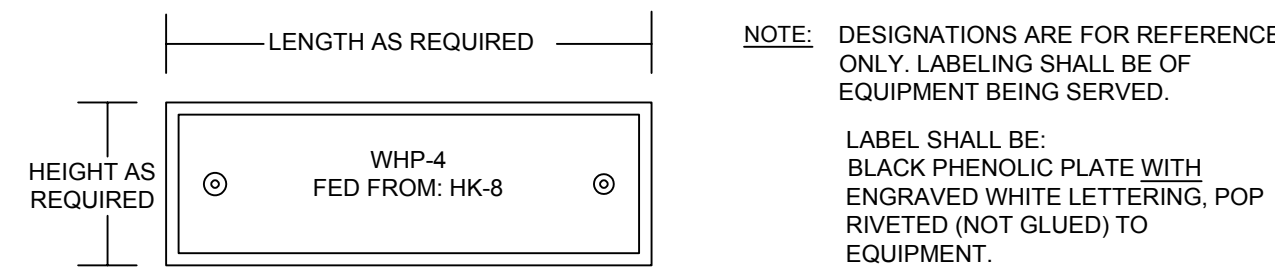
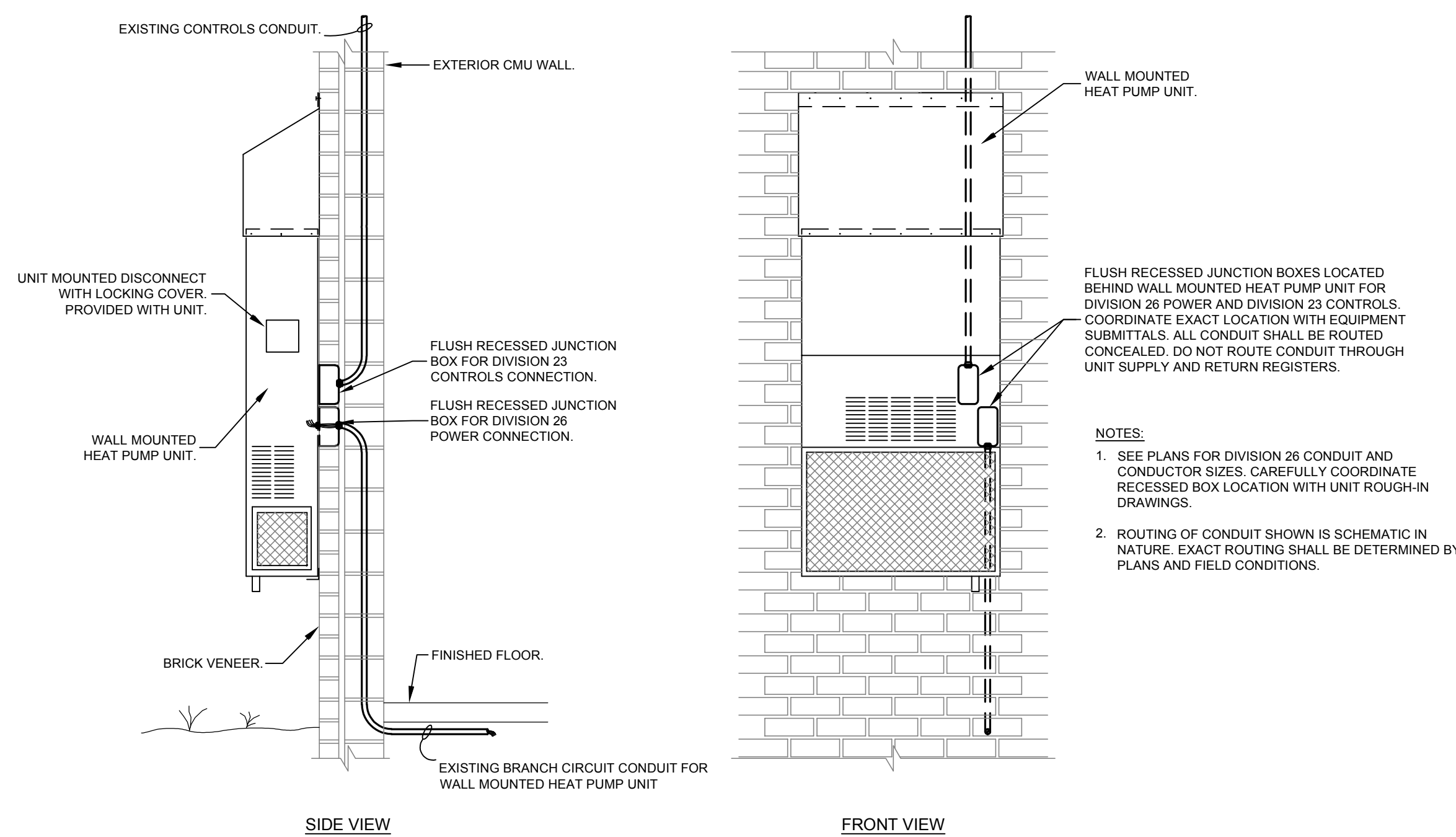
2. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
3. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
4. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
5.

112

 SYMBOL INDICATING ROOM OR SPACE NUMBER.
6. ALL CONDUIT ROUTED FROM DISCONNECT TO EXTERIOR HVAC UNITS SHALL BE PROTECTED BY CONDUIT RACEWAYS. CONDUIT SHALL BE GRADED AND MAKE TRANSITION TO SEALTITE TO SERVE UNIT. CONDUIT SHALL BE GRADED CONCEALED IN WALL. SEE DETAIL.
7. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314.20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
8. ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SURT NOT ACCEPTABLE.
9. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
10. PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. PROVIDE NEW TYPEWRITTEN PANEL BOARD DIRECTIONS REFLECTING ANY CHANGES MADE TO PANEL. TYPEWRITTEN PANELBOARD DIRECTIONS SHALL REFLECT SPACE DESIGNATION AND DESCRIPTION OF EACH CIRCUIT, NO EXCEPTIONS.
11. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS WITH ID TAG INDICATING TERMINATION LOCATION LABEL AT EACH END.
12. DIVISION 26 CONTRACTOR SHALL WARRANTY ALL EQUIPMENT AND INSTALLATION OF SUCH FOR (TWO)(2) YEARS FROM DATE OF PROJECT ACCEPTANCE. WARRANTY APPLIES TO ENTIRE DIVISION 26 SCOPE.
13. REFER TO SPECIFICATIONS ALONG WITH DETAIL PER THIS SHEET FOR LABELING OF ALL JUNCTION BOX COVERS AS WELL AS ID. TAGS FOR DISCONNECTS AND PANELBOARDS.
14. CONTRACTOR IS TO NOTE LOCATIONS OF ALL EXISTING FIRE WALLS. FIRESTOP ALL CONDUIT PENETRATIONS ACCORDINGLY.
15. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR COMPLETE SCOPE.
16. COORDINATE ELECTRICAL WITH ARCHITECTURAL/MECHANICAL, DETAIL, FLOOR PLANS, ELEVATIONS AND STRUCTURAL DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET ALL CONDITIONS.
17. WHERE CONDUIT RUNS ARE EXPOSED IN AN AREA WITHOUT GELING, CONDUIT RUN GOING DOWN TO A WALL SHALL BE CONCEALED WHERE POSSIBLE.
18. WHERE CONDUIT RUNS ARE EXPOSED ON THE EXTERIOR, CONDUIT SHALL BE TYPE "GRS" AND PAINTED TO MATCH EXTERIOR COLOR.

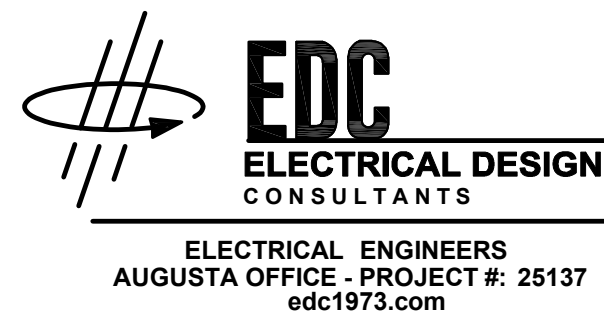
1. THE CONTRACTOR SHALL FIELD VERIFY EXIST ROUTINGS OF EXISTING REACEWAYS BEFORE STARTING ANY WORK AND NOTIFY THE ARCHITECT OF ANY KNOWN DISCREPANCIES
2. THE CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AND OVERHEADS ON NEW OR EXISTING RACEWAYS AS REQUIRED TO COMPLETE REWIRING CIRCUITS AND TO CONFORM TO N.E.C.
3. ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER.
4. MAINTAIN SERVICE TO ALL EXISTING CIRCUITS AND NOT BE SCHEDULED FROM REMOVAL.
5. PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
6. EXISTING CEILING, WALLS AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATIONS SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
7. EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.
8. TO MAINTAIN SERVICE, TO EXTEND, OR TO RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE MOUNT RACEWAY (WIPEMOLD) SHALL BE USED. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
9. WHERE EXISTING CONCRETE FLOOR SLAB IS SAW CUT AND CONCRETE IS CHIPPED OUT FOR ELECTRICAL UNDER FLOOR EQUIPMENT ANY ELECTRICAL CONDUIT, WIRING OR ELECTRICAL PIPING THAT IS DAMAGED SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
10. UNLESS NOTED OTHERWISE, ALL ELECTRICAL DEVICES, LIGHT FIXTURES, PANELBOARDS, CONDUTS, CONDUCTORS, ETC. ARE TO REMAIN UNLESS OTHERWISE NOTED.
11. SEE MECHANICAL DEMOLITION PLANS FOR THE EXTENT OF HVAC DEMOLITION

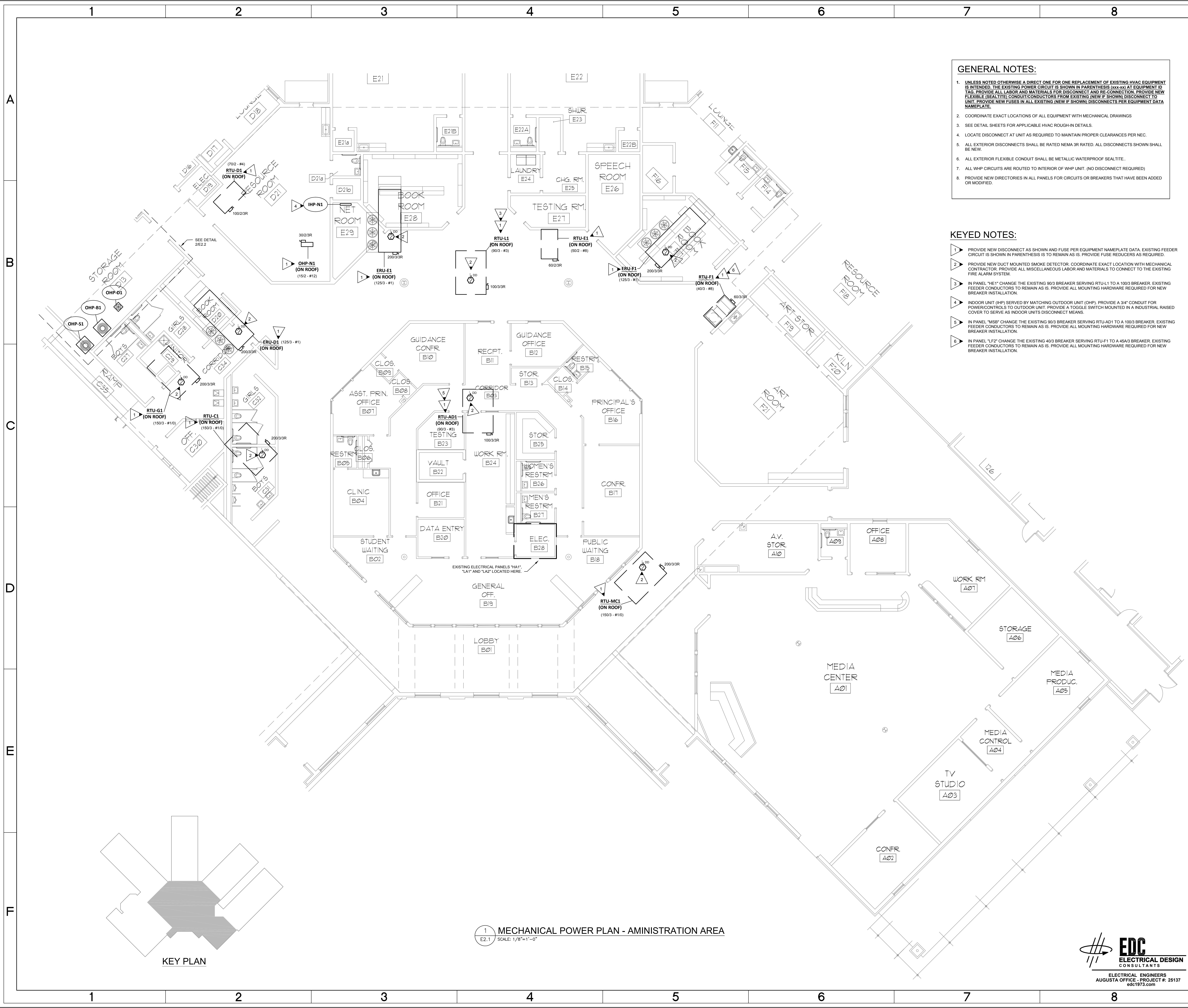
1. TYPE "MC" CABLING SHALL **NOT** BE PERMITTED FOR CONNECTION OF ANY MECHANICAL UNIT.
2. ALL MECHANICAL UNITS SHOWN WITHIN THIS SET OF DRAWINGS ARE A ONE FOR ONE REPLACEMENT. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SCOPE OF THE DEMOLITION/NEW WORK. THE CONTRACTOR SHALL FOR ONE TO ONE REPLACEMENT, FOR EACH EXISTING MECHANICAL UNIT, PROVIDE THE RE-CONNECTION OF ALL NEW/REPLACEMENT MECHANICAL UNITS. VERIFY EXIST LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL DRAWINGS AND FIELD NOTATION.
3. MECHANICAL UNIT LOCATIONS ARE APPROXIMATE LOCATIONS. FIELD VERIFY EXIST LOCATIONS OF ALL EXISTING MECHANICAL UNITS. FIELD LOCATIONS SHALL GOVERN. EXISTING MECHANICAL UNITS SHALL BE FIELD LOCATED AS REQUIRED TO MAINTAIN N.E.C. CLEARANCES.
4. ALL INTERIOR DISCONNECTS SHALL REMAIN AS IS. PROVIDE NEW FLEXIBLE CONNECTION DATA OF NEW CONDUCTORS FOR ALL INTERIOR HVAC BEING REPLACED OR DISCONNECTED. PROVIDE NEW FIBER IN EXISTING DISCONNECTS TO MATCH **NAMEPLATE DATA OF NEW CONDUIT**. PROVIDE NEW I.D. TAG AT DISCONNECT PER DETAIL THIS SHEET.
5. REPLACEMENT MECHANICAL UNITS SHALL BE RE-CONNECTED TO THE EXISTING DISCONNECTS UNLESS OTHERWISE NOTED. PROVIDE ALL MISCELLANEOUS MATERIAL AS REQUIRED TO EXTEND EXISTING CONDUITS TO NEW MECHANICAL UNIT. PROVIDE NEW FIBER IN EXISTING DISCONNECTS TO MATCH **NAMEPLATE DATA OF NEW CONDUIT**. PROVIDE NEW I.D. TAG AT DISCONNECT PER DETAIL THIS SHEET.
6. WHERE NEW MECHANICAL UNITS ARE SHOWN ON THE EXTERIOR OF BUILDING, PROVIDE NEW FIBER IN EXISTING DISCONNECTS TO MATCH **NAMEPLATE DATA OF NEW CONDUCTORS** AS SHOWN. FUSE DISCONNECT TO MATCH NAMEPLATE DATA. SEE APPLICABLE DETAILS PER THIS SHEET FOR CONNECTION TO GROUND MOUNTED UNITS. PROVIDE NEW I.D. TAG PER DETAIL THIS SHEET. SEAL/ITTE FITTINGS SHALL BE STEEL (NOT PLASTIC), CARFLEX (PLASTIC) SEAL/ITTE IS **NOT** ALLOWED.
7. COORDINATE EXIST LOCATION OF ALL MECHANICAL EQUIPMENT WITH DIVISION 23 PORT TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUIT BREAKER TO MATCH EXISTING LOCATION.



3 EQUIPMENT IDENTIFICATION TAG DETAIL

E1.0 SCALE: NONE
NOTE: EXISTING WHP UNITS ARE SERVED AT 480V/3PH WITH A 20A/3P BREAKER.
(WITH EXCEPTION OF WHP-F12 WHICH IS 208V./1PH.) NEW UNITS SHALL HAVE A MOCF
OF 20AMPS AT 480V/3PH NO EXCEPTIONS.





- GENERAL NOTES:**
1. UNLESS NOTED OTHERWISE A DIRECT ONE FOR ONE REPLACEMENT OF EXISTING HVAC EQUIPMENT IS INTENDED. THE EXISTING POWER CIRCUIT IS SHOWN IN PARENTHESIS (xxx-xx) AT EQUIPMENT ID TAG. PROVIDE ALL LABOR AND MATERIALS FOR DISCONNECT AND RE-CONNECTION. PROVIDE NEW FLEXIBLE SEAL-TIED CONDUIT/CONDUCTORS FROM EXISTING (NEW IF SHOWN) DISCONNECT TO UNIT. PROVIDE NEW FUSES IN ALL EXISTING (NEW IF SHOWN) DISCONNECTS PER EQUIPMENT DATA NAMEPLATE.
 2. COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS.
 3. SEE DETAIL SHEETS FOR APPLICABLE HVAC ROUGH-IN DETAILS.
 4. LOCATE DISCONNECT AT UNIT AS REQUIRED TO MAINTAIN PROPER CLEARANCES PER NEC.
 5. ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R RATED. ALL DISCONNECTS SHOWN SHALL BE NEW.
 6. ALL EXTERIOR FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF SEALTITE.
 7. ALL WHP CIRCUITS ARE ROUTED TO INTERIOR OF WHP UNIT. (NO DISCONNECT REQUIRED)
 8. PROVIDE NEW DIRECTORIES IN ALL PANELS FOR CIRCUITS OR BREAKERS THAT HAVE BEEN ADDED OR MODIFIED.

- KEYED NOTES:**
1. PROVIDE NEW DISCONNECT AS SHOWN AND FUSE PER EQUIPMENT NAMEPLATE DATA. EXISTING FEEDER CIRCUIT IS SHOWN IN PARENTHESIS IS TO REMAIN AS IS. PROVIDE FUSE REDUCERS AS REQUIRED.
 2. PROVIDE NEW DUCT MOUNTED SMOKE DETECTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE ALL MISCELLANEOUS LABOR AND MATERIALS TO CONNECT TO THE EXISTING FIRE ALARM SYSTEM.
 3. IN PANEL "HE1" CHANGE THE EXISTING 90/3 BREAKER SERVING RTU-L1 TO A 100/3 BREAKER. EXISTING FEEDER CONDUCTORS TO REMAIN AS IS. PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR NEW BREAKER INSTALLATION.
 4. INDOOR UNIT (IHP) SERVED BY MATCHING OUTDOOR UNIT (OHP). PROVIDE A 3/4" CONDUIT FOR POWER/CONTROLS TO OUTDOOR UNIT. PROVIDE A TOGGLE SWITCH MOUNTED IN A INDUSTRIAL RAISED COVER TO SERVE AS INDOOR UNITS DISCONNECT MEANS.
 5. IN PANEL "MSB" CHANGE THE EXISTING 90/3 BREAKER SERVING RTU-AD1 TO A 100/3 BREAKER. EXISTING FEEDER CONDUCTORS TO REMAIN AS IS. PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR NEW BREAKER INSTALLATION.
 6. IN PANEL "LF2" CHANGE THE EXISTING 40/3 BREAKER SERVING RTU-F1 TO A 45A/3 BREAKER. EXISTING FEEDER CONDUCTORS TO REMAIN AS IS. PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR NEW BREAKER INSTALLATION.

**FREEDOM PARK
K-8 SCHOOL
HVAC PROJECT**

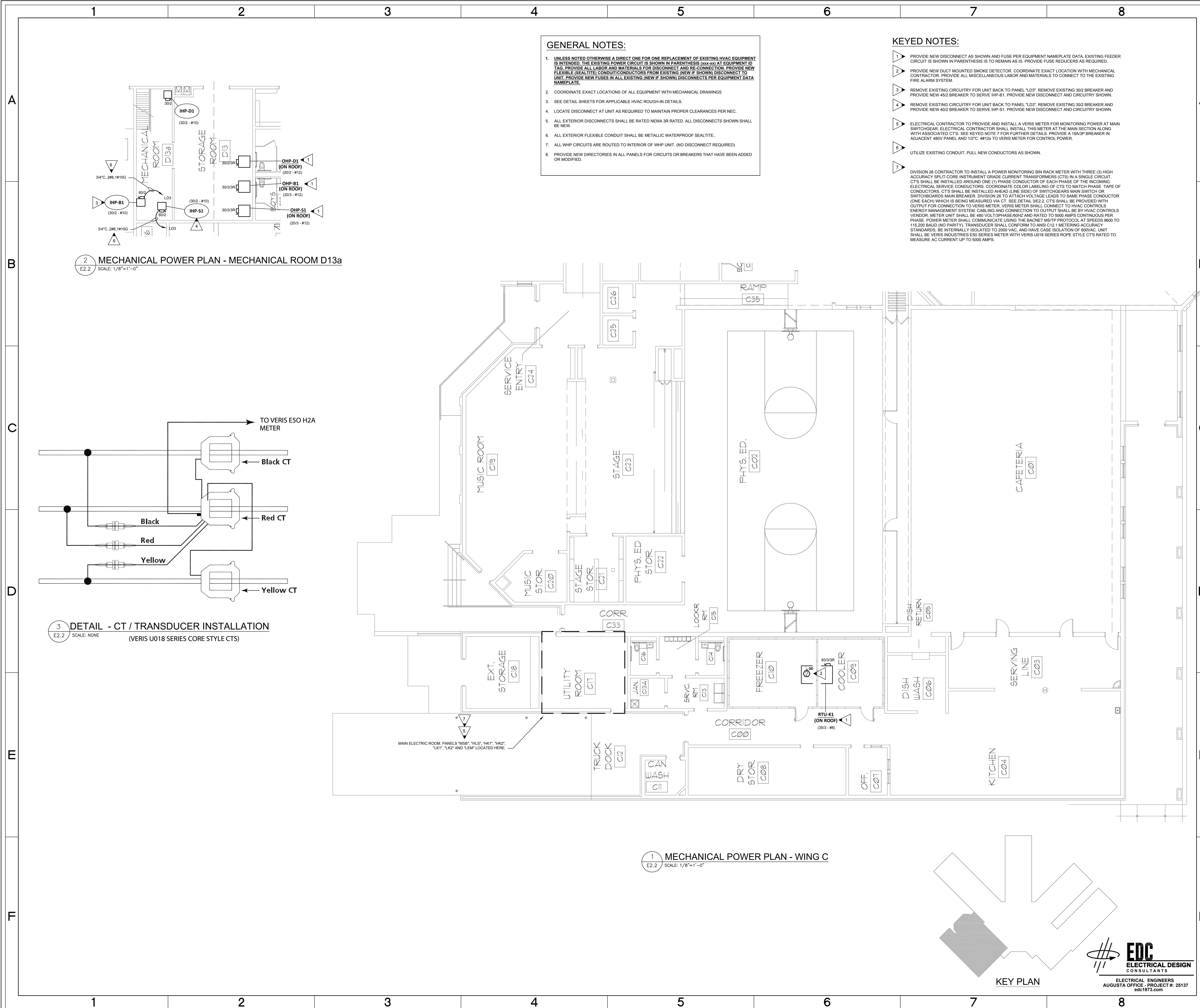
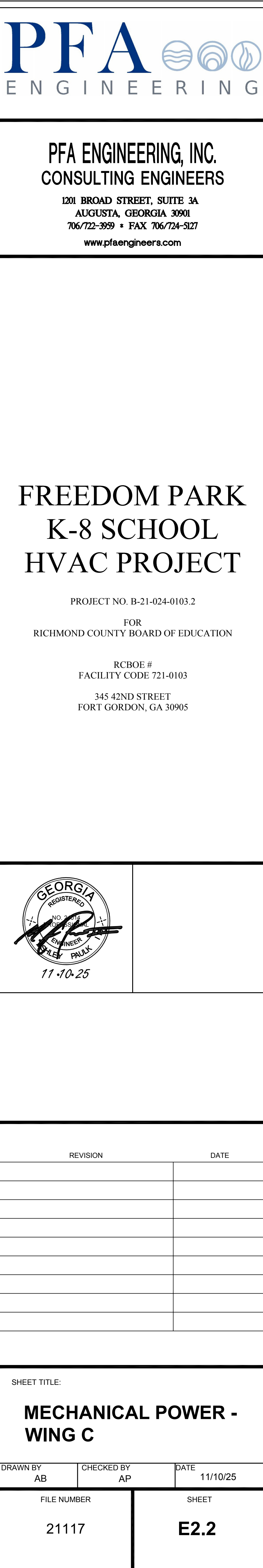
PROJECT NO. B-21-024-0103.2
FOR
RICHMOND COUNTY BOARD OF EDUCATION
RCBOE #
FACILITY CODE 721-0103
345 42ND STREET
FORT GORDON, GA 30905



REVISION	DATE

SHEET TITLE:
**MECHANICAL POWER -
ADMIN. AREA**

DRAWN BY AB	CHECKED BY AP	DATE 11/10/25
FILE NUMBER 21117	SHEET E2.1	



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RCBOE #
FACILITY CODE 721-0103
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FORT GORDON, GA 30905



REVISION

DATE

SHEET TITLE:

MECHANICAL POWER -
WING D AND E

DRAWN BY AB CHECKED BY AP DATE 11/10/25

FILE NUMBER

21117

SHEET

E2.3

GENERAL NOTES:

- UNLESS NOTED OTHERWISE A DIRECT ONE FOR ONE REPLACEMENT OF EXISTING HVAC EQUIPMENT IS INTENDED. THE EXISTING POWER CIRCUIT IS SHOWN IN PARENTHESES (xxx-xx) AT EQUIPMENT ID TAG. PROVIDE ALL LABOR AND MATERIALS FOR DISCONNECT AND RE-CONNECTION. PROVIDE NEW FLEXIBLE (SEALTITE) CONDUIT/CONDUCTORS FROM EXISTING (NEW IF SHOWN) DISCONNECT TO UNIT. PROVIDE NEW FUSES IN ALL EXISTING (NEW IF SHOWN) DISCONNECTS PER EQUIPMENT DATA NAMEPLATE.
- COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS
- SEE DETAIL SHEETS FOR APPLICABLE HVAC ROUGH-IN DETAILS.
- LOCATE DISCONNECT AT UNIT AS REQUIRED TO MAINTAIN PROPER CLEARANCES PER NEC.
- ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R RATED. ALL DISCONNECTS SHOWN SHALL BE NEW.
- ALL EXTERIOR FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF SEALTITE.
- ALL WHP CIRCUITS ARE ROUTED TO INTERIOR OF WHP UNIT. (NO DISCONNECT REQUIRED)
- PROVIDE NEW DIRECTORIES IN ALL PANELS FOR CIRCUITS OR BREAKERS THAT HAVE BEEN ADDED OR MODIFIED.

MECHANICAL POWER PLAN - WING E

1

E2.3 SCALE: 1/8"=1'-0"

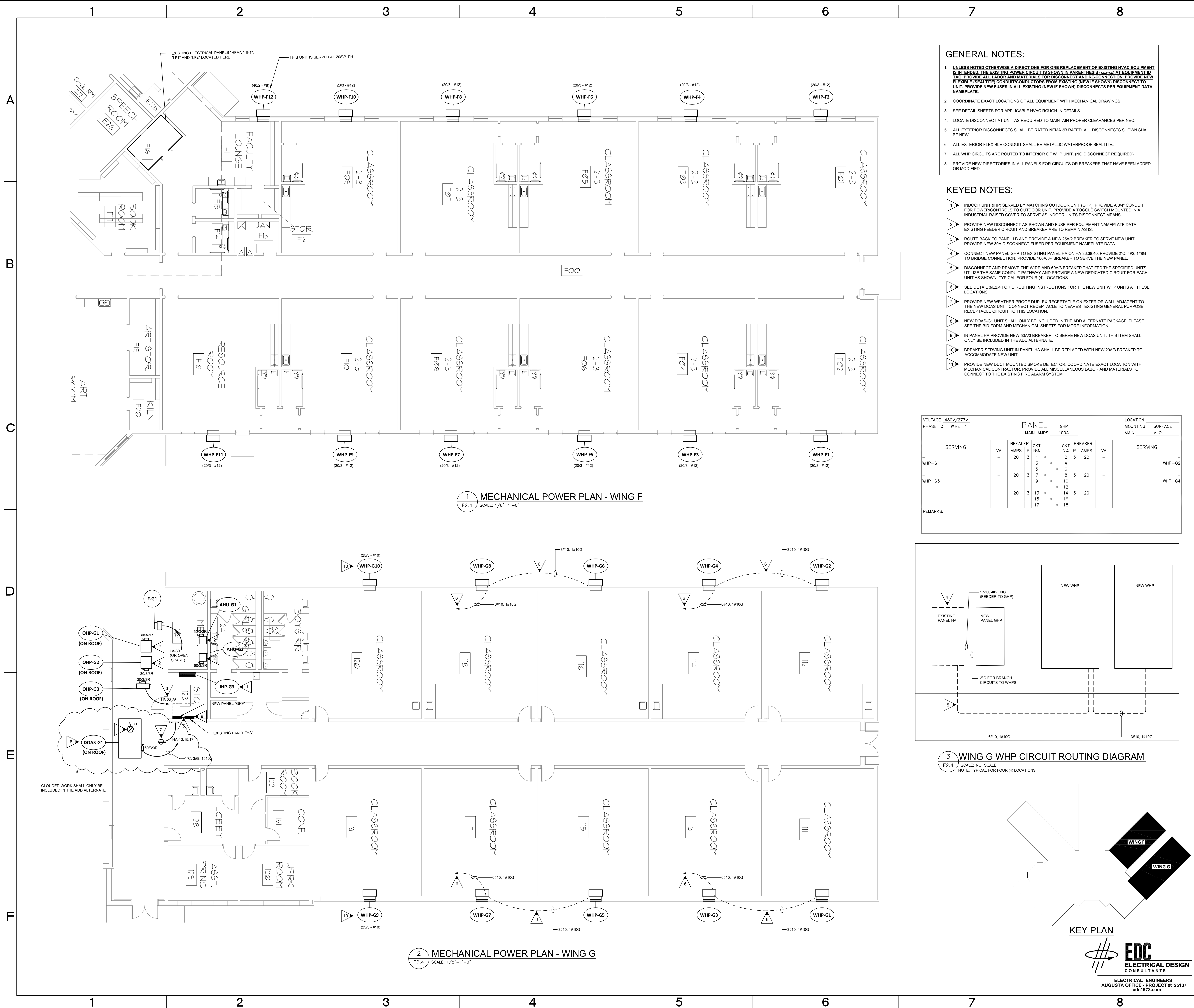
MECHANICAL POWER PLAN - WING D

2

E2.3 SCALE: 1/8"=1'-0"

KEY PLAN





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REVISION			DATE		
SHEET TITLE:					
MECHANICAL POWER - WING F AND G					
DRAWN BY AB		CHECKED BY AP		DATE 11/10/25	
FILE NUMBER			SHEET		
21117			E2.4		