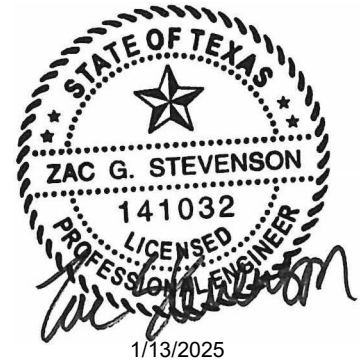


## Addendum No. 001

Project: Blinn A & G  
Project No. 240566  
Date: 1/13/2025

This Addendum forms a part of the Contract Documents. This addendum modifies and supplements the Contract Documents as described herein for the afore referenced Project and includes:

- Three (3) page narrative
- Zero (0) attachment(s)
- Eight (8) revised drawing sheet(s)



## Changes to Drawings

### Mechanical

1. Sheet T0.0 – TITLE SHEET
  - a. Project location map has been added.
  - b. E2.3 has been added to the table of contents.
2. Sheet MD1.2 – MECHANICAL DEMOLITION PLAN – MECH ROOM – BUILDING G
  - a. Building G floorplan has been added.
  - b. Enlarged floorplan of Mech F113 has been added.
  - c. Demolition keyed note 12 has been modified.
  - d. Demolition keyed note 13 has been added.
  - e. Demolition keyed note 14 has been added.
  - f. HW bypass loop was removed from demolition plan.
  - g. 1/4" Scale bar has been added.
  - h. 1/8" scale bar has been moved.
3. Sheet M1.2 – MECHANICAL NEW WORK PLAN – SECOND FLOOR – BUILDING A
  - a. Keyed note 8 has been added.
4. Sheet M1.3 – MECHANICAL NEW WORK PLAN – FIRST FLOOR – BUILDING G
  - a. Keyed note 7 has been modified.
  - b. Building G first floor plan has been added.
  - c. MECH F113 enlarged floorplan has been added.
  - d. 1/4" scalebar has been added.
5. Sheet M3.1 – MECHANICAL SCHEDULES
  - a. Note 8 has been added to the Air Handling Unit Schedule.
  - b. Boiler schedule has been updated.
6. Sheet M4.1 – MECHANICAL CONTROLS
  - a. AHU controls schematic has been modified.
  - b. AHU points list has been modified.
7. Sheet M4.2 – MEHCANICAL CONTROLS
  - a. Responsibility Matrix has been updated.

## Electrical

1. Sheet E2.3 – ELECTRICAL NEW WORK PLAN – FIRST FLOOR – BUILDING G
  - a. New sheet.

## Questions from Contractors

1. Are both the AHU and the boiler being provided by Blinn? If so will the boiler come with a venting package?

**Response: The boiler will be provided by the mechanical contractor.**

2. I have a submittal on the AHU, can a submittal for the boiler be provided or give us a contact person.

**Response: The boiler will be provided by the mechanical contractor.**

3. Sheet M3.1 Air Handling Unit Schedule
  - a. Pre-heat coil. Please confirm if this valve will be 2-way or 3-way.

**Response: Refer to M3.1 Air handling Unit Schedule for valve information.**

4. Sheet M3.1 Boiler Schedule
  - a. Note 6 indicates that indicates that the boiler is to be provided with an Oslin Nation CO100-N1 Carbon Monoxide Monitor. M4.2 Responsibility matrix indicates that the Carbon Monoxide sensor is provided by the Controls vendor. Please confirm who will provide.

**Response: Refer to Addendum #1 changes on sheet M4.2 Responsibility Matrix.**

5. M4.1 I/O list and Responsibility matrix indicates a new Outside Air Flow Measuring Station to be provided by the Controls vendor. Upon site visit, with the current transition there is not applicable room to install the AFMS. Location and size will impact related pricing. Please advise

**Response: Refer to Addendum #1 changes on sheet M4.1 Responsibility Matrix. AFMS will be installed and provided with AHU by AHU manufacturer.**

Blinn Bldg A and G

100% CD

2598 Blinn Blvd, Texas 77802

December 13, 2024

Project Number 21055



PROJECT LOCATION MAP

MECHANICAL, PLUMBING AND ELECTRICAL ENGINEERS

Cleary Zimmermann Engineers

300 West 26th Street  
Bryan, Texas 77803  
Voice (979) 341-8181

Mechanical:

- M0.0 Mechanical Symbols and Abbreviations
- MD1.1 Mechanical Demolition Plan - Second Floor - Building A
- MD1.2 Mechanical Demolition Plan - Mech Room - Building G
- M1.1 Mechanical New Work Plan - First Floor - Building A
- M1.2 Mechanical New Work Plan - Second Floor - Building A
- M1.3 Mechanical New Work Plan - Mech Room - Building G
- M3.1 Mechanical Schedules
- M4.1 Mechanical Controls
- M4.2 Mechanical Controls
- M5.1 Mechanical Details
- M5.2 Mechanical Details

Electrical:

- E0.0 Electrical Symbols and Abbreviations
- ED2.1 Demolition Power Plan - Second Floor - Building A
- E2.1 Electrical Power Plan - First Floor - Building A
- E2.2 Electrical Mechanical Power Plan - Second Floor - Building A
- E2.3 Electrical New Work Plan - First Floor - Building G



BLINN BUILDINGS A & G

2598 BLINN BLVD  
BRYAN, TEXAS 77802

Drawn  
Checked  
Date 13 DECEMBER 2024  
CZE Project No. 240566  
Revisions  
Addendum #1 01/13/2025

SHEET TITLE  
TITLE SHEET

SHEET NO.

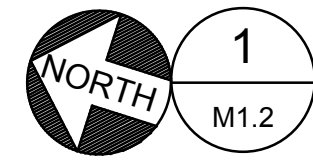
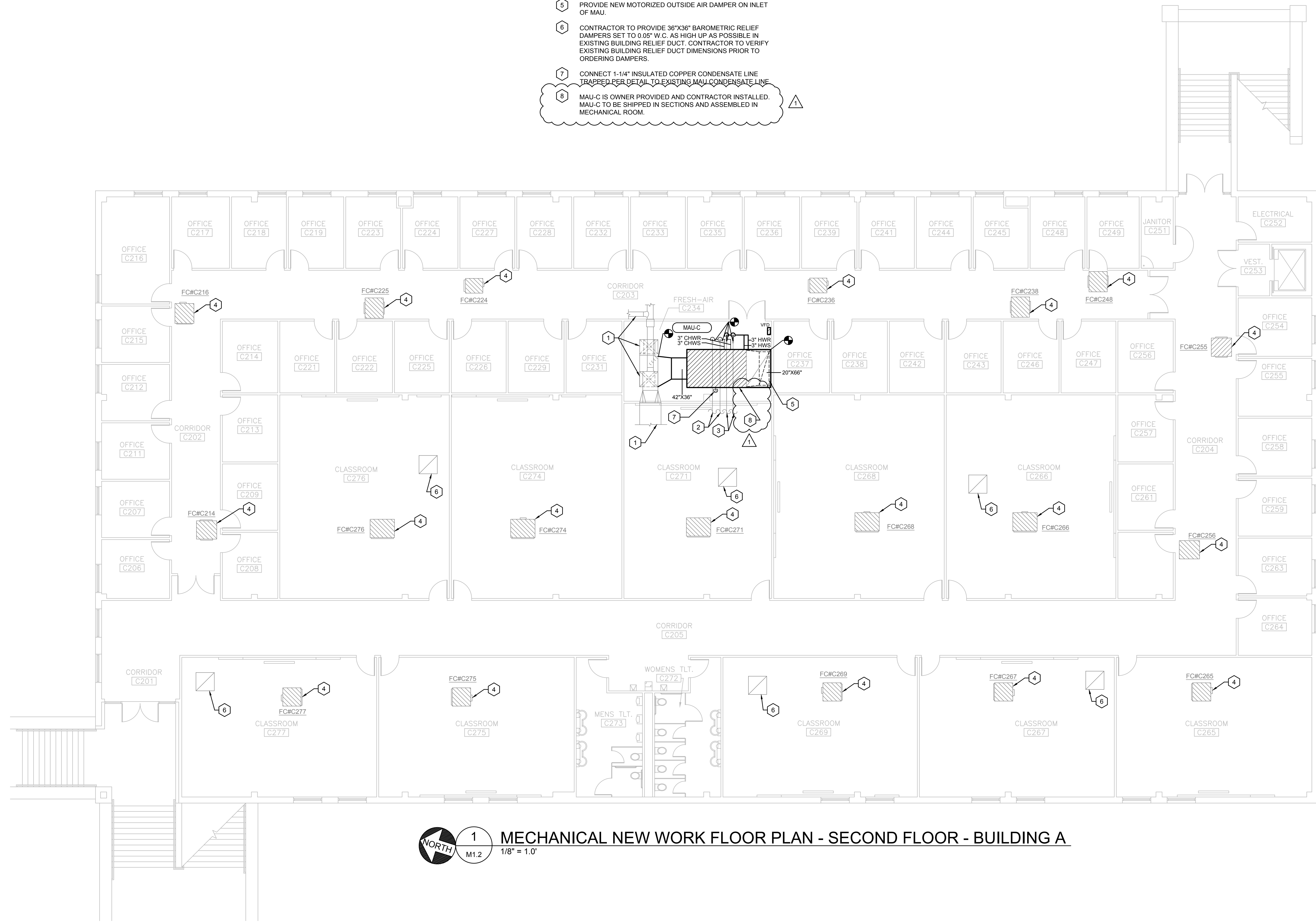
T0.0

**MECHANICAL KEYED NOTES:**

- 1 EXISTING DUCT TO REMAIN.
- 2 EXISTING CHW PIPING TO REMAIN.
- 3 EXISTING HW PIPING TO REMAIN.
- 4 EXISTING FCU TO REMAIN. REBALANCE EXISTING FCU OUTSIDE AIR. REFER TO M3.1 FOR DETAILS.
- 5 PROVIDE NEW MOTORIZED OUTSIDE AIR DAMPER ON INLET OF MAU.
- 6 CONTRACTOR TO PROVIDE 36"X36" BAROMETRIC RELIEF DAMPERS SET TO 0.05" W.C. AS HIGH UP AS POSSIBLE IN EXISTING BUILDING RELIEF DUCT. CONTRACTOR TO VERIFY EXISTING BUILDING RELIEF DUCT DIMENSIONS PRIOR TO ORDERING DAMPERS.
- 7 CONNECT 1-1/4" INSULATED COPPER CONDENSATE LINE TRAPPED PER DETAIL TO EXISTING MAU CONDENSATE LINE
- 8 MAU-C IS OWNER PROVIDED AND CONTRACTOR INSTALLED. MAU-C TO BE SHIPPED IN SECTIONS AND ASSEMBLED IN MECHANICAL ROOM.

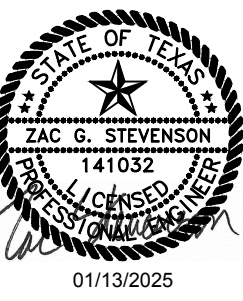
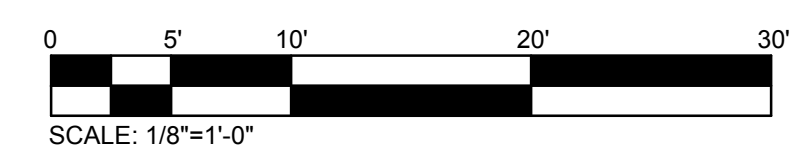
**MECHANICAL GENERAL NOTES:**

- 1. ALL EQUIPMENT TO BE REUSED SHALL BE CLEANED AND RETURNED TO LIKE-NEW CONDITIONS. PRIOR TO COMPLETION OF PROJECT, ALL EXISTING EQUIPMENT SHALL BE TESTED TO ENSURE FULL FUNCTIONALITY.
- 2. CEILING AND ASSOCIATED SYSTEMS SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR NEW WORK. AFTER CONSTRUCTION, CEILINGS SHALL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION WILL BE REPAIRED.
- 3. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT.



**MECHANICAL NEW WORK FLOOR PLAN - SECOND FLOOR - BUILDING A**

M1.2 1/8" = 1'-0"



**BLINN BUILDINGS A & G**

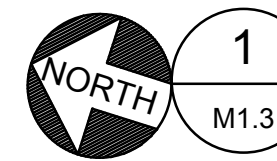
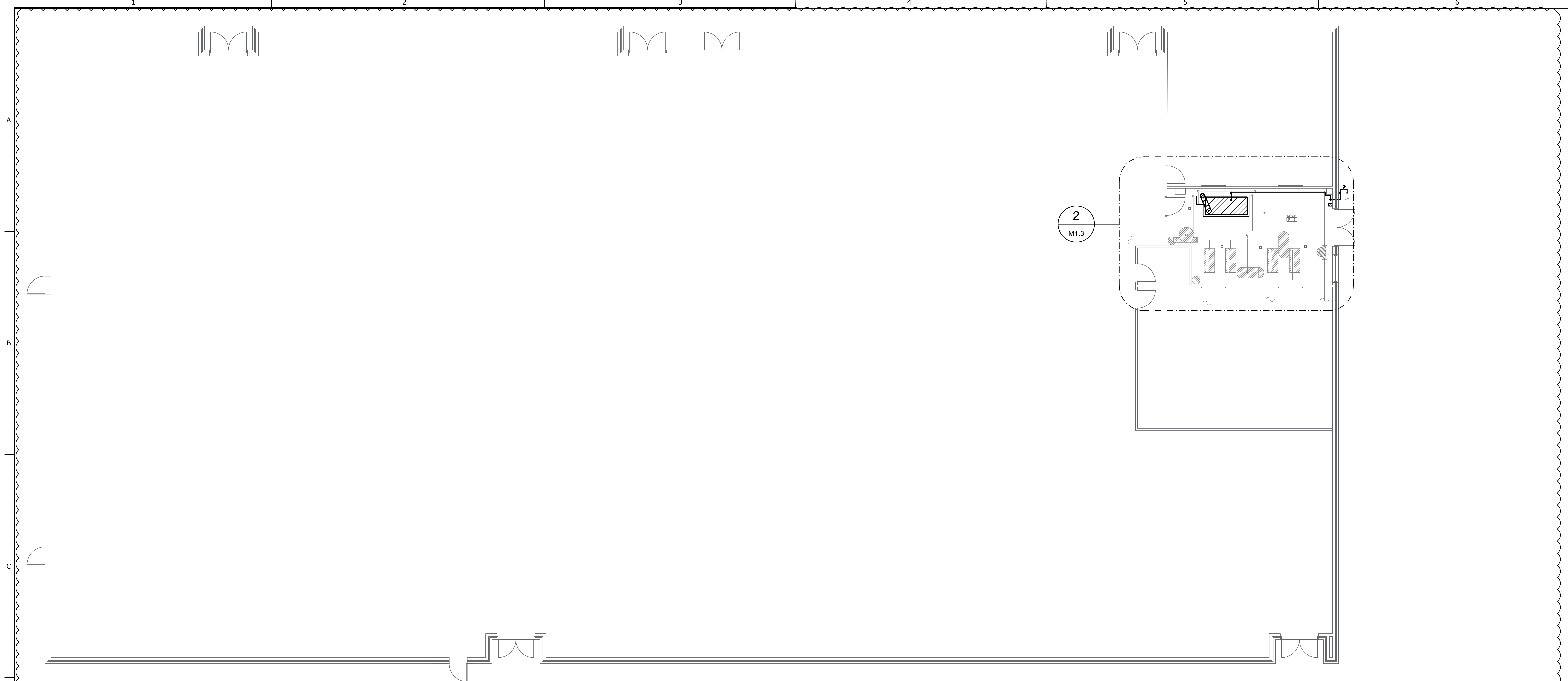
**2598 BLINN BLVD  
BRYAN, TEXAS 77802**

Drawn AH  
Checked ZS  
Date 13 DECEMBER 2024  
CZE Project No. 240566  
Revisions  
Addendum #1 01/13/2025

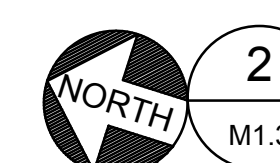
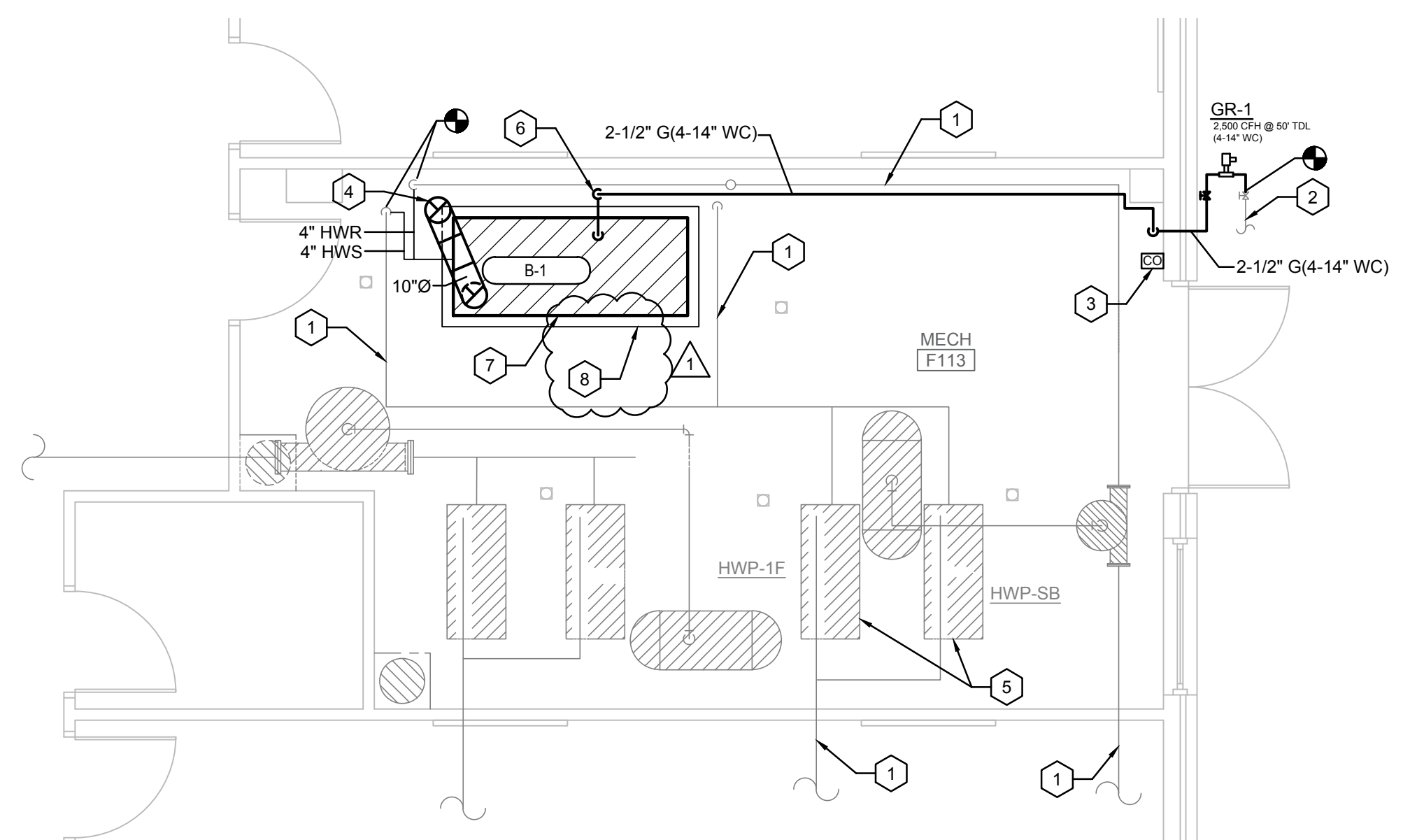
SHEET TITLE  
**MECHANICAL NEW  
WORK PLAN - SECOND  
FLOOR - BUILDING A**

SHEET NO.

**M1.2**



**1** MECHANICAL NEW WORK PLAN - FIRST FLOOR - BUILDING G  
 M1.3 1/8" = 1.0'



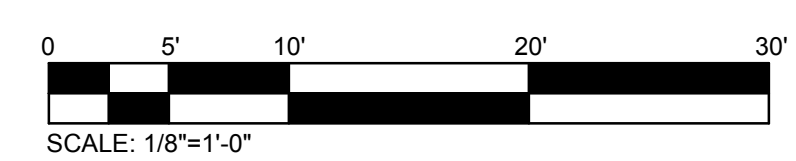
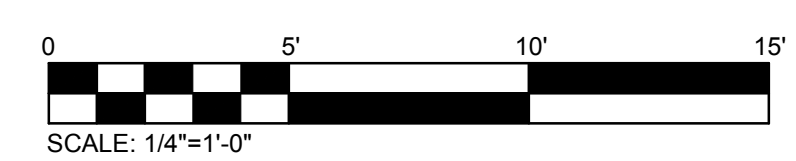
**2** MECH F113 ENLARGED MECHANICAL PLAN  
 M1.3 1/4" = 1.0'

**MECHANICAL GENERAL NOTES:**

1. ALL EQUIPMENT TO BE REUSED SHALL BE CLEANED AND RETURNED TO LIKE-NEW CONDITIONS. PRIOR TO COMPLETION OF PROJECT, ALL EXISTING EQUIPMENT SHALL BE TESTED TO ENSURE FULL FUNCTIONALITY.
2. CEILING AND ASSOCIATED SYSTEMS SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR NEW WORK. AFTER CONSTRUCTION, CEILINGS SHALL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION WILL BE REPAIRED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT.

**MECHANICAL KEYED NOTES:**

1. EXISTING HW PIPING TO REMAIN.
2. EXISTING NATURAL GAS PIPING TO REMAIN.
3. CONTRACTOR TO PROVIDE CO SENSOR IN MECHANICAL ROOM WITH ALARM AND BOILER SHUTOFF OPTIONS.
4. ROUTE 10"Ø BOILER FLUE UP THROUGH ROOF PER MANUFACTURER REQUIREMENTS. REFER TO DETAIL.
5. EXISTING HW PUMPS TO REMAIN.
6. PROVIDE DIRT LEG ON NATURAL GAS PIPING AT INDICATED LOCATION.
7. CONNECT BOILER B-1 TO EXISTING BOILER B-2 ELECTRICAL CIRCUIT. EXISTING BOILER B-1 CIRCUIT TO REMAIN AS SPARE.
8. EXISTING HOUSEKEEPING PAD TO BE REUSED. EXTEND PAD IF NECESSARY 4" LARGER THAN BOILER IN ALL DIRECTIONS.



FC OUTSIDE AIR	
FCU#	CFM
C214	100
C216	110
C224	110
C225	100
C236	105
C238	100
C248	100
C255	100
C256	95
C265	400
C266	500
C267	400
C268	500
C269	440
C271	400
C274	500
C275	440
C276	500
C277	500
TOTAL CFM	5500

GENERAL NOTES:  
1. RE-BALANCE FCU FRESH AIR INTAKE TO INDICATED FLOWS.

FC OUTSIDE AIR	
FCU#	CFM
C101	60
C102	75
C106	60
C113	550
C114	550
C115	450
C116	450
C117	450
C118	550
C119	450
C120	400
C121	475
C122	60
C128	60
C132	60
C134	75
C136	75
C144	100
C149	60
TOTAL CFM	5010

GENERAL NOTES:  
1. RE-BALANCE FCU FRESH AIR INTAKE TO INDICATED FLOWS.

HOT WATER BOILER SCHEDULE	
MARK	B-1
SERVICE	HYDRONIC HEATING
MIN. BOILER EFFICIENCY	96.1%
INPUT (MBH)	2,500
MIN. OUTPUT (MBH)	2-146
ELEC. SERVICE (FLAV/PH)	4.5 / 208 / 3
FUEL	NATURAL GAS
BURNER TYPE	CONDENSING
FLOW (GPM)	209
SAFETY RELIEF VALVE (PSIG)	75
ASME WORKING PRESSURE	160
MAX. WATER PRESSURE DROP (FT)	5.3
OPERATING WEIGHT (LBS.)	1,025
MANUFACTURER	LOCHINVAR
MODEL NUMBER	EP-2501
NOTES	1-8

- NOTES:
- EFFICIENCY @ 130°F INLET, 110°F OUTLET WATER TEMP, AT HIGH FIRE.
  - LOW NOX COMPLIANT IN STATE OF TEXAS.
  - PROVIDE WITH MANUFACTURER'S ISOLATION MOUNTS.
  - PROVIDE WITH BACnet INTERFACE.
  - PROVIDE WITH MOTORIZED ISOLATION VALVE.
  - PROVIDE WITH MANUFACTURER STANDARD CARBON MONOXIDE MONITOR.
  - PROVIDE WITH CONDENSATE DRAIN PANS.
  - CONTRACTOR TO VERIFY EXISTING BOILER ELECTRICAL SERVICE.

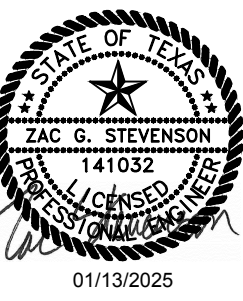
GAS PRESSURE REGULATOR SCHEDULE							
MARK	DESCRIPTION	TOTAL CFH	INLET PRESSURE (P.S.I./OZ)	OUTLET PRESSURE (P.S.I./W.C.)	PIPE SIZE	MANUFACTURER / MODEL	NOTES
GR-1	LOCHINVAR BOILER	2,500	2 PSI	4-14" WC	2-1/2"	SENSUS # 243-12-1	
NOTES							

AIR HANDLING UNIT SCHEDULE	
MARK	MAU-C
AREA SERVED	BUILDING A
UNIT LOCATION	C234
TOTAL CFM	10,510
O.A. CFM	10,510
EXT. S.P. *	1.5
DISCHARGE PLENUM	
REQUIRED?	NO
FAN	
TYPE	PLENUM
DRIVE	DIRECT
CONTROLS SEQUENCE #	M4.1
FAN QTY / FAN DIAMETER (IN.) [EACH]	4 / 16
FAN RPM [EACH] / MOTOR FLA [EACH]	2514 / 4.5
AIR MODULATION	CONSTANT
FAN MOTOR (MIN. HP [EACH] / V / PH)	3.5 / 460 / 3
ACCESS SECTION	
DOOR REQUIRED?	YES
DOOR SIZE (MIN.)	18" x 67.5"
COOLING COIL	
TYPE	CHW
CFM	10,510
EAT (DB / WB)	105 / 78
LAT (DB / WB)	54.4 / 54.3
MAX. FACE VEL. (FPM)	500
MAX. APD (IN. WC)	0.66
GPM AT 44 EWT (TEMP. RISE = 12°F)	161.0
MAX. WPD (FT.)	7.0
MIN. ROWS / MAX. FINS (PER IN.)	6 / 10
VALVE TYPE	2-WAY
TOTAL CAPACITY (MBH)	808.0
SENS. CAPACITY (MBH)	547.3
ACCESS SECTION	
DOOR REQUIRED?	YES
DOOR SIZE (MIN.)	18" x 67.5"
PRE-HEAT COIL	
TYPE	HW
CFM	10,510
EAT (DB)	20.0
LAT (DB)	55.4
MAX. FACE VEL. (FPM)	442.5
MAX. APD (IN. WATER)	0.1
GPM AT 160 EWT (TEMP. DROP = 30°F)	30.0
MAX. WATER PD (FT)	5.4
MAX. ROWS / MAX. FINS (PER IN.)	1-10
VALVE TYPE	2-WAY
OUTPUT (MIN. MBH)	428
ACCESS SECTION	
DOOR REQUIRED?	YES
DOOR SIZE (MIN.)	18" x 67.5"
INLET SECTION	
TYPE	FILTER
INLETS	1
FILTER TYPE	4" PLEATED
FINAL FILTER MERV (DIMENSIONS)	13 (20"x24"x4" / 20"x20"x4")
FILTER MOUNTING	FLAT
OA DAMPERS	YES
MAX. INITIAL FILTER PD @ 500 FPM	0.18
DIRTY FILTER ALLOWANCE (IN)**	0.75
OPERATING WEIGHT (LBS.)	6,428
REFERENCE	TEMPROL
NOTES	1-9

\* EXTERNAL STATIC PRESSURE INCLUDES SYSTEM LOSSES ONLY AND EXCLUDES OPENING PRESSURE DROP AND LOSSES DUE TO ITEMS IN UNIT ITSELF (COILS, CASING, DAMPERS, CLEAN FILTERS, ETC.).  
\*\* DIRTY FILTER ALLOWANCE IS PRESSURE DROP ALLOWED IN ADDITION TO INITIAL FILTER PD.

AIR HANDLING UNIT NOTES:

- UNIT TO BE PROVIDED WITH 2" DOUBLE WALL R-13 FOAM INSULATION.
- PROVIDE ALL UNITS WITH STAINLESS STEEL DRAIN PAN AND COIL CASING.
- AHU TO BE MOUNTED ON EXISTING HOUSEKEEPING PAD.
- PROVIDE WEATHER-RESISTANT, GASKETED, INCANDESCENT MARINE LED LIGHT IN FAN SECTION AND 120V CONVENIENCE OUTLET.
- PROVIDE WITH VELOCITY PRESSURE AIRFLOW STATION ON EACH SUPPLY FAN.
- PROVIDE WITH CONDENSATE DRAIN PAN CONNECTION ON OPPOSITE SIDE OF COIL CONNECTIONS.
- PROVIDED UNIT WITH DWYER DIGIHelic II DIFFERENTIAL PRESSURE CONTROLLER.
- OWNER PROVIDED AHU TO BE SHIPPED IN SECTIONS AND ASSEMBLED IN MECHANICAL ROOM.
- UNIT WAS PURCHASED AS PART OF A PREVIOUS EQUIPMENT PACKAGE. CONTRACTOR TO COORDINATE WITH OWNER FOR DELIVERY.



BLINN BUILDINGS A & G

2598 BLINN BLVD  
BRYAN, TEXAS 77802

Drawn AH  
Checked ZS  
Date 13 DECEMBER 2024  
CZE Project No. 240566  
Revisions  
Addendum #1 01/13/2025

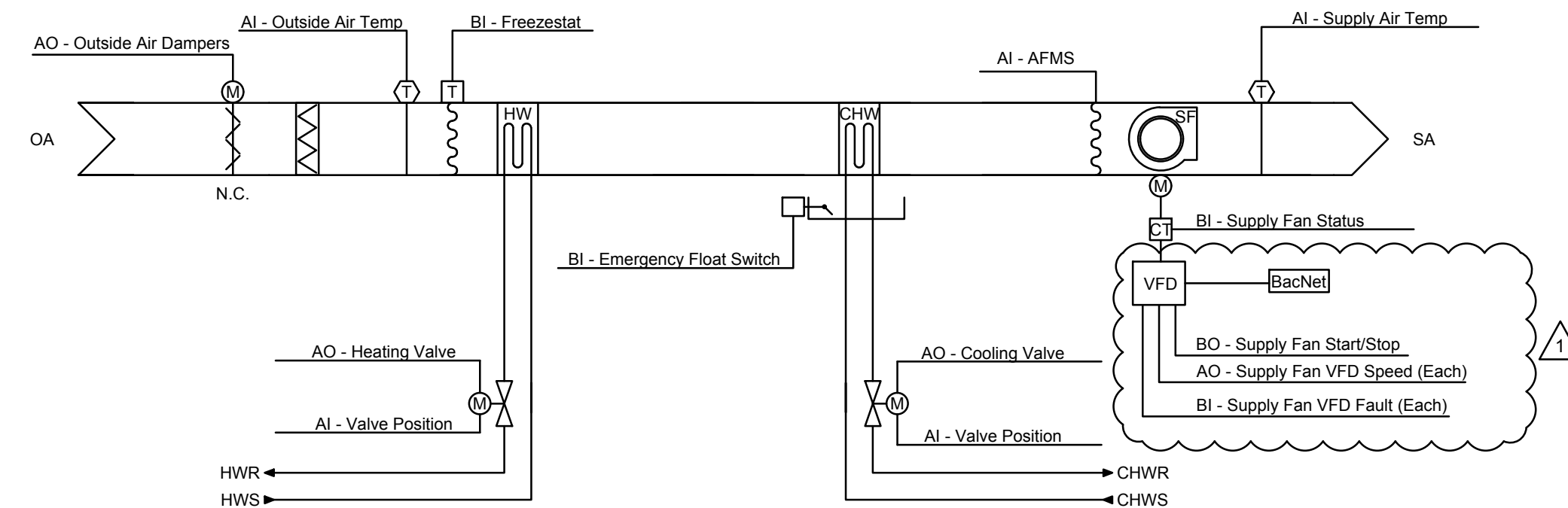
SHEET TITLE  
MECHANICAL  
SCHEDULES

SHEET NO.

M3.1

**GENERAL CONTROLS NOTES:**

1. ALL WIRING TO BE RUN IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO BUILDING LINES. WIRING TO BE RUN ON J-HOOKS IN ACCESSIBLE LOCATIONS, IN CONDUIT IN EXPOSED LOCATIONS, ABOVE GYP CEILINGS, AND BELOW 8 FOOT (ALL WIRING WITHIN WALLS TO BE RUN IN CONDUIT).
2. ALL DAMPERS, AIRFLOW MEASURING STATIONS AND SENSORS ARE TO BE LOW VOLTAGE (24V) POWERED BY DDC CONTRACTOR.



Point Name	Hardware Points				Software Points				Show On Graphic
	AI	AO	BI	BO	LOOP	Sched	Trend	Alarm	
Outside Air Temperature	●						●		●
Freezestat			●						●
Cooling Coil Leaving Air Temperature	●						●		●
Supply Air Temperature	●						●		●
Supply Fan Status (Each)			●					●	●
Supply Fan Start/Stop (Each)				●					●
Cooling Valve		●			●		●		●
Heating Valve		●			●		●		●
Outside Air Damper			●				●		●
Outside Airflow	●						●		●
Cooling Valve Position	●						●		●
Heating Valve Position	●						●		●
Supply Fan VFD Speed (Each)				●			●		●
Supply Fan VFD Fault (Each)			●				●		●
VFD BACNet Interface		●					●		●

RESPONSIBILITY MATRIX				
DEVICE	SUPPLIED BY	INSTALLED BY	WIRING BY CONTROLS	WIRING BY ELECTRICAL
Temp/Humidity/Misc. Sensors	Controls Contractor	Controls Contractor	DDC Panel to Sensors	N/A
Fan VFD	Mechanical Contractor	Mechanical Contractor	DDC panel to VFD	Electrical panel to VFD/Fan
Fan	AHU Manufacturer	Mechanical Contractor	DDC Panel to Starter or VFD	Electrical panel to starter/VFD
Current Sensing Relay	Controls Contractor	Controls Contractor	DDC Panel to CSR	N/A
Motorized Valves-Body	Controls Contractor	Mechanical Contractor	N/A	N/A
Motorized Valves-Actuator	Controls Contractor	Controls Contractor	DDC Panel to Actuator	N/A
Dampers (O/A / Misc.)	Mechanical Contractor	Mechanical Contractor	N/A	N/A
Damper Actuators (O/A / Misc.)	Controls Contractor	Controls Contractor	DDC Panel to Actuator	N/A
Dampers (R/A)	AHU Manufacturer	Mechanical Contractor	N/A	N/A
Outside Air AFMS	AHU Manufacturer	AHU Manufacturer	DDC Panel to Sensors	N/A

**Constant Volume CW w/ HW preheat**

**Run Conditions - Scheduled:**

The unit shall run according to a user definable time schedule. The supply fan shall run per a user defined schedule unless shutdown on safeties. The outside air damper shall close when the unit is off. Any associated sfd shall close when the unit is off.

**AHU Optimal Start:**

The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.

**FREEZE PROTECTION:**

Interlock freezestat with fan starter / VFD. Alarm input (dry contacts) to DDC.

**Via hardware interlock:**

- Force CW control valve to open 50%
- HW control valve to 100% open
- Open return air damper
- Close outside air damper

**Manual reset at freezestat.**

**Supply Fan:**

The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties.

Alarms shall be provided as follows:

- \* Supply Fan Failure: Commanded on, but the status is off.
- \* Supply Fan in Hand: Commanded off, but the status is on.
- \* Supply Fan Runtime Exceeded: Status runtime exceeds a user definable limit (adj.).

**Cooling Mode:**

The controller shall measure the supply air temperature and modulate the cooling coil valve to maintain its cooling setpoint.

Cooling mode shall be enabled whenever:

- \* The supply air temperature is above cooling setpoint.
- \* AND the supply fan status is on.
- \* AND the HW control valve position is closed.

**Heating Mode:**

The controller shall measure the outdoor air temperature and modulate the heating coil valve to maintain the supply air temperature setpoint.

Heating mode shall be enabled whenever:

- \* The outside air temperature is below the supply air temperature setpoint.
- \* AND the supply fan status is on.

**Supply Air Temperature:**

The controller shall monitor the supply air temperature.

- \* The supply air temperature setpoint shall be 55°F (adj.).

Alarms shall be provided as follows:

- High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.).
- Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.).

**1 CONSTANT VOLUME CW AIR HANDLER WITH HW PREHEAT (MAU-C)**  
M4.1 NOT TO SCALE



**BLINN BUILDINGS A & G**  
2598 BLINN BLVD  
BRYAN, TEXAS 77802

Drawn AH  
Checked ZS  
Date 13 DECEMBER 2024  
CZE Project No. 240566  
Revisions  
Addendum #1 01/13/2025

SHEET TITLE  
**MECHANICAL CONTROLS**

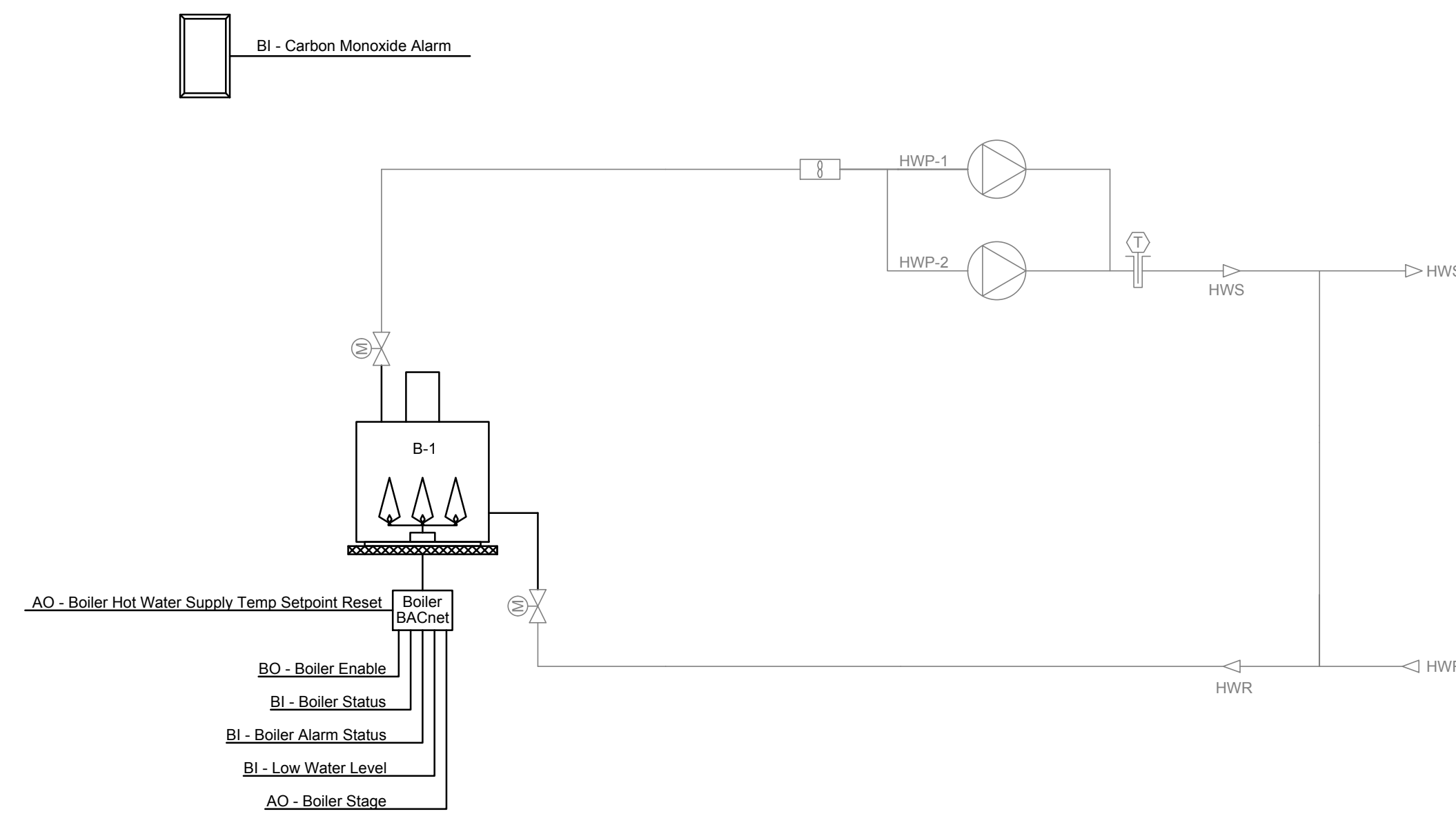
SHEET NO.

**M4.1**



**GENERAL CONTROLS NOTES:**

1. ALL WIRING TO BE RUN IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO BUILDING LINES. WIRING TO BE RUN ON J-HOOKS IN ACCESSIBLE LOCATIONS, IN CONDUIT IN EXPOSED LOCATIONS, ABOVE GYP CEILINGS, AND BELOW 8 FOOT (ALL WIRING WITHIN WALLS TO BE RUN IN CONDUIT).
2. ALL DAMPERS, AIRFLOW MEASURING STATIONS AND SENSORS ARE TO BE LOW VOLTAGE (24V) POWERED BY DDC CONTRACTOR.
3. CONTROLS CONTRACTOR TO MODIFY EXISTING BOILER CONTROLS ONLY TO THE EXTENT INDICATED.



**1 HOT WATER BOILER SCHEMATIC**  
M4.2 NOT TO SCALE

Point Name	Hardware Points				Software Points				Show On Graphic
	AI	AO	BI	BO	LOOP	Sched	Trend	Alarm	
Boiler Hot Water Supply Temperature Setpoint Reset		●			●			●	●
Boiler Alarm Status			●					●	●
CO Monitor Alarm			●					●	●
Low Water Level			●					●	●
Boiler Status			●					●	●
Boiler Stage				●					●
Boiler Enable				●		●			●
Boiler Failure								●	●
Boiler Running in Hand								●	●

RESPONSIBILITY MATRIX				
DEVICE	SUPPLIED BY	INSTALLED BY	WIRING BY CONTROLS	WIRING BY ELECTRICAL
Boiler	Boiler Manufacturer	Mechanical Contractor	N/A	Electrical Panel to Boiler
Boiler BACnet Interface	Boiler Manufacturer	Boiler Manufacturer	DDC Panel to Boiler BACnet	N/A
Temperature Sensors	Controls Contractor	Controls Contractor	DDC Panel to Sensors	N/A
Sensor Wells	Controls Contractor	Mechanical Contractor	N/A	N/A
Carbon Monoxide Sensor	Mechanical Contractor	Controls Contractor	DDC Panel to Alarm	N/A

**BOILER SYSTEM RUN CONDITIONS:**

The boiler system shall be enabled based on an operator adjustable occupied/unoccupied schedule.

To prevent short cycling, the boiler system shall run for a minimum of 30 minutes (adj.), unless shutdown on safeties. The boiler shall run subject to its own internal safeties and controls. The boiler system shall also run for freeze protection whenever outside air temperature is less than 38°F (adj.).

The boiler shall be modulated to maintain 130°F with a 20°F change in temperature.

**BOILER OPTIMAL START:**

The boiler system shall start prior to scheduled occupancy based on air handler operation status.

**BOILER SAFETIES:**

The following safeties shall be monitored:

- Boiler alarm.
- Low water level.
- CO Monitor Alarm

Alarms shall be provided as follows:

- Boiler alarm.
- Low water level alarm.
- CO Monitor Alarm

**BOILER ENABLE:**

The boiler and associated control valves shall be enabled when the boiler system is commanded on. The boiler shall be enabled after main pump status is proven through the hot water flow switch and shall run subject to its own internal safeties and controls.

Boiler shall be modulated based upon a signal from hot water supply temperature and hot water return temperature.

Alarms shall be provided as follows:

- Boiler failure: commanded on, but the status is off.
- Boiler running in hand: commanded off, but the status is on.

**HOT WATER SUPPLY TEMPERATURE SETPOINT RESET:**

The hot water supply temperature setpoint shall reset based on outside air temperature. As outside air temperature rises from 40°F (adj.) to 70°F (adj.) the hot water supply temperature setpoint shall reset downwards by subtracting from 0°F (adj.) up to 20°F (adj.) from the current boiler setpoint.

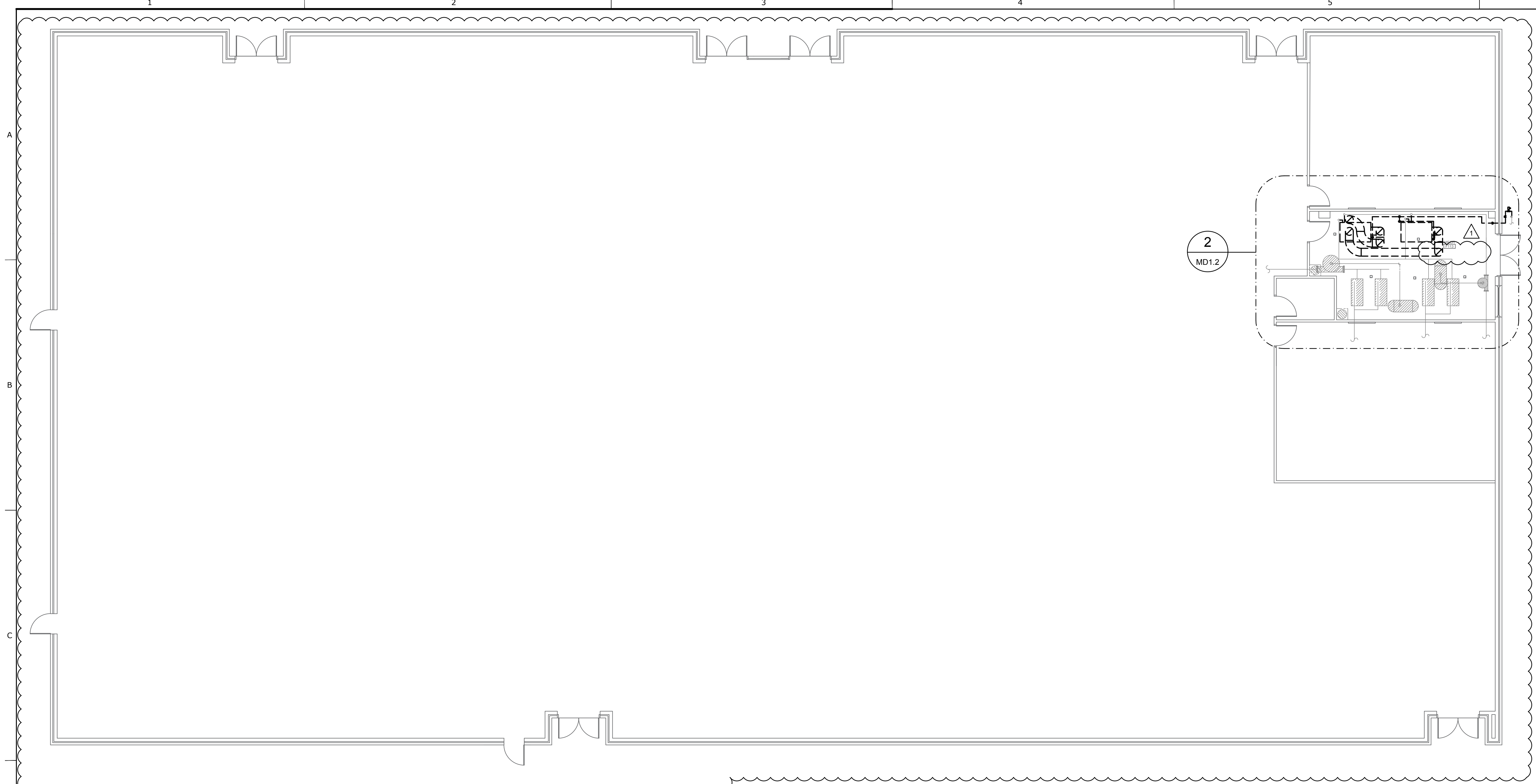
**HOT WATER TEMPERATURE MONITORING:**

The following temperatures shall be monitored:

- Hot water supply.
- Hot water return.

Alarms shall be provided as follows:

- High hot water supply temp: if greater than 200°F (adj.).
- Low hot water supply temp: if less than 100°F (adj.).



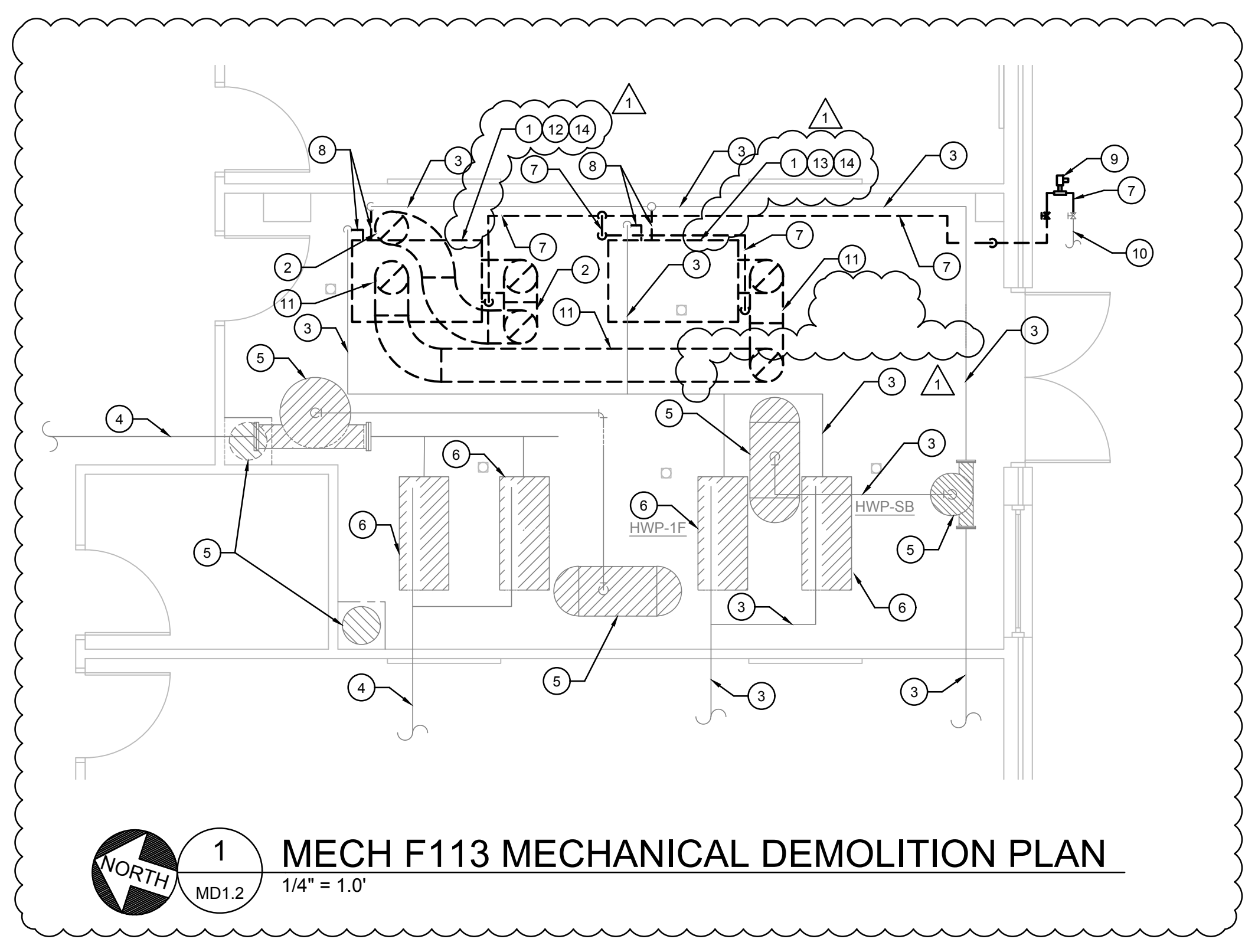
**1 MECHANICAL DEMOLITION PLAN - FIRST FLOOR - BUILDING G**  
 NORTH MD1.2 1/8" = 1.0'

**GENERAL DEMOLITION NOTES:**

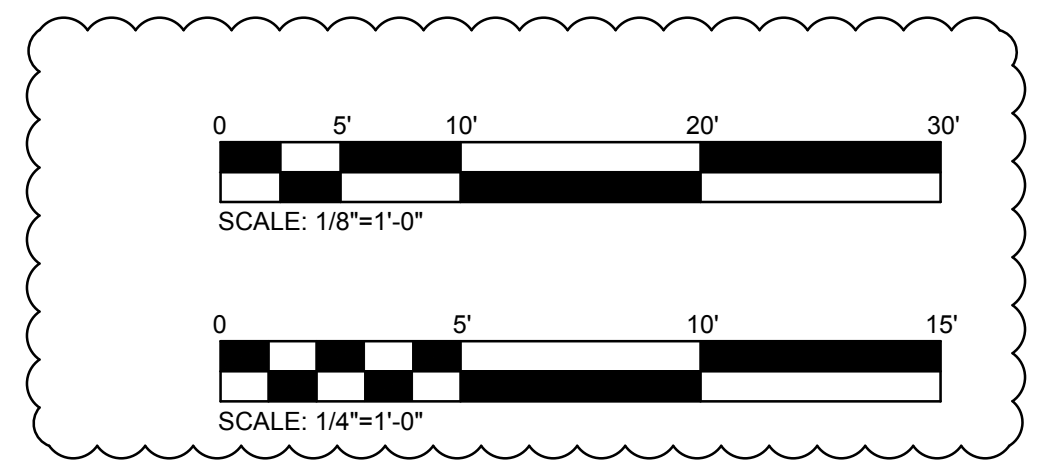
1. GENERAL: EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE REMOVE FROM OWNER OCCUPIED AREAS DAILY. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
2. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. COMPLETE SELECTIVE DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL.
3. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE.
4. COORDINATE ALL DEMO ACTIVITIES WITH OWNER AND ARCHITECT AND PROVIDE 10 DAYS NOTICE FOR ANY POWER OUTAGES.
5. CEILING AND ASSOCIATED SYSTEMS (LIGHTS, SPEAKERS, ETC) SHALL ONLY BE REMOVED TO THE EXTENT NECESSARY FOR DEMOLITION AND NEW WORK. AFTER CONSTRUCTION, CEILINGS WILL BE REINSTALLED, AND ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE REPAIRED.
6. CONTRACTOR TO COORDINATE WITH OWNER TO VIEW EXISTING CONDITIONS PRIOR TO BIDDING PROJECT.

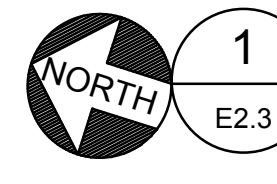
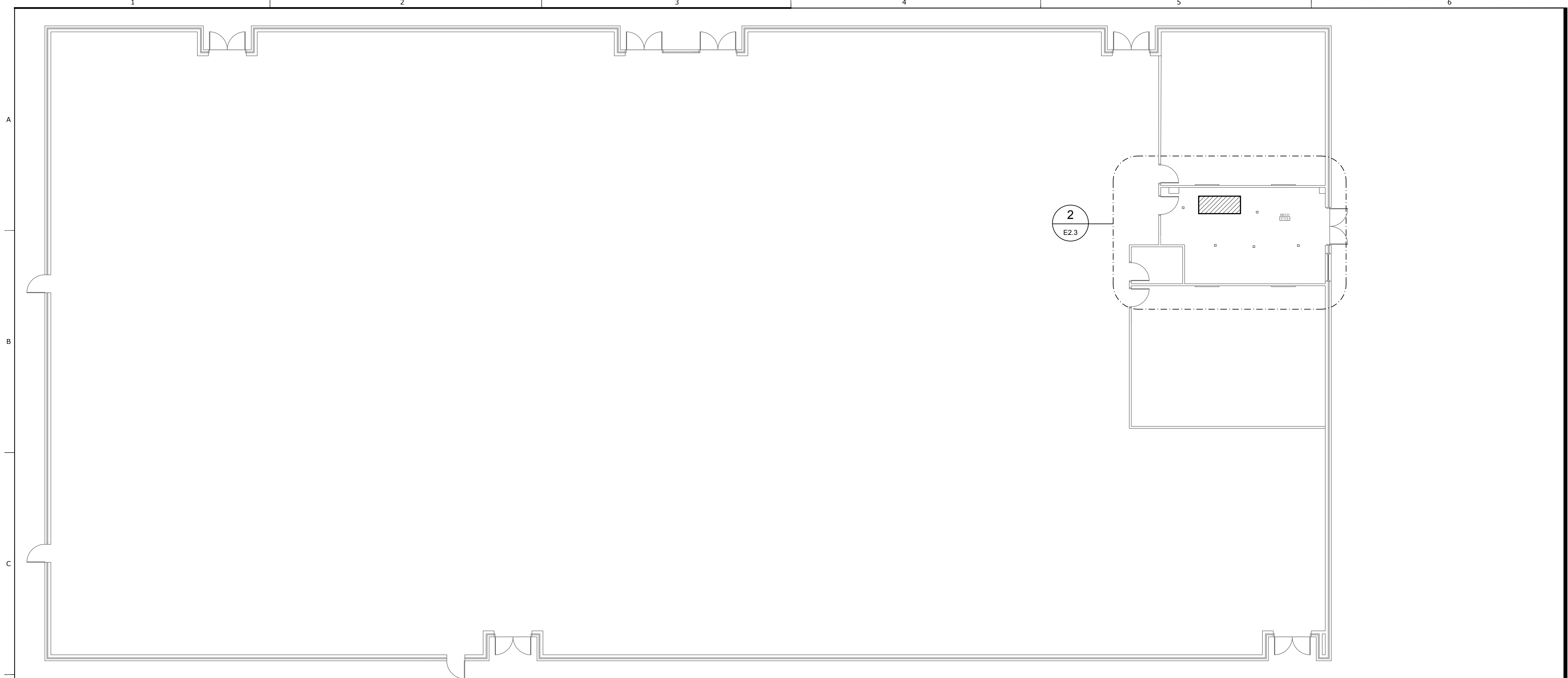
**DEMOLITION KEYED NOTES:**

- 1 DEMOLISH EXISTING BOILER AND ASSOCIATED HW PIPE CONNECTIONS, NATURAL GAS PIPE CONNECTIONS, BOILER VENT DUCT CONNECTIONS, AND ASSOCIATED CONTROLS CONNECTIONS.
- 2 DEMOLISH EXISTING BOILER VENT DUCT UP TO ROOF AND ASSOCIATED BOILER FLUE CAP AND STORM COLLAR ON ROOF.
- 3 EXISTING HW PIPING TO REMAIN.
- 4 EXISTING CHW PIPING TO REMAIN.
- 5 EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- 6 EXISTING PUMPS TO REMAIN.
- 7 DEMOLISH EXISTING NATURAL GAS PIPING AND SUPPORTS UP TO POINT INDICATED.
- 8 DEMOLISH EXISTING HW PIPING UP TO EXISTING AUTOMATIC CONTROL VALVE. DEMOLISH ASSOCIATED BOILER HW CIRCULATION PUMP.
- 9 DEMOLISH EXISTING NATURAL GAS REGULATOR.
- 10 EXISTING NATURAL GAS PIPING TO REMAIN.
- 11 DEMOLISH EXISTING BOILER VENT DUCT UP TO ROOF AND ASSOCIATED BOILER FLUE CAP AND STORM COLLAR ON ROOF - CAP OPENING.
- 12 EXISTING BOILER HOUSEKEEPING PAD TO REMAIN.
- 13 DEMOLISH EXISTING BOILER HOUSEKEEPING PAD.
- 14 EXISTING BOILER AND CIRCULATING PUMP ELECTRICAL CIRCUITS TO REMAIN AS SPARE.

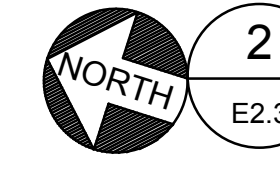
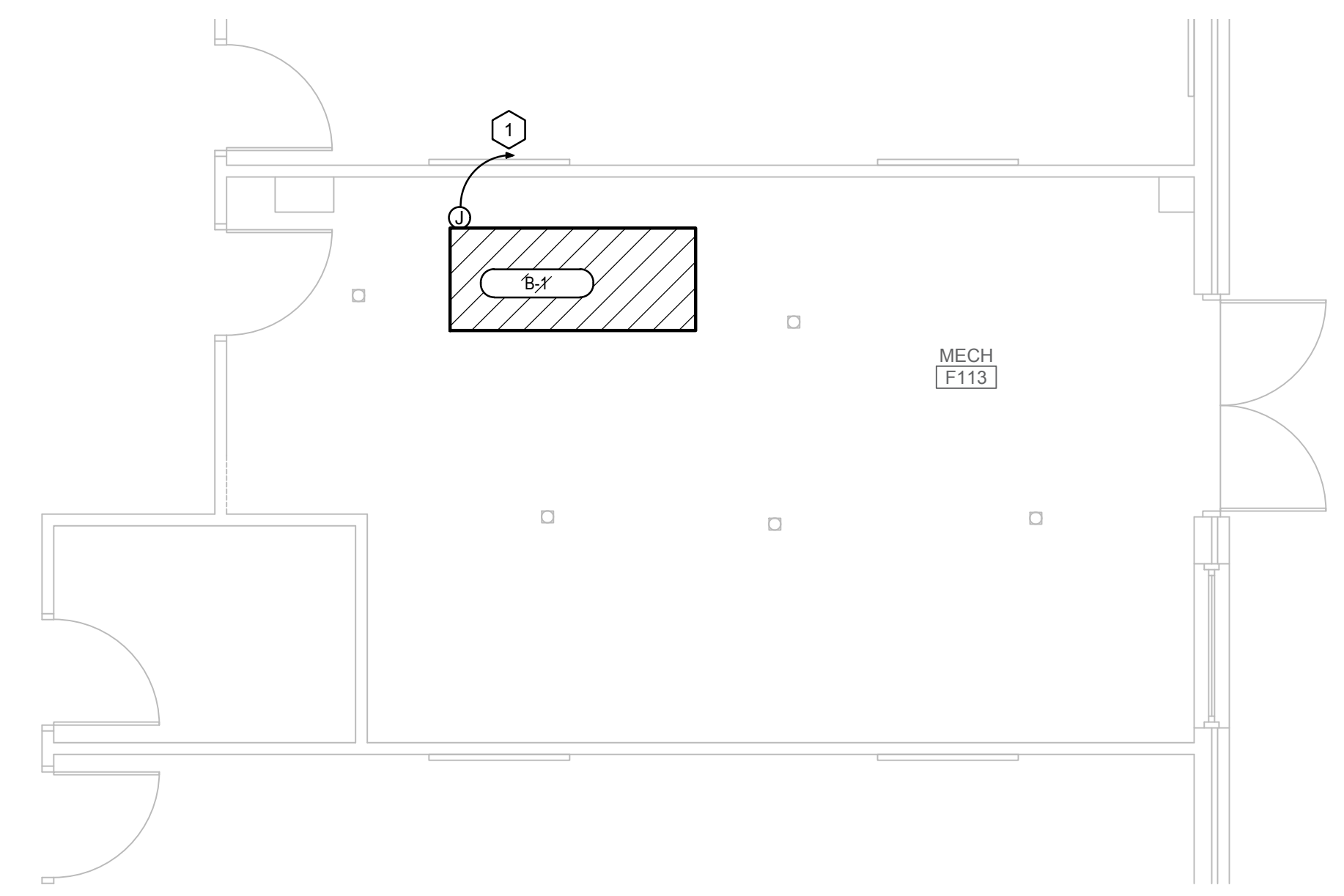


**1 MECH F113 MECHANICAL DEMOLITION PLAN**  
 NORTH MD1.2 1/4" = 1.0'





**1** ELECTRICAL NEW WORK PLAN - FIRST FLOOR - BUILDING G  
E2.3 1/8" = 1.0'



**2** MECH F113 ENLARGED ELECTRICAL PLAN  
E2.3 1/4" = 1.0'

**ELECTRICAL KEYED NOTES:**  
 1 NEW 208V, 3-PHASE CIRCUIT USING 3#12, 1#12 GROUND IN 1/2" CONDUIT FED FROM NEW DEDICATED 20A 3-POLE BREAKER IN PANEL FL.



**BLINN BUILDINGS A & G**

**2598 BLINN BLVD  
BRYAN, TEXAS 77802**

Drawn MD  
 Checked MD  
 Date 13 JANUARY 2025  
 CZE Project No. 240566  
 Revisions  
 Addendum #1 01/13/2025

SHEET TITLE  
**ELECTRICAL NEW  
 WORK PLAN - FIRST  
 FLOOR - BUILDING G**

SHEET NO.

**E2.3**