



**YOUR PROJECT · OUR PRIORITY · NO EXCUSES**

**ADDENDUM 01**  
**East Central CTE Expansion**

Date: Monday July 15, 2024

Project #: 0155.22.009

Project Name: East Central CTE Expansion  
Jackson County School District  
5500 Hurley Wade Rd.  
Moss Point, MS 39562

Owner: Jackson County School District  
12425 MS-57  
Vancleave, MS 39565

To: All Prospective Bidders

From: Vanessa Hemenway, AIA

**Bidders are hereby informed that the Project Manual and Drawings are modified as follows:**

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal signed and stamped date of July 03, 2024. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein.

Total Number of Pages in this Addendum: 13 Pages

**PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:**

A1. Please Clarify the thickness and R-Value of the Metal Building insulation for the roof and walls. **The roof PEMB insulation is R-11 vinyl faced+R19 unfaced min. Stand-off clips as required per manuf. Please refer to the finish schedule for locations where liner panels occur at the ceilings, to be secured to the underside of the PEMB roof purlins. The walls shall receive R-13 PEMB vinyl faced insulation at most locations. See the drawings for locations where Insulated metal panels occur as well as additional, inbound rigid insulation occurs.**

**PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)**

*Note: If you do not see your question answered, then we are still researching or working on a solution.*

B1. None this Addendum.

**PART C: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:**

C1. Architectural:  
1. A601: Replace this sheet in its entirety.

C2. Electrical:

Addendum 01  
East Central CTE Expansion

0155.22.009

1. E111: Replace this sheet in its entirety.
2. E112: Replace this sheet in its entirety.
3. E151: Replace this sheet in its entirety.
4. E621: Replace this sheet in its entirety.

**PART D: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS**

D1. 133419 – Metal Building Systems. Roof insulation values clarified.

**PART E: APPROVED PRODUCT/VENDOR EQUALS**

E1. W.R Meadows Air-Sheild SMP is an approved substitution for the Air Barrier as specified in section 071300.

**END OF ADDENDUM 01**



SCALE: As indicated  
PROJECT NO: 0155.22.009  
DRAWN BY: VJH  
CHECKED BY: VJH

**OPENING SCHEDULE**

| NO.   | DATE     | REVISION / SUBMITTAL    |
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| REV 0 | 07/03/24 | ISSUED FOR CONSTRUCTION |
| REV 1 | 07/15/24 | ADDENDUM 01             |

**A601**  
VERIFY SCALES  
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**OPENING SCHEDULE**

| DOOR NO. | SINGLE/PAIR | DOOR   |        |      | GLASS | FRAME |       |      |      | RATING  | CLOSER REQ. | REMARKS | DOOR NO. |
|----------|-------------|--------|--------|------|-------|-------|-------|------|------|---------|-------------|---------|----------|
|          |             | W      | H      | TYPE |       | MTL   | GLASS | HEAD | JAMB |         |             |         |          |
| 100A     | P           | 6'-0"  | 7'-2"  | 3    | ASF   | G-6   | ASF   | 1    | IG-1 | 1/A610  | 2/A610      | 3/A610  | 100A     |
| 101A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | ASF   | 5    | ---  | 12/A612 | 13/A612     | ---     | 101A     |
| 102.1    | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A611  | 2/A611      | 3/A611  | 102.1    |
| 102A     | P           | 6'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | 3/A612  | 102A     |
| 103A     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | ---     | 103A     |
| 104A     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 3    | G-2  | 1/A612  | 2/A612      | 3/A612  | 104A     |
| 104B     | S           | 3'-0"  | 7'-0"  | 2    | GHM   | ---   | GHM   | 2    | ---  | 1/A611  | 2/A611      | 3/A611  | 104B     |
| 104C     | OCDI        | 10'-0" | 10'-0" | 4    | ASI   | ---   | GS    | 4    | ---  | 6/A611  | 7/A611      | 8/A611  | 104C     |
| 104D     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | 3/A612  | 104D     |
| 105A     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | ---     | 105A     |
| 105A     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 6    | G-2  | 4/A612  | 3/A612      | 3/A612  | 105A     |
| 107A     | P           | 6'-0"  | 7'-0"  | 2    | WD    | G-2   | ASF   | 5    | ---  | 8/A612  | 9/A612      | ---     | 107A     |
| 107B     | P           | 6'-0"  | 7'-0"  | 2    | GHM   | ---   | GHM   | 2    | ---  | 4/A611  | 5/A611      | 3/A611  | 107B     |
| 108A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 108A     |
| 108A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 108A     |
| 108A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 3    | G-2  | 1/A612  | 2/A612      | ---     | 108A     |
| 111A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 3    | G-2  | 1/A612  | 2/A612      | ---     | 111A     |
| 111B     | P           | 6'-0"  | 7'-0"  | 2    | GHM   | ---   | GHM   | 2    | ---  | 4/A611  | 5/A611      | 3/A611  | 111B     |
| 112A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 6    | G-2  | 1/A612  | 2/A612      | ---     | 112A     |
| 113A     | P           | 6'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 113A     |
| 114A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 6    | G-2  | 1/A612  | 2/A612      | ---     | 114A     |
| 115A     | P           | 6'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 115A     |
| 116A     | P           | 6'-0"  | 7'-0"  | 2    | GHM   | G-6   | GHM   | 2    | ---  | 1/A611  | 2/A611      | 3/A611  | 116A     |
| 116B     | P           | 10'-0" | 9'-0"  | 4    | GHM   | G-6   | GHM   | 4    | ---  | 6/A611  | 7/A611      | 8/A611  | 116B     |
| 117A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 3    | G-2  | 1/A612  | 2/A612      | ---     | 117A     |
| 117B     | P           | 6'-0"  | 7'-0"  | 1    | WD    | G-2   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 117B     |
| 118A     | P           | 6'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A611  | 2/A611      | 3/A611  | 118A     |
| 118A     | P           | 6'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A611  | 2/A611      | 3/A611  | 118A     |
| 120A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 3    | G-2  | 1/A612  | 2/A612      | ---     | 120A     |
| 120B     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 3    | G-2  | 1/A612  | 2/A612      | 3/A612  | 120B     |
| 121A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 121A     |
| 122A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 122A     |
| 123A     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | 3/A612  | 123A     |
| 123B     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 123B     |
| 124A     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | 3/A612  | 124A     |
| 124B     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 124B     |
| 125A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | HM    | 2    | ---  | 1/A612  | 2/A612      | ---     | 125A     |
| 126A     | S           | 3'-0"  | 7'-0"  | 2    | GHM   | ---   | GHM   | 2    | ---  | 1/A611  | 2/A611      | 3/A611  | 126A     |
| 126B     | OCDI        | 10'-0" | 9'-0"  | 4    | ASI   | ---   | GS    | 4    | ---  | 6/A611  | 7/A611      | 8/A611  | 126B     |
| 126C     | S           | 3'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | 3/A612  | 126C     |
| 127A     | P           | 6'-0"  | 7'-0"  | 1    | GHM   | ---   | GHM   | 2    | ---  | 1/A612  | 2/A612      | 3/A612  | 127A     |
| 128A     | S           | 3'-0"  | 7'-0"  | 2    | WD    | G-2   | HM    | 6    | ---  | 10/A612 | 11/A612     | ---     | 128A     |
| 128A     | S           | 3'-0"  | 7'-0"  | 5    | GHM   | G-2   | GHM   | 6    | ---  | 8/A612  | 9/A612      | 3/A612  | 128A     |
| 130A     | S           | 3'-0"  | 7'-0"  | 3    | WD    | ---   | ASF   | 5    | ---  | 10/A612 | 11/A612     | ---     | 130A     |
| 131A     | S           | 3'-0"  | 7'-0"  | 1    | WD    | ---   | ASF   | 5    | ---  | 12/A612 | 13/A612     | ---     | 131A     |

**GLAZING TYPES**

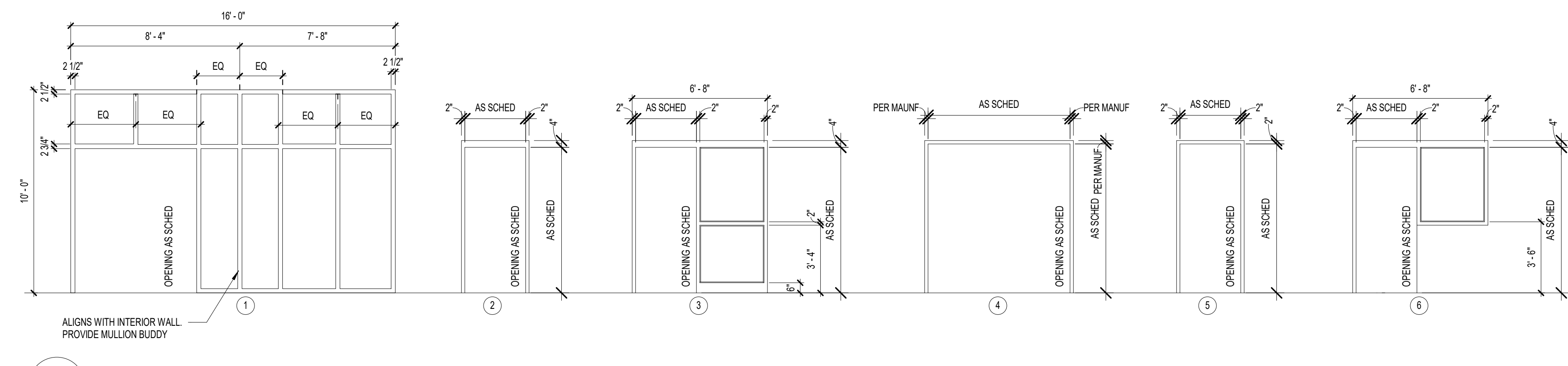
- G-2 CLEAR SAFETY GLAZING  
APPLICATION: INTERIOR WINDOWS
- G-6 SOLAR CONTROL LAMINATED TINTED GLAZING  
APPLICATION: IMPACT RESISTANT EXTERIOR DOOR GLAZING
- IG-1 SOLAR CONTROL INSULATED LAMINATED TINTED GLAZING  
APPLICATION: IMPACT RESISTANT EXTERIOR OPENING FRAME GLAZING
- IG-3 INSULATED SPANDREL PANEL

**OPENING SCHEDULE KEY**

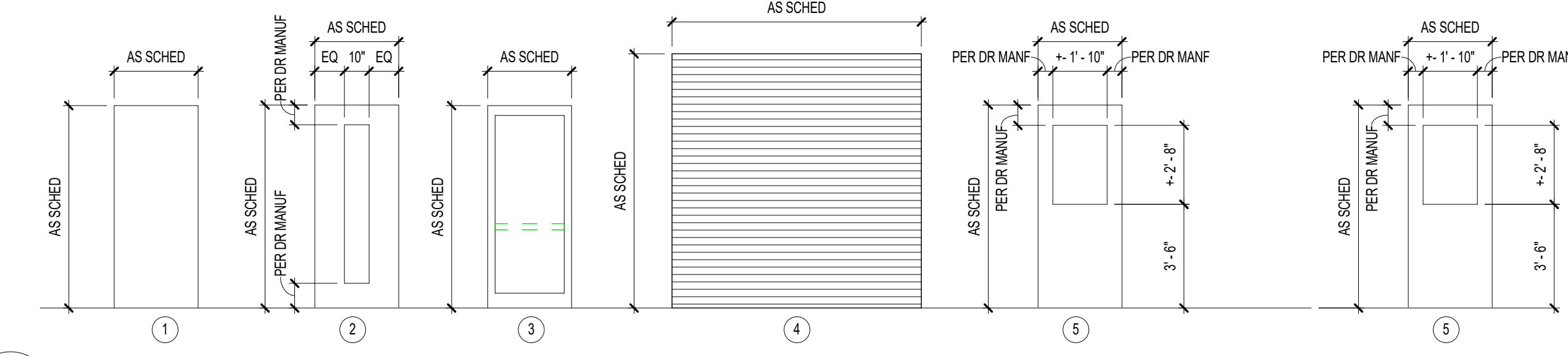
- ASF ALUMINUM STOREFRONT
- ASI ALUMINUM SLAT INSULATED
- GHM GALVANIZED HOLLOW METAL
- GHM GALVANIZED HOLLOW METAL INSULATED
- GS GALVANIZED STEEL
- HM HOLLOW METAL
- OCDI OVERHEAD COILING DOOR INSULATED
- WD WOOD

**OPENING SCHED REMARKS**

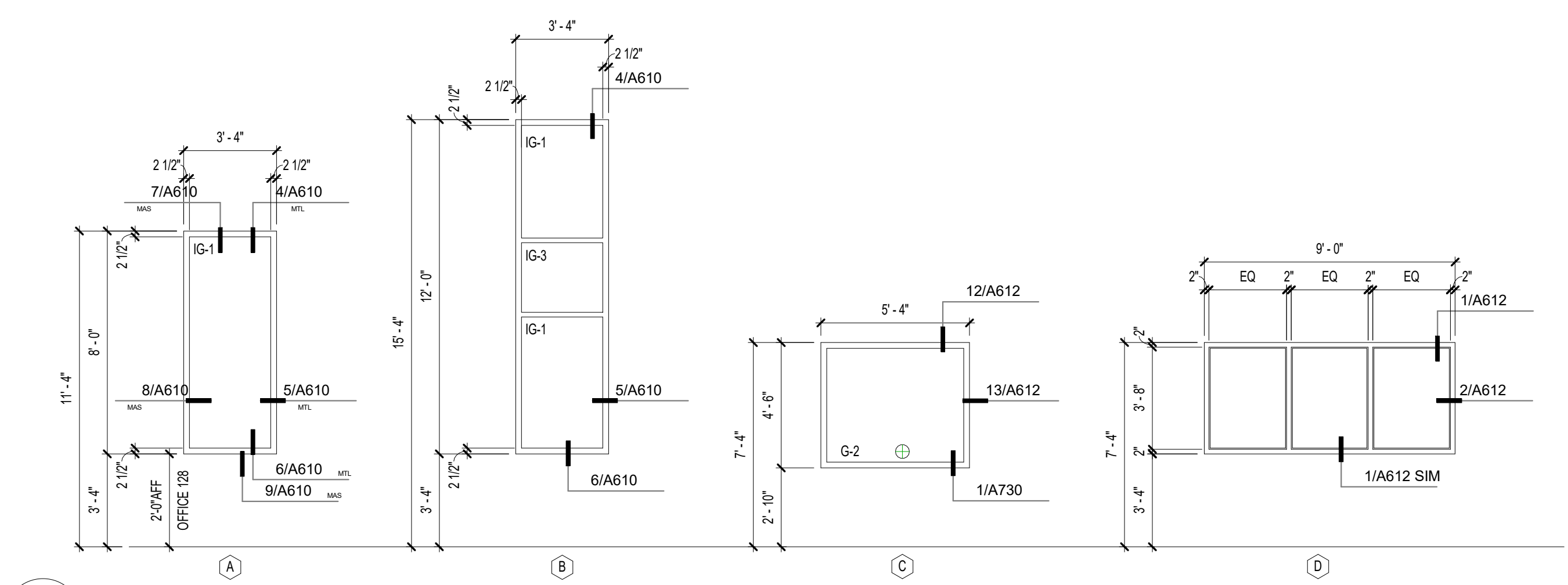
- A. PROVIDE INSULATED DOOR AND GASKETING. (LABSHOP SPACE IS NOT FULLY CONDITIONED).
- B. PROVIDE BLINDS



**1 FRAME TYPES**  
1/4" = 1'-0"

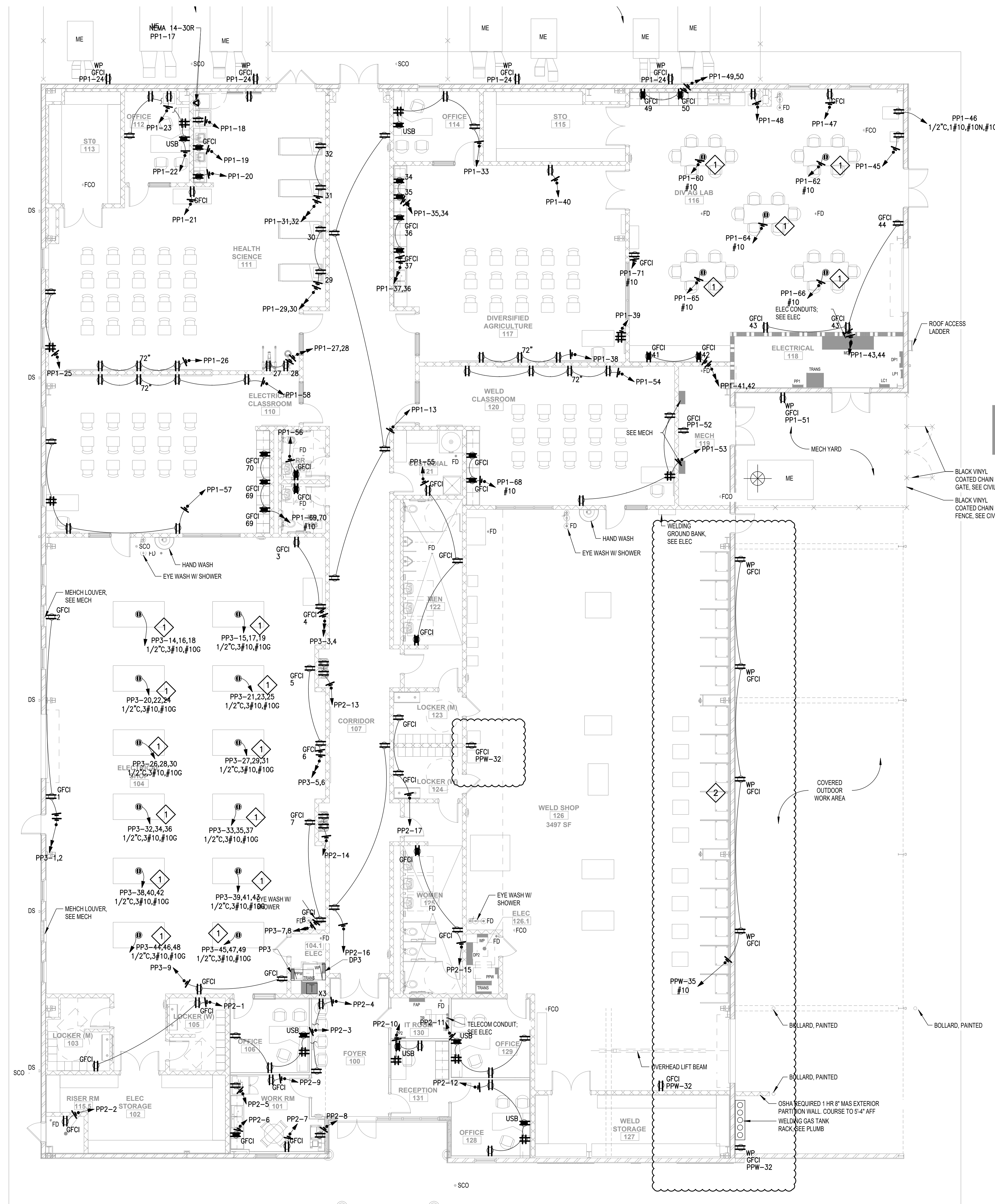


**2 DOOR TYPES**  
1/4" = 1'-0"



**3 WINDOW TYPES**  
1/4" = 1'-0"

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**DRAWING E111 NOTES**

- ALL RECEPTACLE CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED. IF MORE THAN 100'-0" TO THE FIRST CURRENT-CONSUMING DEVICE, THEN CONDUCTOR SHALL BE #10 AWG.
- ALL RECEPTACLES SHALL BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
- ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
- CONTRACTOR SHALL COORDINATE COUNTER TOP RECEPTACLES AND ALL RECEPTACLES IN MILLWORK WITH ARCHITECTURAL SHEETS.
- ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

**DRAWING E111 SPECIFIC NOTES**

- CONTRACTOR SHALL PROVIDE AND INSTALL CORD REEL. CONTRACTOR SHALL REFERENCE SHEET E502 FOR DETAIL OF CORD REEL.
- RECEPTACLES SHALL BE MOUNTED INSIDE THE WELDING BOOTH. COORDINATE WITH ENGINEER FOR EXACT LOCATION.

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REGISTERED PROFESSIONAL ENGINEER  
STATE OF MISSISSIPPI  
17411

**EAST CENTRAL CTE  
JACKSON COUNTY SCHOOL DISTRICT**  
5500 HURLEY WADE ROAD,  
MOSS POINT, MS 39562

SCALE AS SHOWN  
PROJECT NO: 015522.009  
DRAWN BY: DLM  
CHECKED BY: KDR

**ELECTRICAL POWER PLAN**

| NO.    | DATE     | REVISION / SUBMITTAL    |
|--------|----------|-------------------------|
| REV. 0 | 07.03.24 | ISSUED FOR CONSTRUCTION |
| REV. 1 | 07.15.24 | ADDENDUM 01             |

**E111**

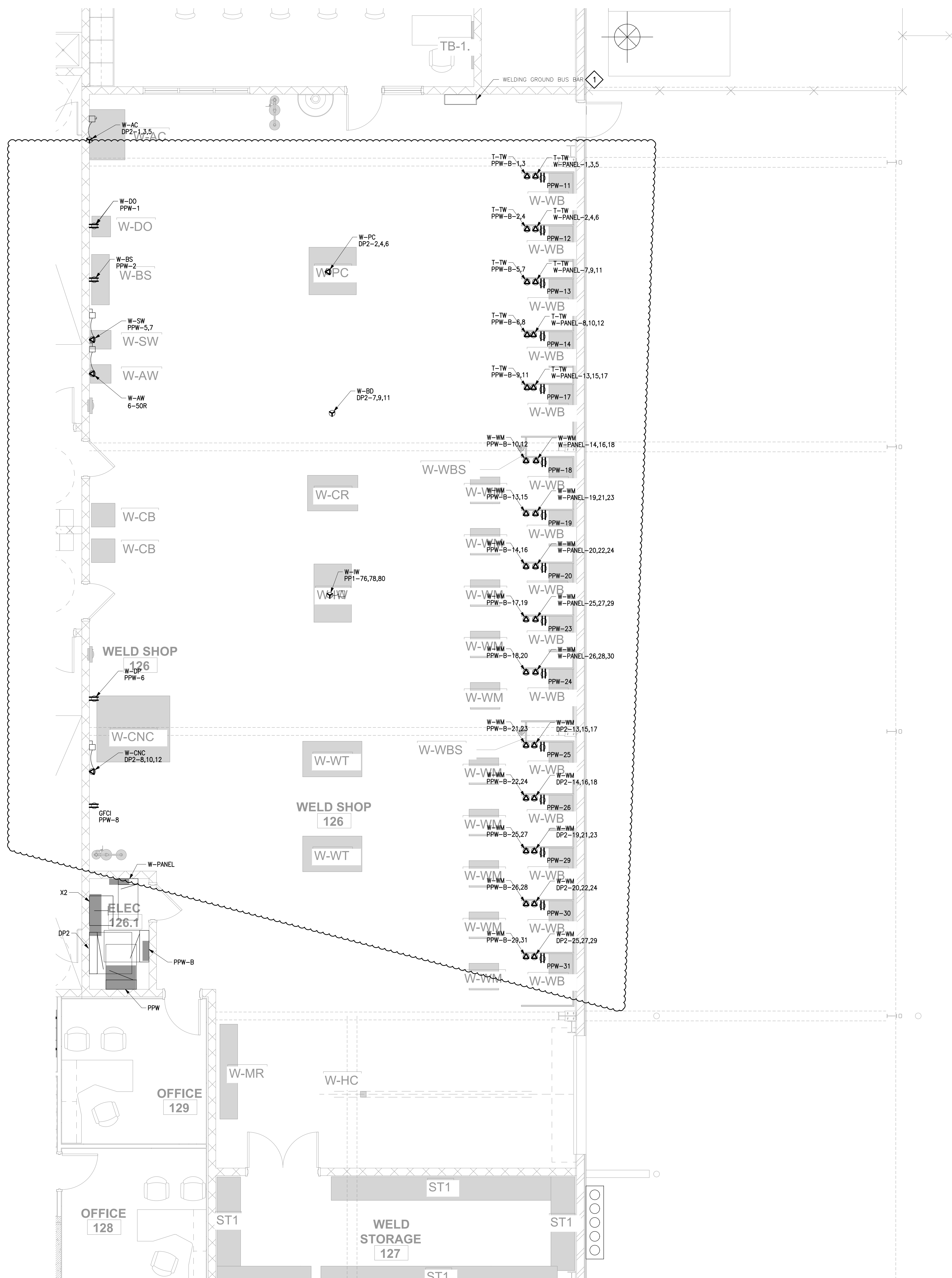
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**1 ELECTRICAL POWER PLAN**  
SCALE: 1/8" = 1'

THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERING PLANS ARE THE OFFICIAL DOCUMENTS SUBMITTED TO THE APPROVING AUTHORITY FOR THESE PLANS. CONTRACTOR / SUBCONTRACTOR / AND/OR OWNER SHALL CONSULT ENGINEERED PLANS TO VERIFY ANY CONDITIONS OR RESTRICTIONS THAT MAY HAVE BEEN REQUIRED BY THE APPROVING AUTHORITY OR APPROVED BY THE REGISTERED ENGINEER OF RECORD. IF DISCREPANCIES OCCUR, THE ORIGINAL, SIGNED, DATED AND SEALED ENGINEERED PLAN SET SHALL GOVERN ANY OTHER PLANS. THE DRAWINGS, DETAILS, AND NOTES THAT APPEAR ON THIS SHEET ARE COPYRIGHTED BY MACHADO | PATANO, P.L.L.C. AND CLAIM ALL RIGHTS OF THE COPYRIGHT LAWS.

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**1 ELECTRICAL POWER PLAN - WELDING SHOP**  
 SCALE: 1/4" = 1'

**DRAWING E112 NOTES**

1. ALL RECEPTACLE CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED. IF MORE THAN 100'-0" TO THE FIRST CURRENT-CONSUMING DEVICE, THEN CONDUCTOR SHALL BE #10 AWG.
2. ALL RECEPTACLES SHALL BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
3. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
4. CONTRACTOR SHALL COORDINATE COUNTER TOP RECEPTACLES AND ALL RECEPTACLES IN MILLWORK WITH ARCHITECTURAL SHEETS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SAFETY SWITCHES AS SHOWN. SIZE PER EQUIPMENT MANUFACTURER RECOMMENDATIONS. ALL SAFETY SWITCHES SHALL BE HEAVY-DUTY. NEMA 12/3R - OUTDOORS, NEMA 1 - INDOORS.
6. 240V WELDING MACHINE RECEPTACLES (UNLESS OTHERWISE NOTED) SHALL BE MELTRIC DSN60 RECEPTACLE, MODEL 63-64043 MOUNTED ON A HOFFMAN A606LP JUNCTION BOX. PROVIDE AT EACH WELDING BOOTH (TYPICAL OF 2). CONTRACTOR SHALL PROVIDE SHOP PLAN SHOWING CONDUIT ROUTING FOR ENGINEERING APPROVAL.
7. ALL 480V WELDING MACHINE RECEPTACLES (UNLESS OTHERWISE NOTED) SHALL BE A MELTRIC DSN30 RECEPTACLE, MODEL NUMBER 65-34213-K04-T116 MOUNTED ON A HOFFMAN A606LP JUNCTION BOX. PROVIDE AT EACH WELDING BOOTH (TYPICAL OF 2). CONTRACTOR SHALL PROVIDE SHOP PLAN SHOWING CONDUIT ROUTING FOR ENGINEERING APPROVAL.

**DRAWING E112 SPECIFIC NOTES**

- 1** CONTRACTOR SHALL BOND ALL WELDING BOOTHS AND TABLES INTO THE BUILDING GROUNDING ELECTRODE SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL A #4/0 BARE COPPER WIRE FROM EACH WELDING BOOTH/TABLES TO THE GROUND BUS BAR. CONTRACTOR SHALL PROVIDE AND INSTALL A #4/0 BARE COPPER WIRE FROM THE GROUND BUS BAR TO THE BUILDING GROUNDING ELECTRODE SYSTEM. CONTRACTOR SHALL SIZE THE BUS BAR AS REQUIRED IN ORDER TO ACCOMMODATE ALL GROUND WIRES.

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**EAST CENTRAL CTE  
 JACKSON COUNTY SCHOOL DISTRICT**  
 5500 HURLEY WADE ROAD,  
 MOSS POINT, MS 39562

SCALE AS SHOWN  
 PROJECT NO: 0155.22.009  
 DRAWN BY: DLM  
 CHECKED BY: KDR

**ELECTRICAL POWER PLAN - WELDING SHOP**

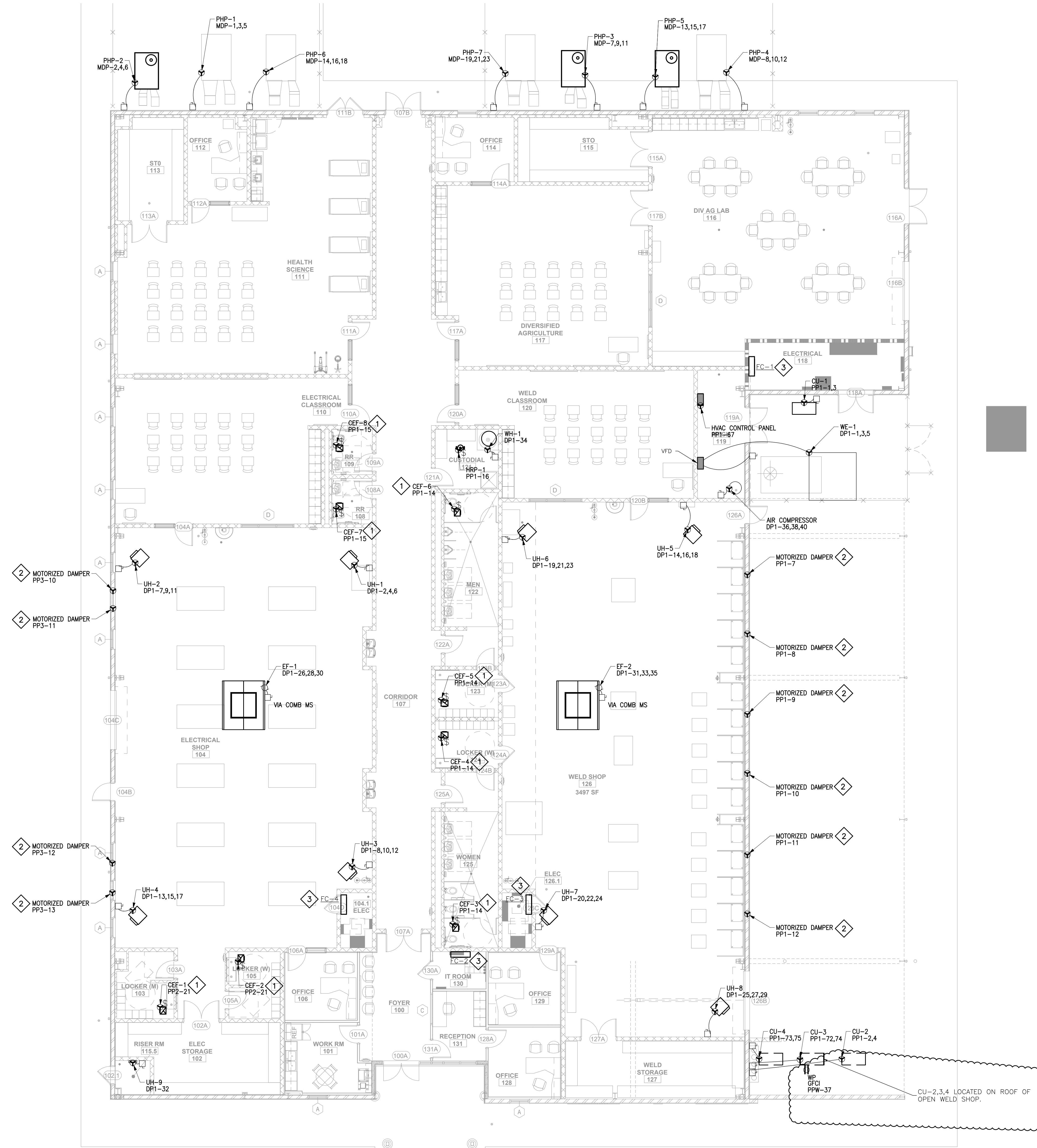
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**E112**

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1 MECHANICAL POWER PLAN  
 SCALE: 1/8" = 1'

DRAWING E151 NOTES

1. ALL SAFETY SWITCHES SHALL BE PROVIDED AND MOUNTED BY THE E.C. COORDINATE EXACT REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER.
2. COORDINATE EXACT WIRING REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGHING IN.
3. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY. NEMA 1 - INDOORS, NEMA 12/3R - OUTDOORS.
4. ALL SMOKE DUCT DETECTORS AND DAMPER SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY THE CONTROLS CONTRACTOR. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR TYING INTO THE FIRE ALARM SYSTEM. CONTRACTOR SHALL REFERENCE MECHANICAL SHEETS FOR EXACT QUANTITY AND LOCATIONS.
5. CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS FOR CEILING EXHAUST FANS.

DRAWING E151 SPECIFIC NOTES

1. MOTION SENSORS FOR EXHAUST FANS ARE PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
2. CONTRACTOR SHALL ROUTE MOTORIZED DAMPER THROUGH EXHAUST FAN MOTOR STARTER CONTACTS. CONTRACTOR SHALL REFERENCE MECHANICAL DRAWINGS.
3. CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND FEED FOR FAN COIL TO BE POWERED BY OUTSIDE UNITS. CONTRACTOR SHALL REFERENCE MECHANICAL DRAWINGS FOR FAN COILS.

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 CHECKED BY: KDR

MECHANICAL POWER PLAN

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**E151**

VERIFY SCALES  
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DRAWING E621 NOTES

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL ARC-FLASH LABELS ON ALL EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR ARC-FLASH STUDY PER SPECIFICATION.



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SCALES SHOWN
PROJECT NO: 015522.009
DRAWN BY: DLM
CHECKED BY: KDR

ELECTRICAL PANELBOARD SCHEDULES

Table with 2 columns: NO., DATE REVISION / SUBMITTAL. Includes revision history for REV. 0, 1, and 2.

E621

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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PP1 ROOM ELECTRICAL RM. MOUNTING SURFACE. FED FROM X1. VOLTAGE: 208Y/120V 3P 4W. BUS AMPS: 225. AIC: 22,000. MAIN BKR: 225. LUGS: STANDARD. Includes circuit descriptions and load calculations.

PP2 ROOM RM. 130 MOUNTING SURFACE. FED FROM PP1. VOLTAGE: 208Y/120V 3P 4W. BUS AMPS: 100. AIC: 22,000. MAIN BKR: 100. LUGS: STANDARD. Includes circuit descriptions and load calculations.

PP3 ROOM ELECTRICAL LAB. MOUNTING SURFACE. FED FROM X3. VOLTAGE: 208Y/120V 3P 4W. BUS AMPS: 225. AIC: 22,000. MAIN BKR: 225. LUGS: STANDARD. Includes circuit descriptions and load calculations.

PPW ROOM WELDING SHOP. MOUNTING SURFACE. FED FROM X2. VOLTAGE: 240/120V 3P 4W. BUS AMPS: 600. AIC: 22,000. MAIN BKR: 600. LUGS: STANDARD. Includes circuit descriptions and load calculations.

W-PANEL ROOM WELDING SHOP. MOUNTING SURFACE. FED FROM DP2. VOLTAGE: 480Y/277V 3P 4W. BUS AMPS: 225. AIC: 42,000. MAIN BKR: 225. LUGS: STANDARD. Includes circuit descriptions and load calculations.

PPW-B ROOM ELECTRICAL RM. 126.1 MOUNTING SURFACE. FED FROM PPW. VOLTAGE: 240/120V 2P 3W. BUS AMPS: 600. AIC: 22,000. MAIN BKR: 600. LUGS: STANDARD. Includes circuit descriptions and load calculations.

LP1 ROOM ELECTRICAL RM. MOUNTING SURFACE. FED FROM MDP. VOLTAGE: 480Y/277V 3P 4W. BUS AMPS: 100. AIC: 42,000. MAIN BKR: 100. LUGS: STANDARD. Includes circuit descriptions and load calculations.

PRINTED: 7/15/2024 1:47 PM BY: Dylan Mennhennett LAST SAVED: 7/15/2024 1:45 PM BY: Dylan Mennhennett

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**SECTION 133419  
METAL BUILDING SYSTEMS**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Manufacturer-engineered, shop-fabricated structural steel building frame.
- B. Metal roof panels including gutters and downspouts.
- C. Exterior Wall Insulation
- D. Roof Insulation
- E. Exterior overhead doors and louvers.

**1.02 REFERENCE STANDARDS**

- A. AISC 360 - Specification for Structural Steel Buildings; 2022.
- B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
- C. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.
- D. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.
- E. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.
- F. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing; 2021.
- G. ASTM A529/A529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality; 2019.
- H. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- I. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process; 2023.
- J. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2023.
- K. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- L. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.
- M. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength; 2020.
- N. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength; 2023.
- O. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.
- P. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023).
- Q. IAS AC472 - Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems; 2018, with Editorial Revision (2019).
- R. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic); 2019.
- S. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Current Edition, Including All Revisions.



**1.03 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Convene one week before starting work of this section.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on profiles, component dimensions, fasteners.
- C. Shop Drawings: Indicate assembly dimensions including field dimensions of existing building components to insure proper alignment of new building, provide locations of structural members, connections; wall and roof system dimensions, panel layout, general construction details, anchorages and method of anchorage, installation; framing anchor bolt settings, sizes, and locations from datum, foundation loads; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; provide professional seal and signature.
- D. Samples: Submit two samples of precoated metal panels for each color selected, 2x4 inch in size illustrating color and texture of finish.
- E. Manufacturer's Instructions: Indicate preparation requirements, anchor bolt placement.
- F. Erection Drawings: Indicate members by label, assembly sequence, and temporary erection bracing.
- G. Certification:
  - 1. Submit written certification prepared, signed and sealed by a Professional Engineer, licensed and registered to practice in the State of Mississippi, verifying the building design meets requirements of adopted building code, before fabrication and/or delivery of materials to project site.
  - 2. Provide certification that roof system has been tested and listed by Underwriters Laboratories, Inc. to have a Wind Uplift Classification of Class 90.
- H. Manufacturer's Qualification Statement: Provide documentation showing metal building manufacturer is accredited under IAS AC472.
  - 1. Include statement that manufacturer designs and fabricates metal building system as integrated components and assemblies, including but not limited to primary structural members, secondary members, joints, roof, and wall cladding components specifically designed to support and transfer loads and properly assembled components form a complete or partial building shell.
- I. Project Record Documents: Record actual locations of concealed components and utilities.

**1.05 QUALITY ASSURANCE**

- A. Designer Qualifications: Design structural components, develop shop drawings, and perform shop and site work under direct supervision of a Professional Structural Engineer experienced in design of this type of work.
  - 1. Design Engineer Qualifications: Licensed in the State in which the Project is located.
  - 2. Comply with applicable code for submission of design calculations as required for acquiring permits.
  - 3. Cooperate with regulatory agency or authorities having jurisdiction (AHJ), and provide data as requested.
- B. All work shown on these documents are intended as a guide only. The contractor shall be responsible for producing complete signed and stamped shop drawings and calculations for review.
- C. Manufacturer Qualifications: Company specializing in the manufacture of products similar to those required for this project.
  - 1. Not less than 10 years of documented experience
- D. Erector Qualifications: Company specializing in performing the work of this section approved by manufacturer.

**1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver and store all components so they will not be damaged or deformed.
- B. Stack all materials on platforms or pallets, covered with tarpaulins or other suitable weathertight and ventilated covering. Store all metal sheets or panel components in order for water accumulations to drain freely. Do not store sheets or panels in contact with other materials which might cause staining. Do NOT store materials on the ground.
- C. Protect materials and finish during storage, handling, and installation to prevent damage.

**1.07 WARRANTY**

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.
- C. Provide 20 year manufacturer warranty for wall, roof, and soffit panel finish.
  - 1. Include coverage for exterior pre-finished surfaces to cover pre-finished color coat against chipping, cracking or crazing, blistering, peeling, chalking, or fading. Include coverage for weather tightness of building enclosure elements after installation.
- D. Provide 20 year No Dollar Limit (NDL) weathertightness warranty.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Metal Buildings Systems:
  - 1. Butler Manufacturing Company: [www.butlermfg.com](http://www.butlermfg.com).
  - 2. Ceco Building Systems: [www.cecobuildings.com](http://www.cecobuildings.com).
  - 3. Kirby Building Systems, a Nucor Company; \_\_\_\_\_: [www.kirbybuildingsystems.com/#sle](http://www.kirbybuildingsystems.com/#sle).
  - 4. VP Buildings: [www.vp.com](http://www.vp.com).
  - 5. Whirlwind Metal Buildings
  - 6. Substitutions: See Section 016000 - Product Requirements.

**2.02 ASSEMBLIES**

- A. Single span rigid frame, lean to and comments as required for a code compliant design.
- B. Bay Spacing: As indicated on the drawings
- C. Primary Framing: Rigid frame of rafter beams and straight columns, canopy beams and end wall columns, and wind bracing.
- D. Secondary Framing: Purlins, and other items detailed.
- E. Wall System: See Section 074213
- F. Roof System: Preformed metal panels oriented parallel to slope, with sub-girt framing/anchorage assembly, insulation, and liner panels, and accessory components.
  - 1. Provide all secondary framing and supports as required for any roof mounted equipment or penetrations.
- G. Roof Slope: As indicated on the drawings.

**2.03 PERFORMANCE REQUIREMENTS**

- A. Installed Thermal Resistance of Wall System: R-value of 13.
- B. Installed Thermal Resistance of Roof System: R- value of 30. R-11 + R-19.
  - 1. Provide standoff Clips as required, see drawings.
- C. Design structural members to withstand dead load, and design loads due to pressure and suction of wind calculated in accordance with ASCE 7-16 code and as called for on the drawings. Whichever is most stringent governs.
- D. Design structural members to withstand Class 90 wind uplift in accordance with UL 580.

- E. Design Structural members to accommodate openings and accessories as shown and dimensioned in the drawings.
- F. Provide drainage to exterior for water entering or condensation occurring within wall or roof system.
- G. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of \_\_\_\_ degrees F.
- H. Size and fabricate wall and roof systems free of distortion or defects detrimental to appearance or performance.

#### **2.04 MATERIALS - FRAMING**

- A. Structural Steel Members: ASTM A36/A36M.
- B. Structural Tubing: ASTM A500/A500M Grade B cold-formed.
- C. Plate or Bar Stock: ASTM A529/A529M, Grade 50.
- D. Anchor Bolts: ASTM F1554, Grade 36, Class 1A, with no preference for protective coating.
- E. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1; galvanized to ASTM A153/A153M.
- F. Welding Materials: Perform in accordance with AWS D1.1/D1.1M.
- G. Primer: SSPC-Paint 20 zinc rich.
- H. Grout: ASTM C1107/C1107M; Non-shrink; premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
  - 1. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch.
  - 2. Minimum Compressive Strength at 28 Days: 7,000 pounds per square inch.

#### **2.05 MATERIALS - WALLS AND ROOF**

- A. Steel Sheet: ASTM A792/A792M aluminum-zinc alloy coated to AZ50/AZM150.
- B. Insulation: ASTM C665 Type I; 4 inches thick.
  - 1. Facing: Sheet vinyl, .004 inch thick, white
- C. Joint Seal Gaskets: Manufacturer's standard type.
- D. Fasteners: Manufacturer's standard type, galvanized to comply with requirements of ASTM A153/A153M, finish to match adjacent surfaces when exterior exposed.
- E. Bituminous Paint: Asphaltic type. For use as a dissimilar metal separation or as a separation when attaching members to concrete or CMU substrate.
- F. Sealant: ASTM C920, elastomeric sealant with movement capability of at least plus/minus 50 percent; 100 percent silicone; for exposed applications, match adjacent colors as closely as possible.
- G. Metal Mesh: Galvanized steel wire, woven.
- H. Trim, Closure Pieces, Caps, Flashings, Gutters, Downspouts, Rain Water Diverter, Fascias, and Infills: Same material, thickness and finish as exterior sheets; brake formed to required profiles.

#### **2.06 COMPONENTS**

#### **2.07 DESIGN CRITERIA**

- A. Installed Thermal Resistance of Wall System: R-value of R-13.
- B. Installed Thermal Resistance of Roof System: R-value of R-13.
- C. Design members to withstand dead load, and design loads due to pressure and suction of wind calculated in accordance with applicable code.
- D. Design members to withstand UL 580 Uplift Class 90.

- E. Permit movement of roofing components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature difference between interior structural framework and exterior of plus or minus 100 degrees F.

## **2.08 FABRICATION - FRAMING**

- A. Fabricate members in accordance with AISC 360 for plate, bar, tube, or rolled structural shapes.
- B. Anchor Bolts: Formed with bent shank, assembled with template for casting into concrete.
- C. Provide wall opening framing for doors and other accessory components.

## **2.09 FABRICATION - WALL AND ROOF PANELS**

- A. Exterior and Interior Wall Panels.
  - 1. See Specification section 074213 - MBCI Metal Wall Panels
  - 2. See Specification section 074213.19 KSPN Insulated Metal Wall Panels
- B. Roof Panel: Minimum 22 gauge .020 inch metal thickness, PBR Panel profile, lapped edges fitted with continuous gaskets.
  - 1. Equal to MBCI PBR Metal Panel
  - 2. Smooth Finish
- C. Girts/Purlins: Rolled formed structural shape to receive siding, roofing and liner sheet.
- D. Internal and External Corners: Same material thickness and finish as adjacent material, profile brake formed to required angles. Back brace mitered internal corners with .020 inch thick sheet.
- E. Expansion Joints: Same material and finish as adjacent material where exposed, .020 inch thick, manufacturer's standard brake formed type, of profile to suit system.
- F. Flashings, Closure Pieces, Fascia: Same material and finish as adjacent material, profile to suit system.
- G. Fasteners: To maintain load requirements and weather tight installation, same finish as cladding, non-corrosive type.

## **2.10 ROOF INSULATION SYSTEM**

### **2.11 WALL AND ROOF INSULATION SYSTEM**

- A. Provide Light Duty glass fiber vinyl faced insulation with 2" wide continuous vapor-tight edge tabs.
- B. Composite product shall have a less than 25 flame spread rating and a 50 smoke developed rating as tested in accordance with UL 723. Facing shall have a perm rating of .09 or better as tested in accordance with ASTM E96.

### **2.12 FABRICATION - GUTTERS AND DOWNSPOUTS**

- A. Fabricate of same material and finish as roofing metal.
- B. Form gutters and downspouts and scuppers of square profile and size indicated to collect and remove water. Fabricate with connection pieces.
- C. Form sections in maximum possible lengths. Hem exposed edges. Allow for expansion at joints.
- D. Fabricate support straps of same material and finish as roofing metal, color as selected.

### **2.13 FINISHES**

- A. Framing Members: Clean, prepare, and shop prime. Do not prime surfaces to be field welded.
- B. Exterior Surfaces of Wall Components and Accessories: Precoated enamel on steel of Polyvinylidene Difluoride (PVDF) finish, <> color as selected from manufacturer's standard range.

- C. Interior Surfaces of Roof Components and Accessories: Precoated enamel on steel of modified silicone finish, <> color as selected from manufacturer's standard range.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position

#### **3.02 ERECTION - FRAMING**

- A. Erect framing in accordance with AISC 360.
- B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing. Locate braced bays as indicated.
- C. Set column base plates with non-shrink grout to achieve full plate bearing.
- D. Do not field cut or alter structural members without approval.
- E. After erection, prime welds, abrasions, and surfaces not shop primed.

#### **3.03 ERECTION - WALL AND ROOF PANELS**

- A. Install in accordance with manufacturer's instructions.
- B. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.
- C. Fasten cladding system to structural supports, aligned level and plumb.
- D. Locate end laps over supports. End laps minimum 2 inches. Place side laps over bearing.
- E. Provide expansion joints where indicated.
- F. Use concealed fasteners.
- G. Install sealant and gaskets, providing weather tight installation. Field applied tape sealant or manufactured equivalent is required at all panel sidelaps and endlaps.

#### **3.04 ERECTION - GUTTERS AND DOWNSPOUTS**

- A. Rigidly support and secure components. Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts.
- B. Apply bituminous paint on surfaces in contact with cementitious materials.
- C. Slope gutters minimum 1/16" inch/ft.
- D. Install concrete splash pans under each downspout.

#### **3.05 TOLERANCES**

- A. Framing Members: 1/4 inch from level; 1/8 inch from plumb.
- B. Siding and Roofing: 1/8 inch from true position.

**END OF SECTION**