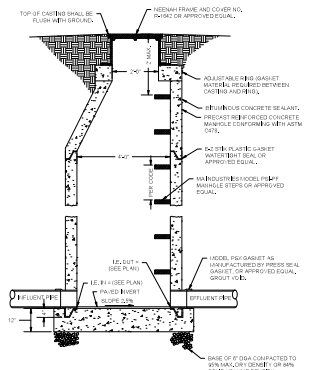
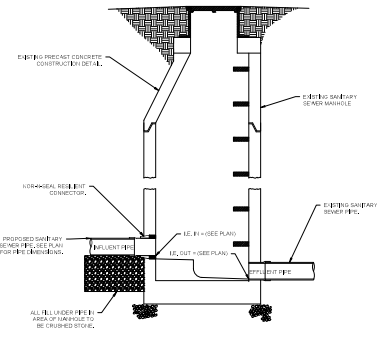
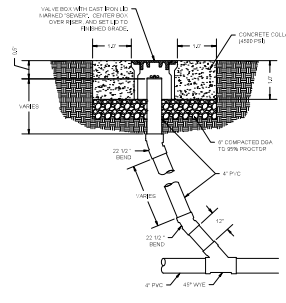
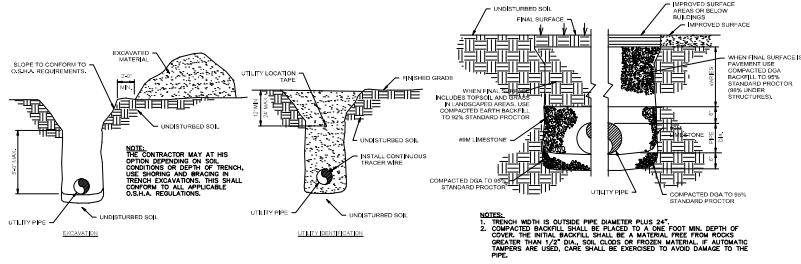


U1.4

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| 3   | REVISION          |            |
| 4   | REVISION          |            |
| 5   | REVISION          |            |
| 6   | REVISION          |            |
| 7   | REVISION          |            |
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| 17  | REVISION          |            |
| 18  | REVISION          |            |
| 19  | REVISION          |            |
| 20  | REVISION          |            |



ROSSANT ARCHITECTS

REVIEW

**SANITARY SEWER DETAILS**

Simpson Co. CTE Improvements & Alternative School Addition

Simpson County Board of Education

400 S College St., Monticello, KY 42134

PROJECT LOCATION: Simpson County, KY

PROJECT NO: 2023-001

DATE: 01/15/2024

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

SG

Project No: 2023-001

Sheet No: 001

Scale: N.T.S.

DATE: 01/15/2024

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

**MARCUM ENGINEERING, LLC**

2200 UNIVERSITY AVENUE, SUITE 200

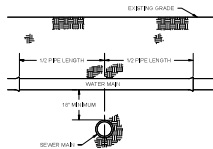
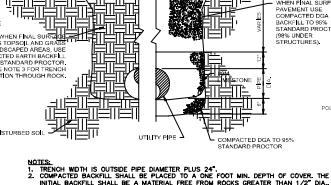
INDIANAPOLIS, IN 46202

TEL: 317.541.1000

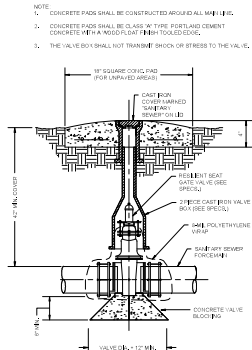
WWW.MARCUMENGINEERING.COM

**U4.2**

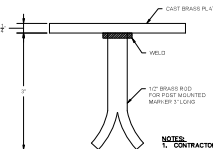
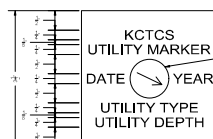
DATE: 01/15/2024



**4 WATER MAIN CROSSING SEWER**  
SCALE: N.T.S.



1. RFE DEPARTMENT CONNECTION  
2. BEN DENTING TOOL  
3. EXPOSED PIPE PAINTED RED  
4. 4" GALV. SALT PIPE  
5. ASPHALT SEALANT APPLIED ON ALL GROOVED CONNECTIONS UNDERGROUND  
6. 1/2" SALT CRIP VALVE  
7. GRANULITE FILL FOR DRIFTHOLE  
8. 2" GROOVED FLAN TO BELL  
9. 30" HELL ARROW  
10. FINISHED GRADE



**NOTES:**

1. CONTRACTOR SHALL PROVIDE AND UTILITY MARKERS AT EACH BUILDING ENTRANCE, AT EACH BEND AND AT EACH ROAD CROSSING
2. BRASS MARKER SHALL BE SET FLUSH IN CONCRETE AND BE FLUSH WITH FINISH GRADE.

| PIPE SIZE | DEAD-END OR<br>TEE | 14" BEND | 15" BEND | 16" BEND |
|-----------|--------------------|----------|----------|----------|
| 4"        | 40                 | 40       | 27       | 20       |
| 6"        | 50                 | 60       | 54       | 39       |
| 8"        | 66                 | 102      | 14       | 51       |
| 10"       | 110                | 180      | 69       | 44       |
| 12"       | 155                | 220      | 120      | 62       |
| 16"       | 260                | 340      | 190      | 90       |

**NOTES:**  
ALL DUST PROTECTIVE FITTINGS AND VALVES SHALL BE WRAPPED WITH A POLYETHYLENE WRAP, 6 MIL, INSTALLED TO THE CURRENT DATE OF THE WATER C-105.  
BLOOMING SHALL BE PERFORMED AFTER THE POLYETHYLENE WRAP IS IN PLACE.  
BLOOMING SHALL BE INSPECTED BY THE DESIGN ENGINEER'S INSPECTOR PRIOR TO BACKFILLING.  
THRUST BLOOMS TO BE PLACED AGAINST UNDISTURBED EARTH. USE ADDITIONAL CONCRETE AS REQUIRED FOR OVER EXCAVATION.  
THRUST BLOOMS SHALL BE COVERED WITH 6" OF 4" DIA. R.C.

**2**rosrarrant  
architects

**WATER DETAILS**  
Simpson Co. CTE Improvements & Alterations  
Simpson County Board of  
400 S College St. Franklin,  
MS 39230

**M.E. P. Engineer:**  
Marconi Engineering, LLC  
Fitchburg, NJ Office  
p 212.444.7274

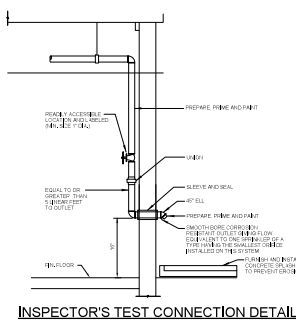
**Structural Engineer:**  
SPW Engineering & Testing  
Fitchburg, NJ Office  
p 212.443.1995

**Construction Manager:**  
Alliance Corporation  
p 212.651.8548

|                                                                                             |       |
|---------------------------------------------------------------------------------------------|-------|
| BG                                                                                          |       |
| Project no:                                                                                 | 34155 |
| Drawn by:                                                                                   | SAB   |
| Rev'd by:                                                                                   | EDM   |
| SHEET RELEASE                                                                               |       |
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| 6                                                                                           |       |
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| 8                                                                                           |       |
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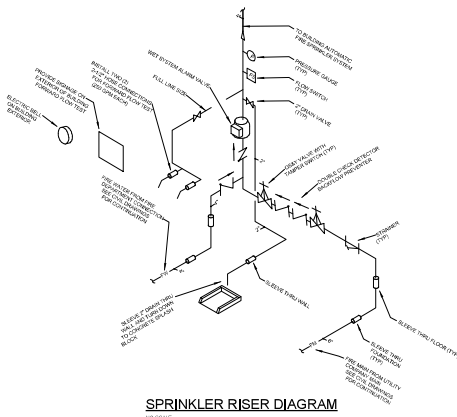
## U4.3

01/10/2023

[illegible][illegible]

| FIRE PROTECTION LEGEND                                                              |                                  |
|-------------------------------------------------------------------------------------|----------------------------------|
| SYMBOL                                                                              | DESCRIPTION                      |
|  | FIRE ALARM BELL                  |
|  | FIRE PROTECT BELL                |
|  | FIRE WATER SUPPLY                |
|  | REDWALL SPRINKLER                |
|  | GATE VALVE                       |
|  | DRY VALVE W/ FALSER SWITCH       |
|  | FIRE REDUCER                     |
|  | CHECK VALVE                      |
|  | DOUBLE CHECK BACKFLOW PREVENTION |
|  | FLOOD SWITCH                     |
|  | PRESSURE GAUGE                   |
|  | ELECTRICAL BELL                  |

| FIRE SUPPRESSION DESIGN CRITERIA                   |                                                     |
|----------------------------------------------------|-----------------------------------------------------|
| STATUS:                                            | 45                                                  |
| REQUIRE:                                           | 30                                                  |
| WATER FLOW:                                        | 0225 GPM                                            |
| SOURCE OF WATER SUPPLY:                            | NATURAL CITY FIRE DEPARTMENT                        |
| SOURCE OF WATER FLOW DATA:                         | NATURAL CITY FIRE DEPARTMENT                        |
| DATE OF WATER FLOW TEST:                           | 05/15/2014                                          |
| WATER FLOW TEST DEMAND:                            | 1500 GPM                                            |
| CLASSIFICATION OF HAZARDOUS OCCUPANCY OF BUILDING: | GROUP HAZARDOUS AND ORDINARY HAZARDOUS GROUPS 1 & 2 |
| SPECIFIC TYPES OF SUPPRESSION SYSTEMS:             | AUTOMATIC FIRE-EXTINGUISHING                        |
| NFPA STANDARDS FOLLOWED IN DESIGN:                 | NFPA 13 & 24                                        |





10101 Rosstarrant Avenue, Dayton, OH 45424-4011  
419.233.8888



# FIRE PROTECTION LEAD SHEET

FOR:

## Simpson Co. CTE Improvements & Alternative School Addition

Simpson County Board of Education  
400 S College St, Franklin, KY 42134

**B.G.**

Project no: **24510**  
 Drawing: **01**  
 Rev: **01**

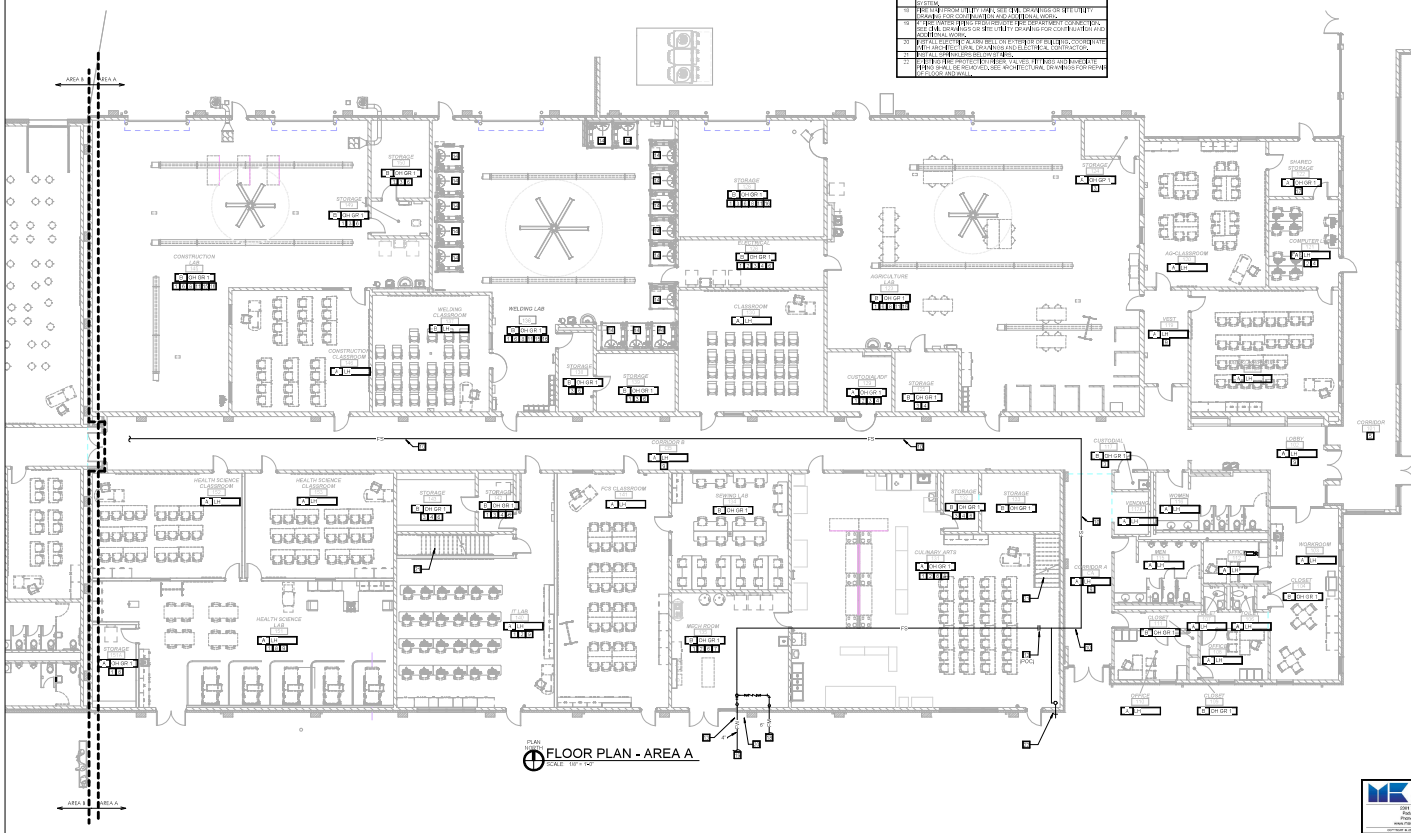
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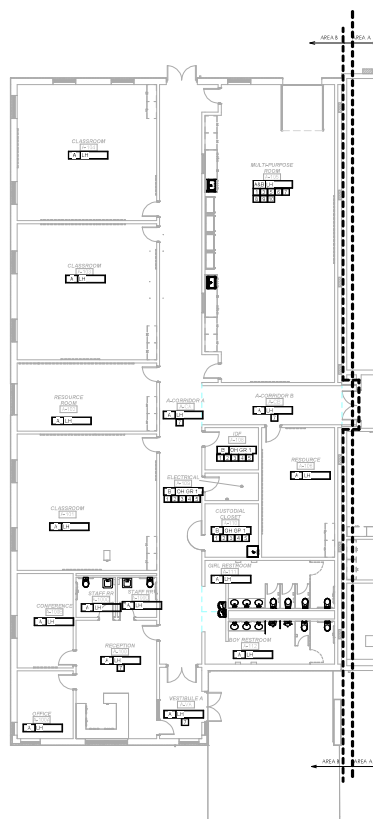
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PLAN NORTH  
FLOOR PLAN - AREA B  
SCALE: 1/8" = 1'-0"



**MARCUM**  
ENGINEERING, LLC

2011 W. Oakes Blvd.  
Produce, KY 40301  
Phone - 270-444-3374  
[www.marcumengineering.net](http://www.marcumengineering.net)

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rosstarrant  
architects

10101 Rosstarrant Avenue, Suite 100, San Francisco, CA 94122  
415.774.1000



WIT For Construction  
100% CDP  
certified

**HFE PROTECTION FLOOR PLAN - AREA B**

**Simpson Co. CTE Improvements & Alternative School Addition**

FOR:

**Simpson County Board of Education**  
**400 S College St, Franklin, KY 42134**

**SG**

Project Name: **SG**  
 Project No: **24170**  
 Project Date: **01/20/2024**

**CONTRACTOR** ☒ **OWNER**

**FP1.2**

**HFE PROTECTION FLOOR PLAN**  
 - AREA B  
 - 100% CDP  
 - 100% CDP



P0.1  
PULPING LEAD SHEET  
DATE PULPED:  
02/05/2005

ELECTRICAL CONTRACTOR SHALL PROVIDE RECEPTACLE ON DEDICATED CIRCUIT FOR AIR DRIVER, EATON, INDERROL, RANG, POLAR AIR, OR APPROVED EQUAL.

 **MARCUM**  
ENGINEERING, LLC  
301 WILSON DRIVE  
ANN ARBOR, MI 48106  
www.marcumeng.com | tel: 734.769.8700  
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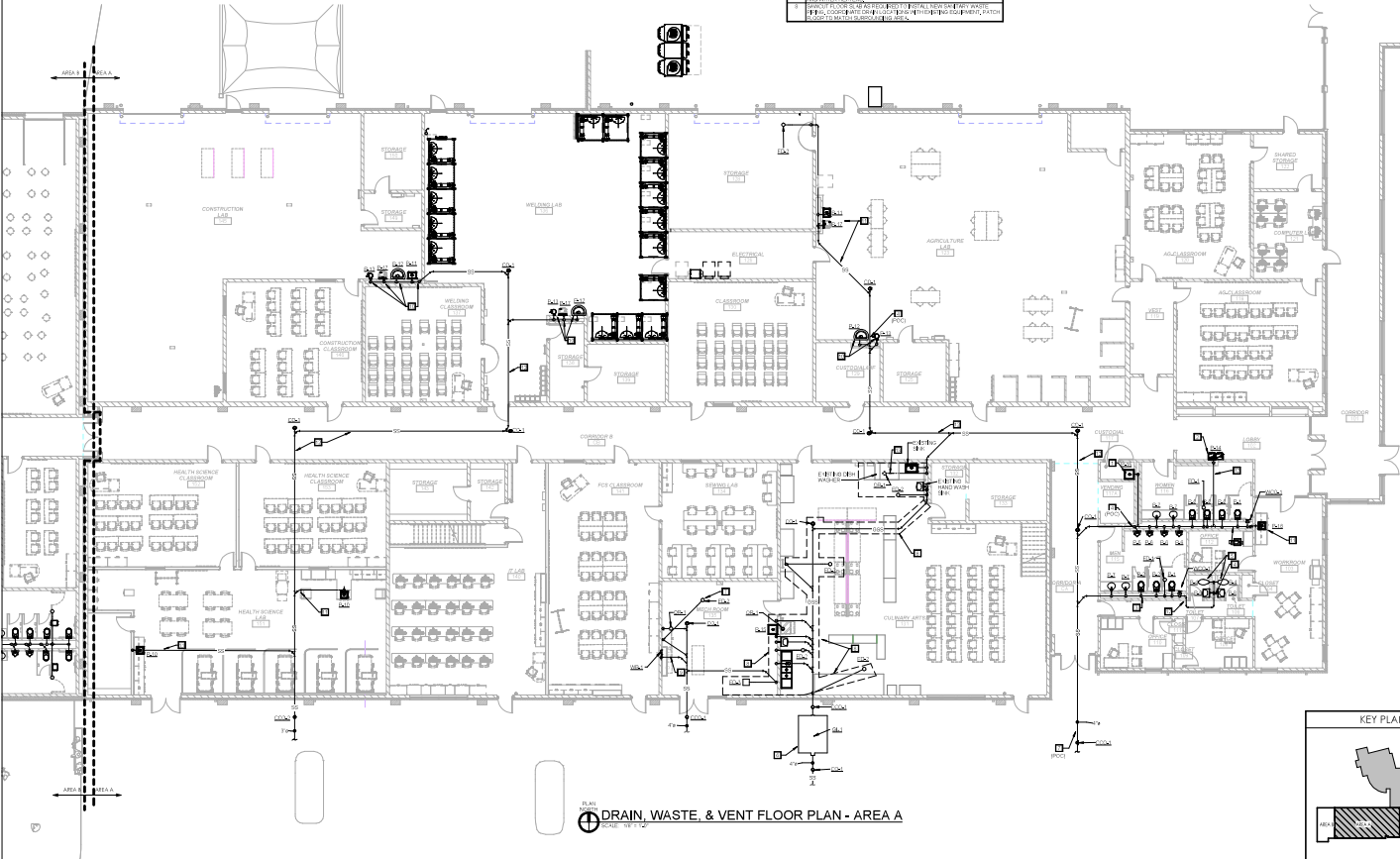
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Construction Documents  
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DESIGN FOR PLUMBING PLAN  
DATE: 07-05-2025

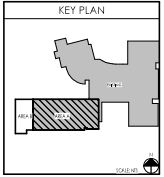
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| MECHANICAL<br>CONSTRUCTION TAG NOTES                                                                             |
|------------------------------------------------------------------------------------------------------------------|
| (APPLIES TO THE DRAWING ONLY)                                                                                    |
| 1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE MECHANICAL CODES.  |
| 2. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE MECHANICAL CODES.  |
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| 10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE MECHANICAL CODES. |

| MECHANICAL<br>CONSTRUCTION TAG NOTES                                                                             |
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| (APPLIES TO THE DRAWING ONLY)                                                                                    |
| 1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE MECHANICAL CODES.  |
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| 10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE MECHANICAL CODES. |



**DRAIN, WASTE, & VENT FLOOR PLAN - AREA A**



**DRAIN, WASTE, AND VENT FLOOR PLAN - AREA A**

Simpson Co. CTE Improvements & Alternative School Addition

FOR:

Simpson County Board of Education

400 S College St, Franklin, KY 42134

Project No. 240122

Drawn By: [Name]

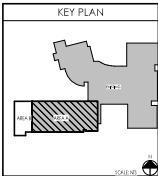
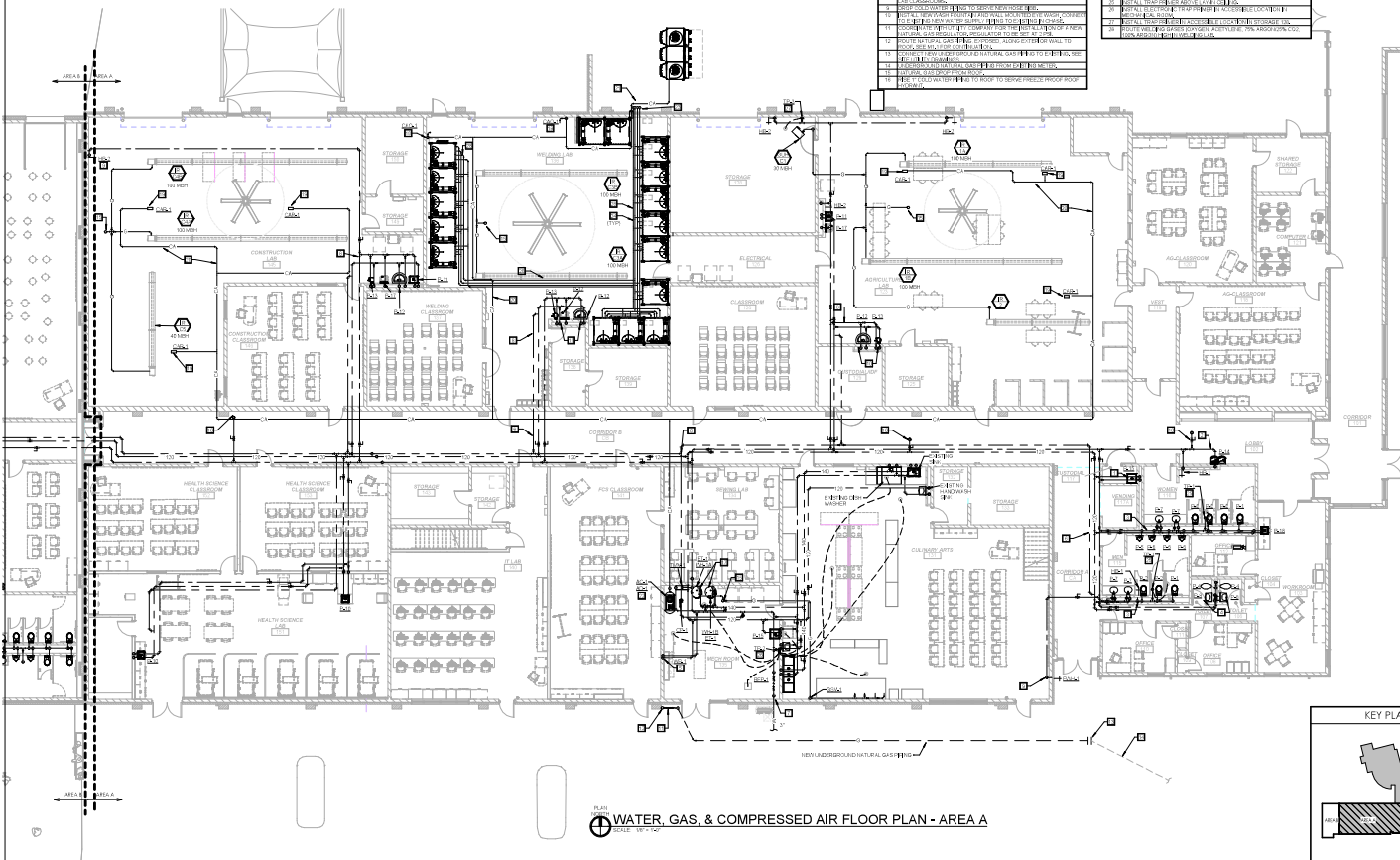
Check By: [Name]

Date: 08/01/2024

**P1.1**

DRAIN, WASTE, AND VENT FLOOR PLAN - AREA A

08/01/2024

[illegible][illegible]

**MARCUM**  
ENGINEERING, LLC

2011 W. Chapman Blvd.  
Paducah, KY 40301  
Phone - 270-444-3374  
[www.marcumengineering.net](http://www.marcumengineering.net)

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FIGURE 2001

The floor plan shows the first floor of the building, with various rooms and areas labeled. The layout includes a large central area with a grid of rooms, a corridor system, and an entrance area. The fire alarm control panel is located in the central corridor area, near the entrance. The plan also shows the location of the fire alarm pull stations and the fire alarm control panel. The fire alarm control panel is located in the central corridor area, near the entrance. The fire alarm pull stations are located in the central corridor area, near the entrance. The fire alarm control panel is located in the central corridor area, near the entrance. The fire alarm pull stations are located in the central corridor area, near the entrance.

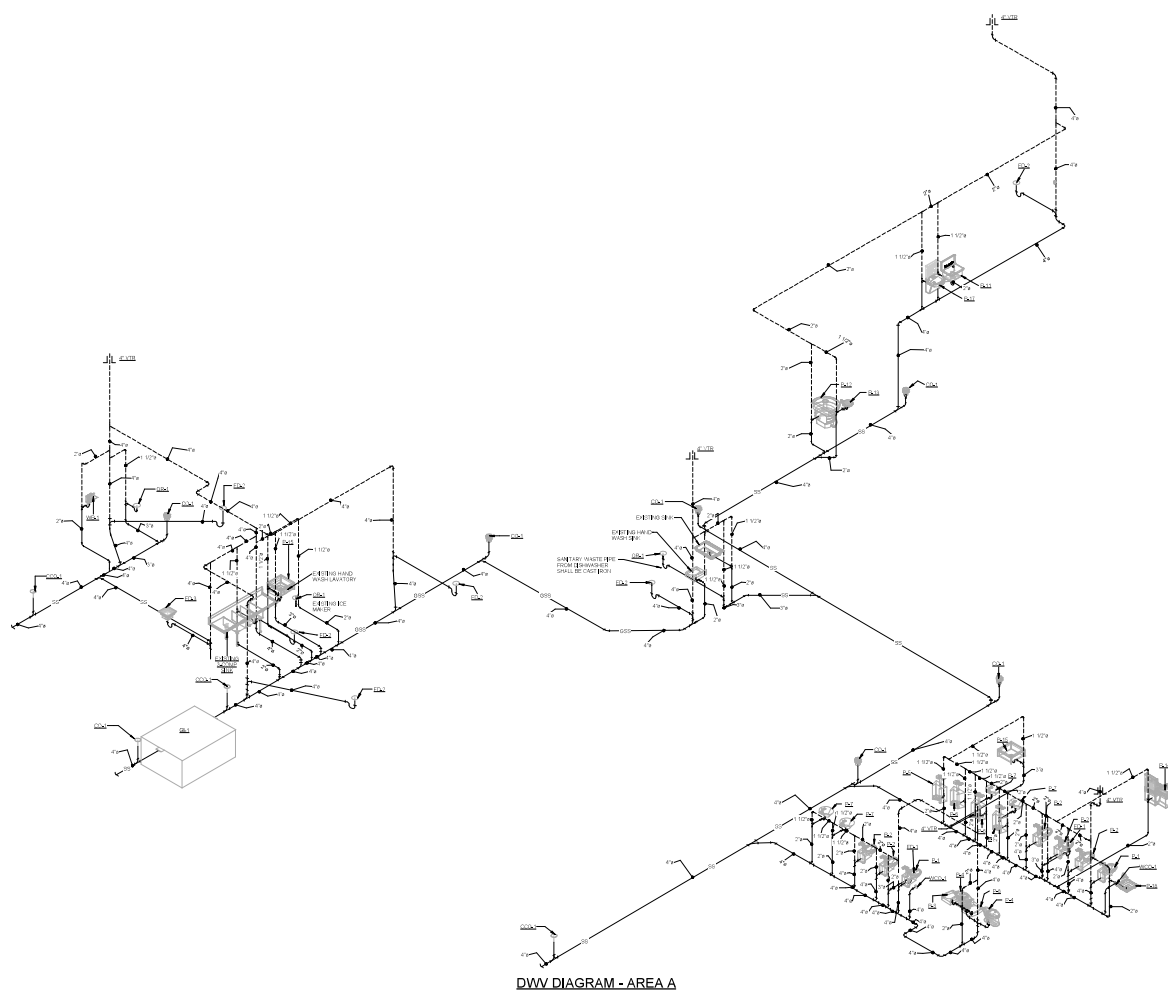
KEY PLAN

The key plan shows a larger site layout with a rectangular area highlighted and labeled 'AREA'. This area is located on the left side of the plan, adjacent to a hatched area. A north arrow is located in the bottom right corner of the key plan.



**MARCUM**  
ENGINEERING, LLC

2011 McGraw Hill  
Radnor, KY 42001  
Phone - 270-444-3074  
[www.marcumengineering.net](http://www.marcumengineering.net)

[illegible]

DWV DIAGRAM - AREA A



rosarant  
architects



**DRAIN, WASTE, AND VENT DIAGRAM - AREA A**

Simpson Co. CTE Improvements & Alternative School Addition

FOR:

Simpson County Board of Education  
400 S College St, Franklin, KY 42134

**Asst. & Production:**  
Aardam Engineering, LLC  
Madison, KY Office  
p 270.444.9274

**Structural Engineer:**  
BWR Engineering & Testing  
Madison, KY Office  
p 270.443.1995

**Construction Manager:**  
Alliance Corporation  
p 301.451.0400

|               |       |
|---------------|-------|
| BG            |       |
| Project No:   | 24519 |
| Drawn By:     | JR    |
| Revised By:   | JW/MB |
| SHEET RELEASE |       |
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P3.1

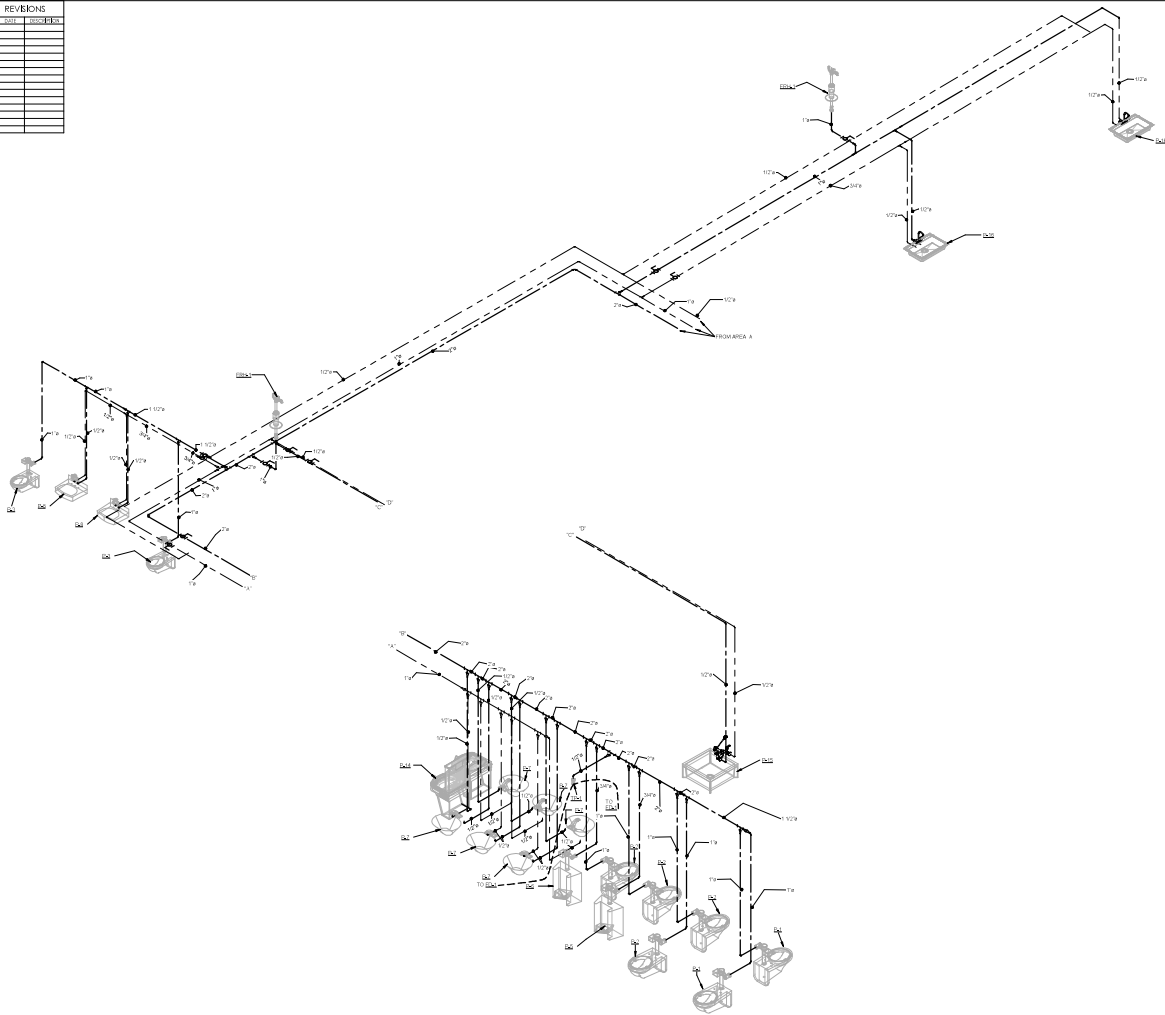








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| 1         | 10/1/17 | 10/1/17 | 10/1/17 |
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WATER PIPING DIAGRAM - AREA B  
NO SCALE



WATER PIPING DIAGRAM - AREA B  
Simpson Co. CTE Improvements & Alternative School Addition  
FOR:  
Simpson County Board of Education  
400 S College St, Franklin, KY 42134

Project No. 100101  
Project Name: Simpson Co. CTE Improvements & Alternative School Addition  
Project Location: Simpson County, KY  
Project Date: 10/1/17  
Project Status: In Progress

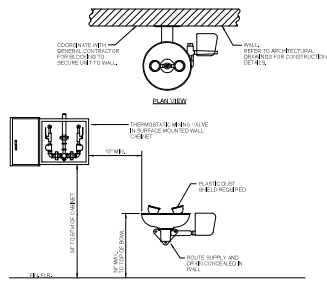
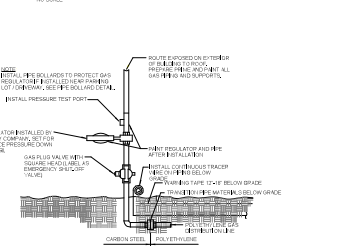
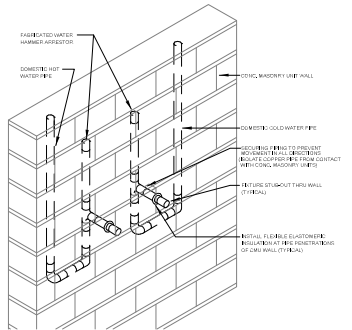
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Project No. 100101  
Project Name: Simpson Co. CTE Improvements & Alternative School Addition  
Project Location: Simpson County, KY  
Project Date: 10/1/17  
Project Status: In Progress

P3.6  
WATER PIPING DIAGRAM - AREA B  
Simpson Co. CTE Improvements & Alternative School Addition  
FOR:  
Simpson County Board of Education  
400 S College St, Franklin, KY 42134





[illegible][illegible]

The diagram illustrates a hot water heating system with a circulator pump and a bypass line. The main loop consists of a circulator pump, a boiler, and a radiator. A bypass line with a check valve and a balancing valve allows water to bypass the radiator. The diagram shows the flow of domestic hot water from the boiler to the radiator and back. Key components labeled include: Thermometer (TYP1), Check Valve (TYP2), Water Balancing Valve (TYP3), and Ball Valve (TYP4). The system is designed to maintain proper flow and pressure throughout the heating circuit.

Diagram illustrating the components of a manhole assembly:

- 12" PER FOOT PORTLAND CEMENT CONCRETE COLLAR (MIN. 12")
- CLEANOUT (REFER TO PLUMBING DRAINING REQUIREMENTS)
- GRADE OR IMPROVED SURFACE
- DEPTH VALVES

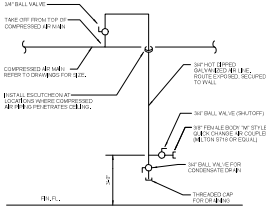
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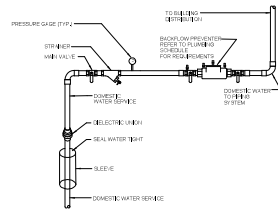
**MARCUM**  
ENGINEERING, LLC

2011 W. Oakton Blvd.  
Radcliff, KY 40301  
Phone - 270-444-3374  
www.marcumengineering.net

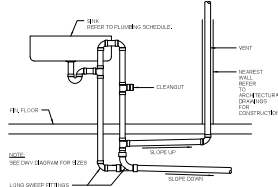
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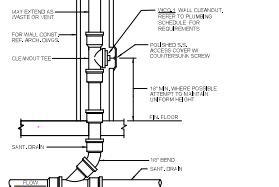
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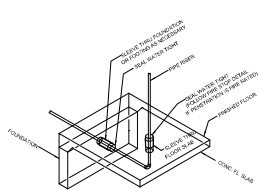
**DOMESTIC WATER SERVICE (COPPER)**  
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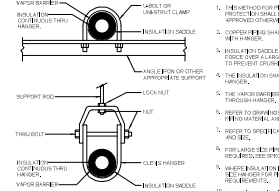
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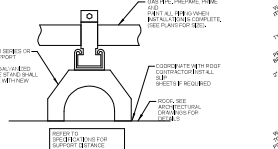
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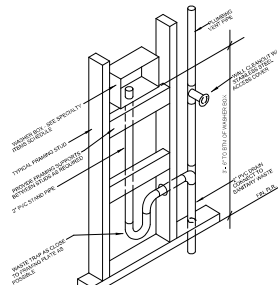
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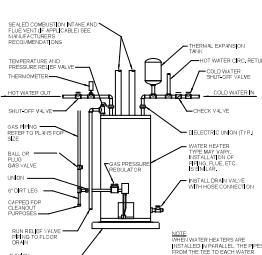
**PLUMBING PIPE SUPPORT DETAIL**  
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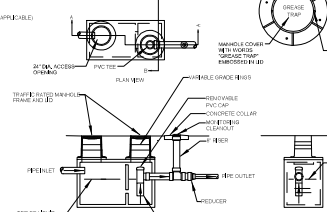
**GAS PIPING SUPPORT DETAIL**  
NO SCALE



**TYPICAL WASHER BOX ROUGH-IN DETAIL**  
NO SCALE



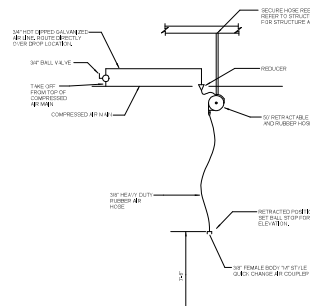
**WATER HEATER DETAIL**  
NO SCALE



**CONCRETE GREASE TRAP DETAIL**  
NO SCALE

**GREASE TRAP SPECIFICATIONS**

1. THE GREASE TRAP SHALL BE USED AS A COLLECTION AND SEPARATION POINT FOR GREASE AND OILS FROM WASTEWATER. IT SHALL BE INSTALLED IN A LOCATION THAT DOES NOT INTERFERE WITH THE OPERATION OF THE PLUMBING SYSTEM.
2. THE GREASE TRAP SHALL BE INSTALLED IN A LOCATION THAT DOES NOT INTERFERE WITH THE OPERATION OF THE PLUMBING SYSTEM.
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**FLEXIBLE COMPRESSED AIR DROP DETAIL**  
NO SCALE



rosstant architects

101 E. Main Street, Suite 100, Lexington, KY 40502

FOR CONSTRUCTION

100% CIP

2020/05/01

PLUMBING DETAILS

Simpson Co. CTE Improvements & Alternative School Addition

FOR

Simpson County Board of Education

400 S College St, Frankfort, KY 40621

Project No. 2020-01

Project Name: Simpson County CTE Improvements & Alternative School Addition

Project Location: Simpson County, KY

Project Date: 2020/05/01

Project Status: 100% CIP

Project Owner: Simpson County Board of Education

Project Architect: rosstant architects

Project Engineer: MARCUM ENGINEERING, L.L.C.

Project Designer: MARCUM ENGINEERING, L.L.C.

Project Checker: MARCUM ENGINEERING, L.L.C.

Project Approver: MARCUM ENGINEERING, L.L.C.

Project Date: 2020/05/01

Project Status: 100% CIP

Project Owner: Simpson County Board of Education

Project Architect: rosstant architects

Project Engineer: MARCUM ENGINEERING, L.L.C.

Project Designer: MARCUM ENGINEERING, L.L.C.

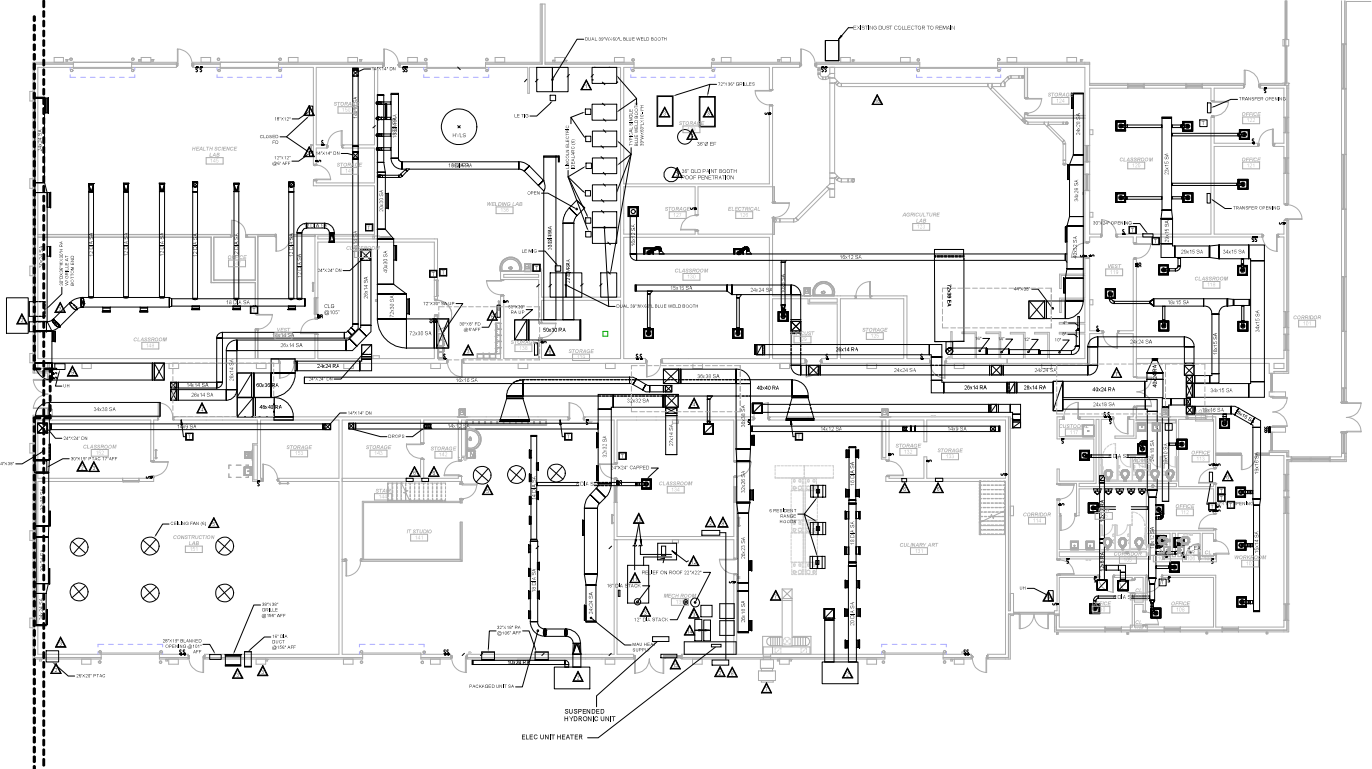
Project Checker: MARCUM ENGINEERING, L.L.C.

Project Approver: MARCUM ENGINEERING, L.L.C.



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| MECHANICAL<br>DEMOLITION TAG NOTES |                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (REFERS TO THE DRAWING ONLY)       |                                                                                                                                                               |
| 1                                  | DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT AND PIPING TO BE REPLACED BY NEW SYSTEMS TO MATCH EXISTING WALL OF ROOM, REFER TO MECHANICAL DRAWINGS FOR DETAILS. |
| 2                                  | DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT AND PIPING TO BE REPLACED BY NEW SYSTEMS TO MATCH EXISTING WALL OF ROOM, REFER TO MECHANICAL DRAWINGS FOR DETAILS. |
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FLOOR PLAN - AREA A  
SCALE: 1/8" = 1'-0"

rosstarrant  
architects



DEMOLITION HVAC  
Simpson Co. CTE Improvements & Alternative School Addition  
FOR:  
Simpson County Board of Education  
400 S College St, Frankfort, KY 40621

Project No. 2023-01  
Drawing No. DH1.1  
Scale: 1/8" = 1'-0"

|          |                         |
|----------|-------------------------|
| DATE     | DESCRIPTION             |
| 11/15/23 | ISSUED FOR PERMIT       |
| 11/15/23 | ISSUED FOR CONSTRUCTION |
| 11/15/23 | ISSUED FOR AS-BUILT     |
| 11/15/23 | ISSUED FOR RECORD       |



DH1.1  
DEMOLITION HVAC

**HVAC FLOOR PLAN - AREA A**

Simpson Co. CTE Improvements & Alternative School Addition

FOR:  
Simpson County Board of Education  
400 S College St., Franklin, KY 42134

**NOT FOR CONSTRUCTION**  
100% CIP  
©2002

**rossitant architects**  
37 E Main Street, Lexington, Kentucky 40502 • P. 502.254.4010

**PROJECT NO.** 24-010  
**DATE:** 01/20/2024  
**BY:** JRM  
**CHECKED BY:** JRM  
**SCALE:** AS SHOWN  
**PROJECT NO.** 24-010  
**DATE:** 01/20/2024  
**BY:** JRM  
**CHECKED BY:** JRM  
**SCALE:** AS SHOWN

**8/C**

Project No.: 24-010  
Client: Simpson County Board of Education  
Contractor: Construction Management  
Address: 400 S College St.  
City: Franklin, KY 42134  
Phone: 502.254.4010  
Fax: 502.254.4010  
Email: info@rossitant.com  
Website: www.rossitant.com

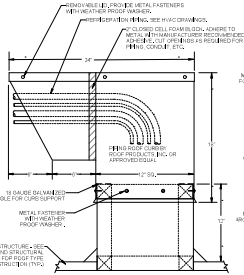
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FIRST FLOOR PLAN - AREA A

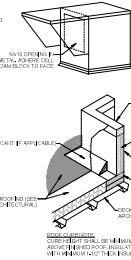
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H1.2

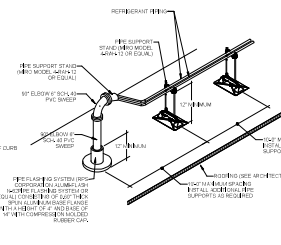
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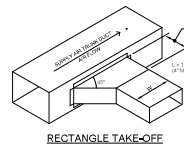
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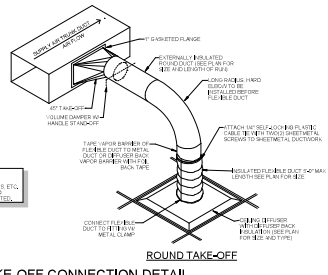
**ROOF PIPING CURB DETAIL**



**SINGLE UNIT OPTIONAL CONFIGURATION**

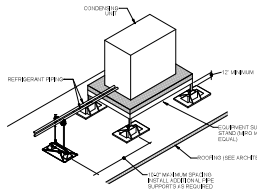


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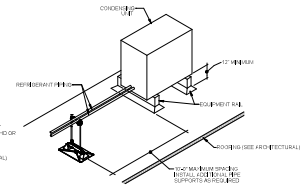


**ROUND TAKE-OFF**

**SUPPLY AIR DUCT TAKE-OFF CONNECTION DETAIL**

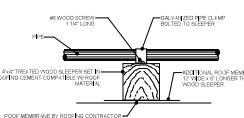


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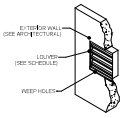


**ROOF RAIL**

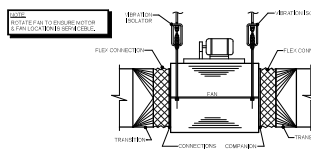
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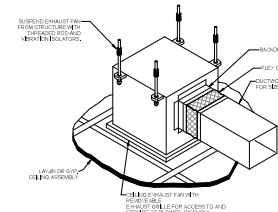
**SUPPORT FOR PIPING ON ROOF**



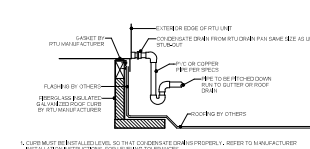
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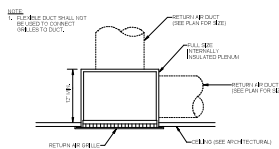
**INLINE FAN SUPPORT DETAIL**



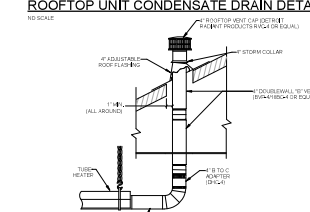
**CEILING MOUNTED EXHAUST FAN DETAIL**



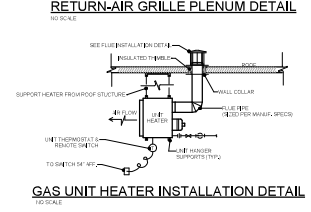
**ROOFTOP UNIT CONDENSATE DRAIN DETAIL**



**RETURN-AIR GRILLE PLENUM DETAIL**



**GAS-FIRED INFRARED HEATER GAS VENT DETAIL**



**GAS UNIT HEATER INSTALLATION DETAIL**





[illegible][illegible][illegible]

| CEILING-MOUNTED RADIANT PANEL HEATER SCHEDULE |        |        |                   |                       |         |       |                  |      |                           |
|-----------------------------------------------|--------|--------|-------------------|-----------------------|---------|-------|------------------|------|---------------------------|
| MARK                                          | MPCL   | MODEL  | MOUNTING LOCATION | BOILER/HEAT EXCHANGER | FEES    | WATTS | VOLTS/GEAR RATIO | AMPS | SCHEMATIC AND ACCESSORIES |
| QIR*                                          | QIRARK | QIR51F | CEILING           | RECESSED-MOUNTED      | 21 x 48 | 750   | 108 V. 1         | 6.2  | SEE BELOW                 |

**REQUIREMENTS AND ACCESSORIES:**

- 1. PROVIDE UNIT TO BE AT MINIMUM 1" OF SOUND IDENTICAL INSULATION REEGULATES THERMAL INSULATION.
- 2. PROVIDE UNIT TO BE AT MINIMUM THERMAL OVERLOAD PROTECTION.
- 3. PROVIDE UNIT TO BE AT MINIMUM NEW/USED ELECTRICAL CONNECTIONS WITH THERMAL INSULATION ELECTRICAL CONNECTION.
- 4. TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE SPACE MINUTED ZONE SENSOR FOR UNIT CONTROL.
- 5. PROVIDE UNIT TO BE MAINTAINED UNIT FOR INSTALLATION IN LEAKS CHECK.
- 6. PROVIDE UNIT TO BE TEMPERATURE OF COOLING, CUSTOM COLOR TO BE SUBJECT TO ARCHITECT.

**GENERAL NOTES:** CHANGES OR APPROVES EQUAL.

| GAS FIRED INFRARED HEATER SCHEDULE |             |        |        |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    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| UNIT                               | HEATER TYPE | WTRGAS | WTRGAS | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 | 800 | 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 | 1000 | 1010 | 1020 | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 | 1090 | 1100 | 1110 | 1120 | 1130 | 1140 | 1150 | 1160 | 1170 | 1180 | 1190 | 1200 | 1210 | 1220 | 1230 | 1240 | 1250 | 1260 | 1270 | 1280 | 1290 | 1300 | 1310 | 1320 | 1330 | 1340 | 1350 | 1360 | 1370 | 1380 | 1390 | 1400 | 1410 | 1420 | 1430 | 1440 | 1450 | 1460 | 1470 | 1480 | 1490 | 1500 | 1510 | 1520 | 1530 | 1540 | 1550 | 1560 | 1570 | 1580 | 1590 | 1600 | 1610 | 1620 | 1630 | 1640 | 1650 | 1660 | 1670 | 1680 | 1690 | 1700 | 1710 | 1720 | 1730 | 1740 | 1750 | 1760 | 1770 | 1780 | 1790 | 1800 | 1810 | 1820 | 1830 | 1840 | 1850 | 1860 | 1870 | 1880 | 1890 | 1900 | 1910 | 1920 | 1930 | 1940 | 1950 | 1960 | 1970 | 1980 | 1990 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 | 2070 | 2080 | 2090 | 2100 | 2110 | 2120 | 2130 | 2140 | 2150 | 2160 | 2170 | 2180 | 2190 | 2200 | 2210 | 2220 | 2230 | 2240 | 2250 | 2260 | 2270 | 2280 | 2290 | 2300 | 2310 | 2320 | 2330 | 2340 | 2350 | 2360 | 2370 | 2380 | 2390 | 2400 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | 2500 | 2510 | 2520 | 2530 | 2540 | 2550 | 2560 | 2570 | 2580 | 2590 | 2600 | 2610 | 2620 | 2630 | 2640 | 2650 | 2660 | 2670 | 2680 | 2690 | 2700 | 2710 | 2720 | 2730 | 2740 | 2750 | 2760 | 2770 | 2780 | 2790 | 2800 | 2810 | 2820 | 2830 | 2840 | 2850 | 2860 | 2870 | 2880 | 2890 | 2900 | 2910 | 2920 | 2930 | 2940 | 2950 | 2960 | 2970 | 2980 | 2990 | 3000 | 3010 | 3020 | 3030 | 3040 | 3050 | 3060 | 3070 | 3080 | 3090 | 3100 | 3110 | 3120 | 3130 | 3140 | 3150 | 3160 | 3170 | 3180 | 3190 | 3200 | 3210 | 3220 | 3230 | 3240 | 3250 | 3260 | 3270 | 3280 | 3290 | 3300 | 3310 | 3320 | 3330 | 3340 | 3350 | 3360 | 3370 | 3380 | 3390 | 3400 | 3410 | 3420 | 3430 | 3440 | 3450 | 3460 | 3470 | 3480 | 3490 | 3500 | 3510 | 3520 | 3530 | 3540 | 3550 | 3560 | 3570 | 3580 | 3590 | 3600 | 3610 | 3620 | 3630 | 3640 | 3650 | 3660 | 3670 | 3680 | 3690 | 3700 | 3710 | 3720 | 3730 | 3740 | 3750 | 3760 | 3770 | 3780 | 3790 | 3800 | 3810 | 3820 | 3830 | 3840 | 3850 | 3860 | 3870 | 3880 | 3890 | 3900 | 3910 | 3920 | 3930 | 3940 | 3950 | 3960 | 3970 | 3980 | 3990 | 4000 | 4010 | 4020 | 4030 | 4040 | 4050 | 4060 | 4070 | 4080 | 4090 | 4100 | 4110 | 4120 | 4130 | 4140 | 4150 | 4160 | 4170 | 4180 | 4190 | 4200 | 4210 | 4220 | 4230 | 4240 | 4250 | 4260 | 4270 | 4280 | 4290 | 4300 | 4310 | 4320 | 4330 | 4340 | 4350 | 4360 | 4370 | 4380 | 4390 | 4400 | 4410 | 4420 | 4430 | 4440 | 4450 | 4460 | 4470 | 4480 | 4490 | 4500 | 4510 | 4520 | 4530 | 4540 | 4550 | 4560 | 4570 | 4580 | 4590 | 4600 | 4610 | 4620 | 4630 | 4640 | 4650 | 4660 | 4670 | 4680 | 4690 | 4700 | 4710 | 4720 | 4730 | 4740 | 4750 | 4760 | 4770 | 4780 | 4790 | 4800 | 4810 | 4820 | 4830 | 4840 | 4850 | 4860 | 4870 | 4880 | 4890 | 4900 | 4910 | 4920 | 4930 | 4940 | 4950 | 4960 | 4970 | 4980 | 4990 | 5000 | 5010 | 5020 | 5030 | 5040 | 5050 | 5060 | 5070 | 5080 | 5090 | 5100 | 5110 | 5120 | 5130 | 5140 | 5150 | 5160 | 5170 | 5180 | 5190 | 5200 | 5210 | 5220 | 5230 | 5240 | 5250 | 5260 | 5270 | 5280 | 5290 | 5300 | 5310 | 5320 | 5330 | 5340 | 5350 | 5360 | 5370 | 5380 | 5390 | 5400 | 5410 | 5420 | 5430 | 5440 | 5450 | 5460 | 5470 | 5480 | 5490 | 5500 | 5510 | 5520 | 5530 | 5540 | 5550 | 5560 | 5570 | 5580 | 5590 | 5600 | 5610 | 5620 | 5630 | 5640 | 5650 | 5660 | 5670 | 5680 | 5690 | 5700 | 5710 | 5720 | 5730 | 5740 | 5750 | 5760 | 5770 | 5780 | 5790 | 5800 | 5810 | 5820 | 5830 | 5840 | 5850 | 5860 | 5870 | 5880 | 5890 | 5900 | 5910 | 5920 | 5930 | 5940 | 5950 | 5960 | 5970 | 5980 | 5990 | 6000 | 6010 | 6020 | 6030 | 6040 | 6050 | 6060 | 6070 | 6080 | 6090 | 6100 | 6110 | 6120 | 6130 | 6140 | 6150 | 6160 | 6170 | 6180 | 6190 | 6200 | 6210 | 6220 | 6230 | 6240 | 6250 | 6260 | 6270 | 6280 | 6290 | 6300 | 6310 | 6320 | 6330 | 6340 | 6350 | 6360 | 6370 | 6380 | 6390 | 6400 | 6410 | 6420 | 6430 | 6440 | 6450 | 6460 | 6470 | 6480 | 6490 | 6500 | 6510 | 6520 | 6530 | 6540 | 6550 | 6560 | 6570 | 6580 | 6590 | 6600 | 6610 | 6620 | 6630 | 6640 | 6650 | 6660 | 6670 | 6680 | 6690 | 6700 | 6710 | 6720 | 6730 | 6740 | 6750 | 6760 | 6770 | 6780 | 6790 | 6800 | 6810 | 6820 | 6830 | 6840 | 6850 | 6860 | 6870 | 6880 | 6890 | 6900 | 6910 | 6920 | 6930 | 6940 | 6950 | 6960 | 6970 | 6980 | 6990 | 7000 | 7010 | 7020 | 7030 | 7040 | 7050 | 7060 | 7070 | 7080 | 7090 | 7100 | 7110 | 7120 | 7130 | 7140 | 7150 | 7160 | 7170 | 7180 | 7190 | 7200 | 7210 | 7220 | 7230 | 7240 | 7250 | 7260 | 7270 | 7280 | 7290 | 7300 | 7310 | 7320 | 7330 | 7340 | 7350 | 7360 | 7370 | 7380 | 7390 | 7400 | 7410 | 7420 | 7430 | 7440 | 7450 | 7460 | 7470 | 7480 | 7490 | 7500 | 7510 | 7520 | 7530 | 7540 | 7550 | 7560 | 7570 | 7580 | 7590 | 7600 | 7610 | 7620 | 7630 | 7640 | 7650 | 7660 | 7670 | 7680 | 7690 | 7700 | 7710 | 7720 | 7730 | 7740 | 7750 | 7760 | 7770 | 7780 | 7790 | 7800 | 7810 | 7820 | 7830 | 7840 | 7850 | 7860 | 7870 | 7880 | 7890 | 7900 | 7910 | 7920 | 7930 | 7940 | 7950 | 7960 | 7970 | 7980 | 7990 | 8000 | 8010 | 8020 | 8030 | 8040 | 8050 | 8060 | 8070 | 8080 | 8090 | 8100 | 8110 | 8120 | 8130 | 8140 | 8150 | 8160 | 8170 | 8180 | 8190 | 8200 | 8210 | 8220 | 8230 | 8240 | 8250 | 8260 | 8270 | 8280 | 8290 | 8300 | 8310 | 8320 | 8330 | 8340 | 8350 | 8360 | 8370 | 8380 | 8390 | 8400 | 8410 | 8420 | 8430 | 8440 | 8450 | 8460 | 8470 | 8480 | 8490 | 8500 | 8510 | 8520 | 8530 | 8540 | 8550 | 8560 | 8570 | 8580 | 8590 | 8600 | 8610 | 8620 | 8630 | 8640 | 8650 | 8660 | 8670 | 8680 | 8690 | 8700 | 8710 | 8720 | 8730 | 8740 | 8750 | 8760 | 8770 | 8780 | 8790 | 8800 | 8810 | 8820 | 8830 | 8840 | 8850 | 8860 | 8870 | 8880 | 8890 | 8900 | 8910 | 8920 | 8930 | 8940 | 8950 | 8960 | 8970 | 8980 | 8990 | 9000 | 9010 | 9020 | 9030 | 9040 | 9050 | 9060 | 9070 | 9080 | 9090 | 9100 | 9110 | 9120 | 9130 | 9140 | 9150 | 9160 | 9170 | 9180 | 9190 | 9200 | 9210 | 9220 | 9230 | 9240 | 9250 | 9260 | 9270 | 9280 | 9290 | 9300 | 9310 | 9320 | 9330 | 9340 | 9350 | 9360 | 9370 | 9380 | 9390 | 9400 | 9410 | 9420 | 9430 | 9440 | 9450 | 9460 | 9470 | 9480 | 9490 | 9500 | 9510 | 9520 | 9530 | 9540 | 9550 | 9560 | 9570 | 9580 | 9590 | 9600 | 9610 | 9620 | 9630 | 9640 | 9650 | 9660 | 9670 | 9680 | 9690 | 9700 | 9710 | 9720 | 9730 | 9740 | 9750 | 9760 | 9770 | 9780 | 9790 | 9800 | 9810 | 9820 | 9830 | 9840 | 9850 | 9860 | 9870 | 9880 | 9890 | 9900 | 9910 | 9920 | 9930 | 9940 | 9950 | 9960 | 9970 | 9980 | 9990 | 10000 |

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**GENERAL NOTES:**

1. **REVISIONS:** ALL REVISIONS SHALL BE DOCUMENTED BY A REVISION, USED TO CORRECT THE DRAWING. REVISIONS SHALL BE CORRECTED IMMEDIATELY.
2. **CONSTRUCTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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**GENERAL NOTES:**

1. **REVISIONS:** ALL REVISIONS SHALL BE DOCUMENTED BY A REVISION, USED TO CORRECT THE DRAWING. REVISIONS SHALL BE CORRECTED IMMEDIATELY.
2. **CONSTRUCTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. **CONSTRUCTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
4. **CONSTRUCTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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9. **CONSTRUCTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
10. **CONSTRUCTION:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

[illegible][illegible]

| GAS FIRED UNIT HEATER SCHEDULE |         |             |       |      |     |        |                          |                        |              |               |        |                   |                  |            |                              |         |
|--------------------------------|---------|-------------|-------|------|-----|--------|--------------------------|------------------------|--------------|---------------|--------|-------------------|------------------|------------|------------------------------|---------|
| MARK                           | MPN     | TYPE/ID     | MODEL | SIZE | CFM | PA/INP | HORIZONTAL<br>THERM (FT) | VERTICAL<br>THERM (FT) | INPUT<br>MBH | OUTPUT<br>MBH | EFF. % | TEMP./SIZE<br>PSI | VOLTAGE<br>RANGE | FLA (AMPS) | REMARKS (AND<br>ACCESSORIES) | MARK    |
| 0000001                        | 0000001 | STORAGE 120 | HE18  | 18   | 800 | 1/10   | 26                       | 10000                  | 30000        | 340           | 80     | 250               | 115/1            | 50         | SEE BELOW                    | 0000001 |

[illegible]



[illegible][illegible]

6. INSTALL THE ACCESSORY TO MANUFACTURER'S REQUIREMENTS.
7. PROVIDE AFTER FILTER WITH 3" TALL BAG INLET.
8. PROVIDE WITH STARTER AND STARTER ENDS TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT MOUNTED OUTLET.
10. PROVIDE UNIT WITH FLOODING INHIBITOR.
11. PROVIDE WITH 1/2" DUE DRAIN BAG AND ONE EXHAUST IN TESTED DRAIN TO BE CONNECT TO ONE CUSTOMER PROVIDED SAGALAN DRAIN.
12. PROVIDE WITH SUPPORT STAND.
13. DUST COLLECTION SYSTEM SHALL BE SUPPLIED BY MANUFACTURER'S RECOMMENDATION AND NOT BY THE CONTRACTOR.

CAR-400N, DONALDSON OR APPROVED EQUI.

| LOCAL WELDING EXTRACTION ARM SCHEDULE |               |     |        |            |                |            |            |               |              |                        |         |
|---------------------------------------|---------------|-----|--------|------------|----------------|------------|------------|---------------|--------------|------------------------|---------|
| MAG.                                  | TYPE          | QTY | WAVE   | HOSE MODEL | RECEPTOR MODEL | MOUNTING   | DESIGN QTY | PRESSURE DROP | ARM DIAMETER | PSI/MS T AND JOINTS/MS | REMARKS |
| WELD-1                                | FLEXIBLE HOSE | 7   | CARBON | PTL        | M              | BOOTH WALL | 600        | 1/2"          | 6"           | ALL BELOW              | WELD-1  |

1. EXTRACT AIR FLOW SHALL BE BY THE FLOW SUPPLIER AND COMPATIBLE WITH THE LOCAL VENTILATION PRACTICES. THE UNIT SHOULD CONNECT TO THE EXTRACT AIR FLOW.
2. EXTRACT AIR FLOW SHOULD BE INSULATED WITH NON-HALOGENATED MAGNETIC BUSS, HANDLE AND CORROSION RESISTANT METAL SCREEN.
3. PROVIDE ADEQUATE LENGTH OF HOSE BETWEEN HOUSING BRACKET AND BOOTH TO PROVIDE PROPER CAPTURE ANYWHERE WITHIN BOOTH (8FT MINIMUM).
4. PROVIDE UNIT WITH MAGNETIC DRIVER BRUSH ASIM FOR BALANCE.
5. PROVIDE WALL MOUNTING BRACKET/PLATFORM FOR EACH AIR. CARBON FIBRE OR EQUIV.

| LOCAL WELDING FILTRATION / FAN SCHEDULE |              |           |           |          |                    |          |                 |          |                |                         |      |
|-----------------------------------------|--------------|-----------|-----------|----------|--------------------|----------|-----------------|----------|----------------|-------------------------|------|
| MARK                                    | MANUFACTURER | TYPE      | FAN MODEL | VOLTS/Hz | ULTRACONNECT MODEL | MAX. Cfm | STATIC PRESSURE | MOTOR HP | VOLTAGED PHASE | REMARKS AND ACCESSORIES | MARK |
| 150421                                  | CONQUEST     | DISBURGER | CONRAD    | 208V/1   | DIS421             | 1200     | 4"              | 1/2      | 120/11         | 1/2                     | WPC1 |
| 150422                                  | CONQUEST     | DISBURGER | CONRAD    | 208V/1   | DIS421             | 1200     | 4"              | 1/2      | 120/11         | 1/2                     | WPC2 |
| 150423                                  | CONQUEST     | DISBURGER | CONRAD    | 208V/1   | DIS421             | 1200     | 4"              | 1/2      | 120/11         | 1/2                     | WPC3 |
| 150424                                  | CONQUEST     | DISBURGER | CONRAD    | 208V/1   | DIS421             | 1200     | 4"              | 1/2      | 120/11         | 1/2                     | WPC4 |

- [illegible]

CAB-MOH, LINCOLN ELECTRIC, NEDERHAW, PLYMOUTH, OR APPROVED EQUIV.

| DISHWASHER EXHAUST HOOD SCHEDULE |           |         |         |              |             |                         |                         |             |                          |      |
|----------------------------------|-----------|---------|---------|--------------|-------------|-------------------------|-------------------------|-------------|--------------------------|------|
| MODEL                            | WFO       | MODEL   | TYPE    | (W x L x D)  | EXHAUST CFM | STAINLESS PREPARED DRIP | APPROX. DRAIN LINE SIZE | EXHAUST FAN | REMOVABLE AND ACCESSIBLE | WFO# |
| DWC1                             | GREENHECK | GD-1000 | CARDIFF | 40 X 40 X 24 | 375         | 1/2"                    | 1/2"                    | DEF1        | SEE BELOW                | DWC1 |

7. MOUNT BOTTOM OF HOOD APPROXIMATELY 6" (152.4) ABOVE FINISHED FLOOR.
  8. UNIT SHALL BE CONSTRUCTED OF 304 STAINLESS STEEL.
  9. PROVIDE UNIT WITH 18" WIDED, SQUARE EDGED BUTT JOINT.
  10. PROVIDE UNIT WITH 18" DIA. VENT AIR BALANCING DAFFLE COLLAR.
  11. PROVIDE UNIT WITH 18" CHROME PLATED CONDENSATE DRAIN (1" FROM HOOD TO CHIM. TABLE).
  12. SUPPLY 1" MIN. FACTURE RESISTANCE REINFORCED PLASTIC CLEARANCE.
  13. PROVIDE UNIT WITH CEILING ENCLOSURE PANELS FROM TOP OF HOOD TO CEILING FOR ALL EXPOSED SIDES OF HOOD.
- ACCESS, CAPTURING, GREENHOUSE, K-HOOD OR APPROVED EQUAL**

| INTAKE HOOD SCHEDULE |           |             |       |                         |       |                     |                           |                        |                  |              |
|----------------------|-----------|-------------|-------|-------------------------|-------|---------------------|---------------------------|------------------------|------------------|--------------|
| MARY                 | WPL       | DESCRIPTION | MODEL | THROAT AREA (SQ INCHES) | CFM   | THROAT AREA (SQ FT) | THROAT VELOCITY (FT/ MIN) | PRESSURE DROP (INCHES) | WATER LOSS (GAL) | REMARKS      |
| 101                  | GREENHAWK | INTAKE HOOD | 314   | 24.36                   | 6,000 | 72                  | 800                       | 1.00                   | 8000             | INTAKE #1 OK |

1. PROVIDE UNIT WITH ALUMINUM CONSTRUCTION.
2. PROVIDE UNIT WITH GALVANIZED IRON SCREENS.
3. PROVIDE UNIT WITH RUBBER CURB-CAP STRIPPING FOR SEALING UNIT TO ROOF CURVE.
4. PROVIDE UNIT WITH 1/2" THICK, 16" HIGH, 16" WIDE DAMPER ACTUATOR FOR ROOF TYPE AND SLOPE.
5. PROVIDE UNIT WITH 24VDC, 10WATT, 100% DUTY CYCLE DAMPER ACTUATOR. DAMPER SHALL BE CLOSED UPON A LOSS OF POWER. DAMPER SHALL BE INTERLOCKED WITH THE REFERENCED EXHAUST FAN.

GREENWICH, N.Y. BUSHN INTER-ENERGY OR APPROVED COAL.

**MARCUM**  
ENGINEERING, LLC

2011 McCracken Blvd.  
Paducah, KY 42001  
Phone - 270-444-3574  
[www.marcumengineering.net](http://www.marcumengineering.net)

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**27** rostrant architects  
121 41 stuyvesant avenue brooklyn, new york 11202 p 332.254.40

Simpson Co. CTE Improvements & Alternative School Addition  
FOR:  
Simpson County Board of Education  
400 S College St, Franklin, KY 42134

**Production Manager:**  
Force Corporation

**BG**

Sent No: 24319  
Down By: 304  
Ad By: IN

SHORT RELEASE

COPY Cat 304

Construction Documents

# H5.3

HVAC SCHEDULES

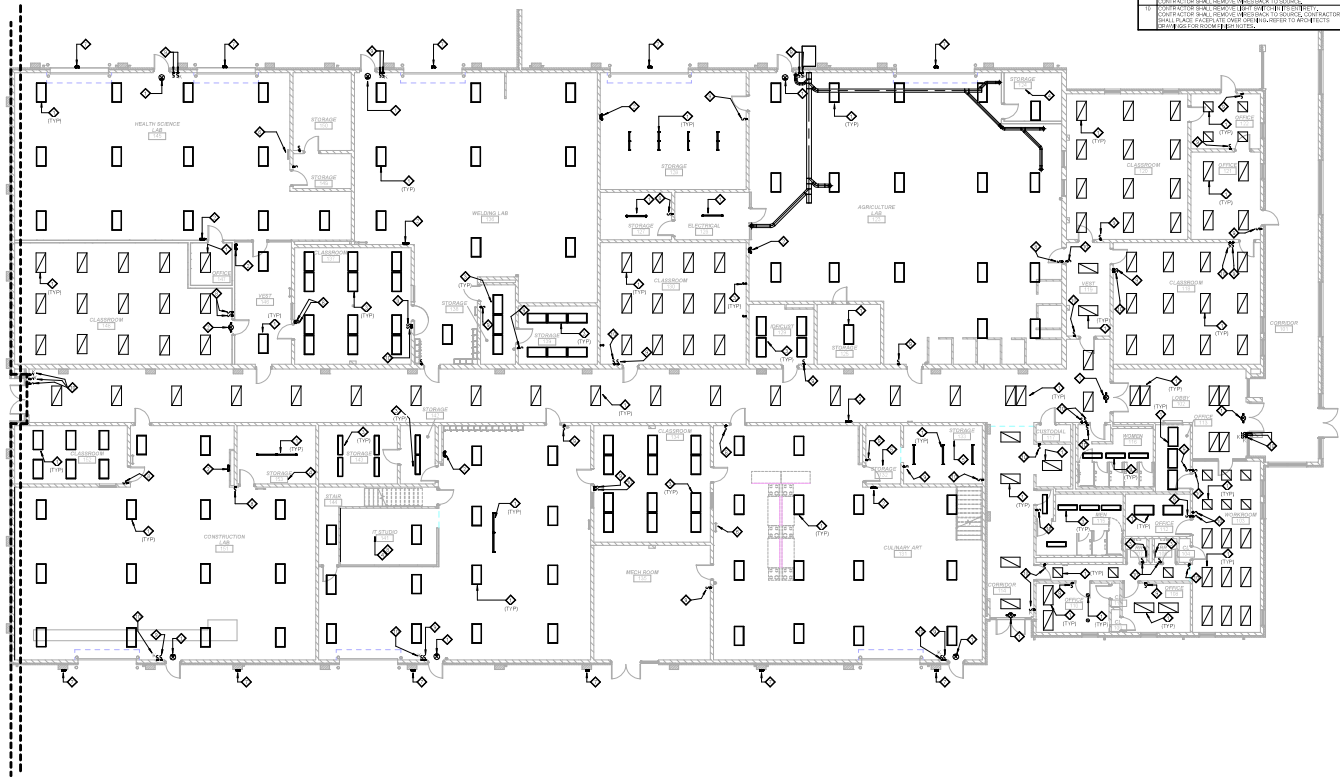
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02/06/2005







| ELECTRICAL<br>DEMOLITION TAG NOTES                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (APPLICABLE TO THE DRAWING ONLY)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | <p>1. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM BACK TO FRONT OF THE PANELS TO BE DEMOLISHED.</p> <p>2. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>3. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>4. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>5. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>6. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>7. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>8. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>9. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> <p>10. CONTRACTOR SHALL REMOVE ALL WIRING AND ACCESSORIES FROM THE PANELS TO BE DEMOLISHED.</p> |

[illegible]





| ELECTRICAL SPECIAL SYSTEMS OUTLINE                  |            |              |          |                |      |
|-----------------------------------------------------|------------|--------------|----------|----------------|------|
| CONTRACT SYSTEM DESCRIPTION                         | ESTIMATING | INSTALLATION | CHARGING | REPAIR/REPLACE | NOTE |
| GENERAL BUILDING SPECIAL SYSTEMS                    |            |              |          |                |      |
| 1. ELECTRICAL SYSTEMS FOR COMMERCIAL BUILDINGS      | C110       | C110         | C110     | C110           |      |
| 2. POWER DISTRIBUTION FOR COMMERCIAL BUILDINGS      | C110       | C110         | C110     | C110           |      |
| 3. LIGHTING SYSTEMS FOR COMMERCIAL BUILDINGS        | C110       | C110         | C110     | C110           |      |
| 4. ELECTRICAL SYSTEMS FOR INDUSTRIAL BUILDINGS      | C110       | C110         | C110     | C110           |      |
| 5. ELECTRICAL SYSTEMS FOR RESIDENTIAL BUILDINGS     | C110       | C110         | C110     | C110           |      |
| 6. ELECTRICAL SYSTEMS FOR SPECIAL PURPOSE BUILDINGS | C110       | C110         | C110     | C110           |      |
| INFORMATION AND TECHNOLOGY SYSTEMS                  |            |              |          |                |      |
| 7. DATA COMMUNICATIONS SYSTEMS                      | C110       | C110         | C110     | C110           |      |
| 8. TELEPHONE SYSTEMS                                | C110       | C110         | C110     | C110           |      |
| 9. VIDEO SYSTEMS                                    | C110       | C110         | C110     | C110           |      |
| 10. SECURITY SYSTEMS                                | C110       | C110         | C110     | C110           |      |
| 11. FIRE ALARM SYSTEMS                              | C110       | C110         | C110     | C110           |      |
| 12. ACCESS CONTROL SYSTEMS                          | C110       | C110         | C110     | C110           |      |
| 13. NETWORK SYSTEMS                                 | C110       | C110         | C110     | C110           |      |
| 14. TELEVISION SYSTEMS                              | C110       | C110         | C110     | C110           |      |
| 15. AUDIO SYSTEMS                                   | C110       | C110         | C110     | C110           |      |
| 16. INSTRUMENTATION SYSTEMS                         | C110       | C110         | C110     | C110           |      |
| 17. CONTROL SYSTEMS                                 | C110       | C110         | C110     | C110           |      |
| 18. SPECIAL PURPOSE SYSTEMS                         | C110       | C110         | C110     | C110           |      |

[illegible][illegible][illegible]

# ELECTRICAL SYMBOL LEGEND

## COMMUNICATIONS SYSTEMS - VOICE/DATA/INTERCOM

|                                                                                     |                                                          |                                                                                  |                           |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------|
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|    | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|  | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|  | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|  | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|  | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |
|  | TERMINAL BLOCK/VOICEDATA OUTPUT/SEE COMM/INTERCOM DETAIL | VOICEDATA NUMBER OF VOICE PORTS AND CABLES, DATA NUMBER OF DATA PORTS AND CABLES | WALL AT TOP TO OTHER W/UP |

CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EQUIPMENT TO MATCH ACCESS REQUIREMENTS BY THE REC AND EQUIPMENT MANUFACTURERS.

CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND OBTAIN ALL NECESSARY PLANS OF WORK AND/OR EQUIPMENT AND COORDINATE WITH ALL NECESSARY FIELD SUPERVISORS, SUBMITTALS, AND/OR CONTRACTORS OF FIELD CONNECTIONS. CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND OBTAIN ALL NECESSARY PLANS OF WORK AND/OR EQUIPMENT AND COORDINATE WITH ALL NECESSARY FIELD SUPERVISORS, SUBMITTALS, AND/OR CONTRACTORS OF FIELD CONNECTIONS. CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND OBTAIN ALL NECESSARY PLANS OF WORK AND/OR EQUIPMENT AND COORDINATE WITH ALL NECESSARY FIELD SUPERVISORS, SUBMITTALS, AND/OR CONTRACTORS OF FIELD CONNECTIONS.

REFER TO PERMIT SHEETS FOR COORDINATION OF OUTLETS. COORDINATE PLACEMENT OF HOUSING FOR BOX BONES TO MATCH BACKBONE INSTALLATIONS. PROVIDE A DRAWING OF THE ELECTRICAL BACKBONE SERVICES MAY BE SHOWN TO FIELD, AS REQUIRED TO COORDINATE THE INSTALLATION.

CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO CONNECT EQUIPMENT AND ALL OTHER ELECTRICAL SERVICES TO THE ELECTRICAL BACKBONE.

LEAD SHEET

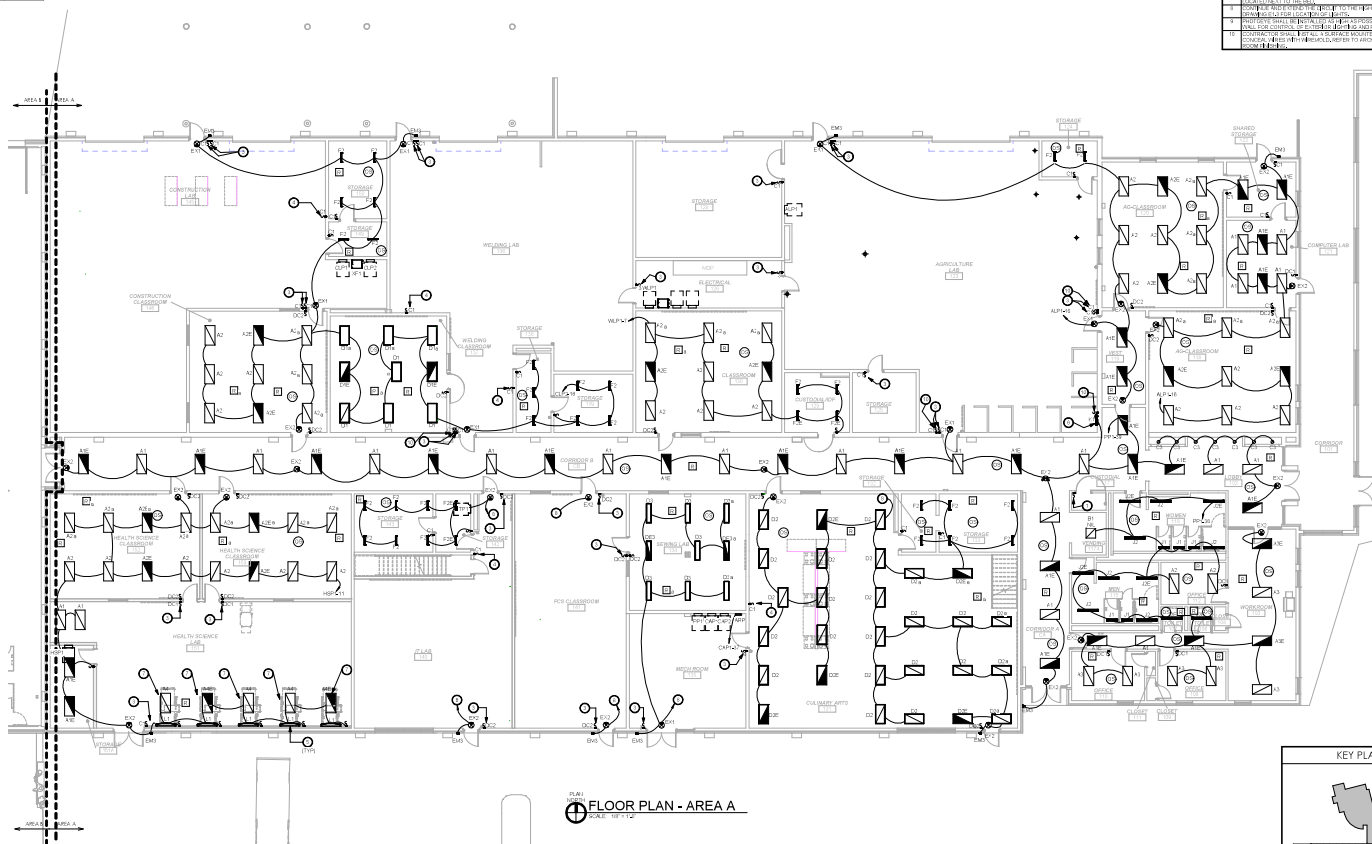
Board of Education  
Franklin, KY 42134

& Alternative School Addition

101 FOR CONSTRUCTION  
100% CDP  
06/09/2003

ross/rarrant architects  
121 E. Eldorado Avenue, Lexington, Kentucky 40502, P: 605.254.4811

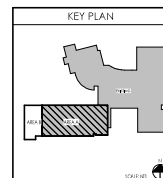
[illegible][illegible]

[illegible]

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

[illegible]

LIGHTING FLOOR PLAN - AREA A  
 Simpson Co. CTE Improvements & Alternative School Addition  
 FOR:  
 Simpson County Board of Education  
 400 S College St, Franklin, KY 42134



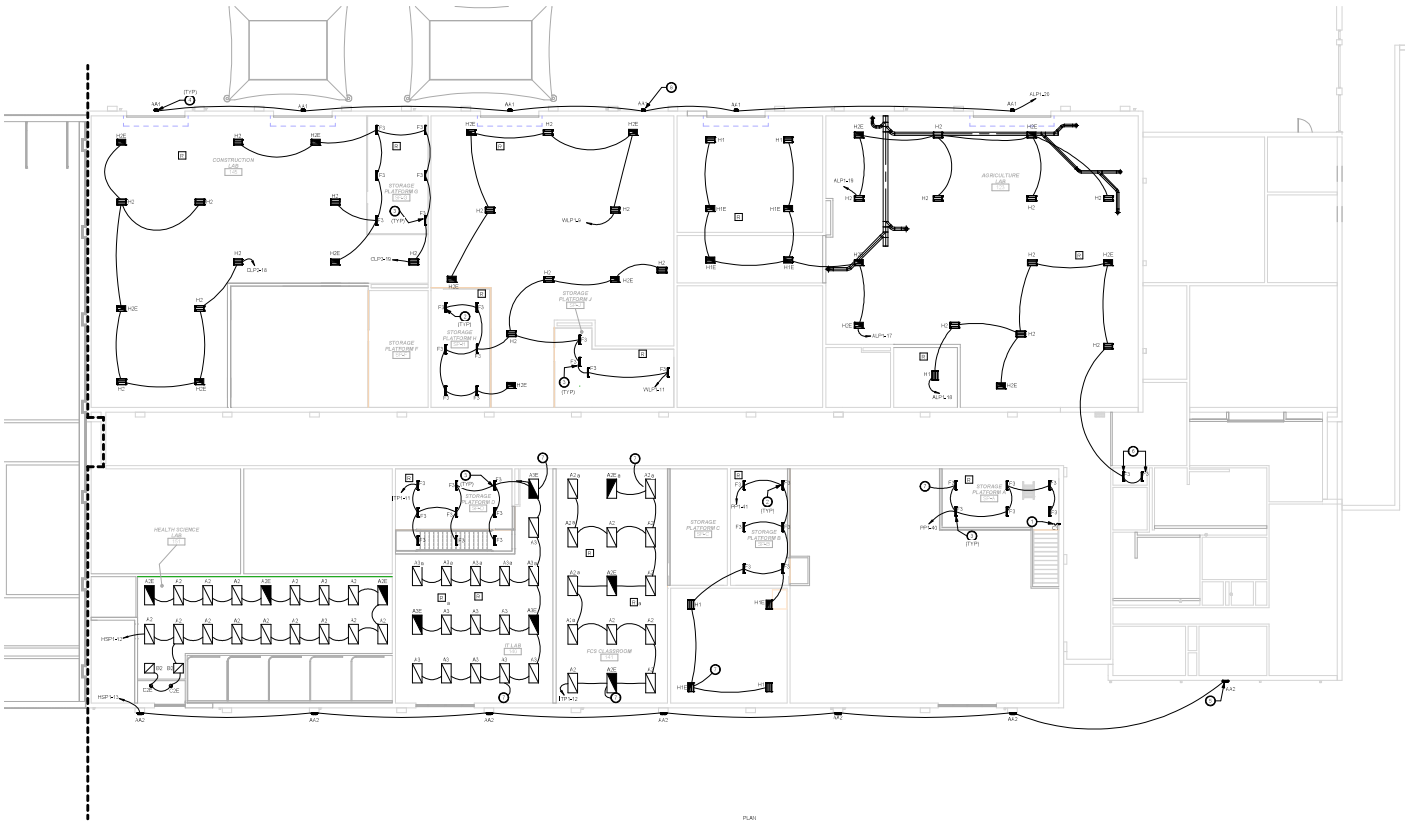
|                              |       |
|------------------------------|-------|
| BG                           |       |
| Project No:                  | 24519 |
| Drawn By:                    | AD    |
| Rev'd By:                    | B/S   |
| SHEET RELEASE                |       |
| 1                            |       |
| 2                            |       |
| 3                            |       |
| 4                            |       |
| 5                            |       |
| 6                            |       |
| 7                            |       |
| 8                            |       |
| COPYING: 2024                |       |
| Construction Documents:      |       |
| E1.1                         |       |
| ENTRANCE FLOOR PLAN - AREA A |       |
| DATE PLOTTED:                |       |

E1.1



| REV | DATE       | BY | CHK | DESCRIPTION             |
|-----|------------|----|-----|-------------------------|
| 1   | 08/11/2020 | BC |     | ISSUED FOR PERMIT       |
| 2   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 3   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 4   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 5   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 6   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 7   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 8   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 9   | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 10  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 11  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 12  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 13  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 14  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 15  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 16  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 17  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 18  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 19  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |
| 20  | 08/11/2020 | BC |     | ISSUED FOR CONSTRUCTION |

| ELECTRICAL<br>CONSTRUCTION TAG NOTES |                                                                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| (APPLIES TO THE DRAWING ONLY)        |                                                                                                                   |
| 1                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE ILLINOIS ELECTRICAL CODE (IEC). |
| 2                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 3                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 4                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 5                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 6                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 7                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 8                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 9                                    | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 10                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 11                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 12                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 13                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 14                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 15                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 16                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 17                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 18                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 19                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |
| 20                                   | ALL WIRING SHALL BE IN ACCORDANCE WITH THE ILLINOIS ELECTRICAL CODE (IEC).                                        |



FLOOR PLAN - AREA A

**NOT FOR CONSTRUCTION**  
 100% CDP  
 08/11/2020

LIGHTING FLOOR PLAN - STOR. PLATFORM  
 Simpson Co. CTE Improvements & Alternative School Addition  
 FOR:  
 Simpson County Board of Education  
 400 S College St, Franklin, KY 42134

BC  
 Project No. 2020-001  
 Design No. 2020-001  
 Date: 08/11/2020

**E1.3**  
 ELECTRICAL FLOOR PLAN  
 08/11/2020

[illegible][illegible]

| ELECTRICAL CONSTRUCTION TAG NOTES |                                                                                                                                                                                        |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                 | (IMPLIES TO THE OWNER ONLY)                                                                                                                                                            |
| 2                                 | INSTALL POWER CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY)           |
| 3                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 4                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 5                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 6                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 7                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 8                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 9                                 | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 10                                | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 11                                | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |
| 12                                | INSTALL 1/2" DIA. RIGID CONDUIT TO THE COMPRESSOR AS SHOWN ON THE ELECTRICAL SCHEDULE. PULL 12 AWG THHN 3-Phase 4-Wire (3-Phase 4-Wire) TO THE COMPRESSOR. (IMPLIES TO THE OWNER ONLY) |

## ELECTRICAL CONSTRUCTION TAG NOTES

(APPLY TO ALL DRAWINGS ONLY)

1. **ZONE BOXES:** TO BE PROVIDED AND LOCATED IN THE MANUFACTURE PLANT TO REFER TO THE AREA PLANS FOR CONNECTIONS.

2. **DISCONNECTS:** TO BE PROVIDED AND LOCATED IN THE MANUFACTURE PLANT TO REFER TO THE AREA PLANS FOR CONNECTIONS.

3. **NOT ALLIED TO THE RACK:** REFER TO "MOUNT RACK DESIGN" FOR ALL RACK RELATED DETAILS.

4. **POWER SUPPLY:** TO BE INSTALLED FOR CONNECTION TO OWNER PROVIDED SUPPLY TO THE INSTALLED RACKS. RACKS, COORDINATE RACKS WITH THE RACKS PROVIDED BY THE OWNER.

5. **POWER SUPPLY:** TO BE INSTALLED FOR CONNECTION TO OWNER PROVIDED SUPPLY TO THE INSTALLED RACKS. RACKS, COORDINATE RACKS WITH THE RACKS PROVIDED BY THE OWNER.

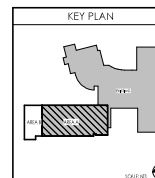
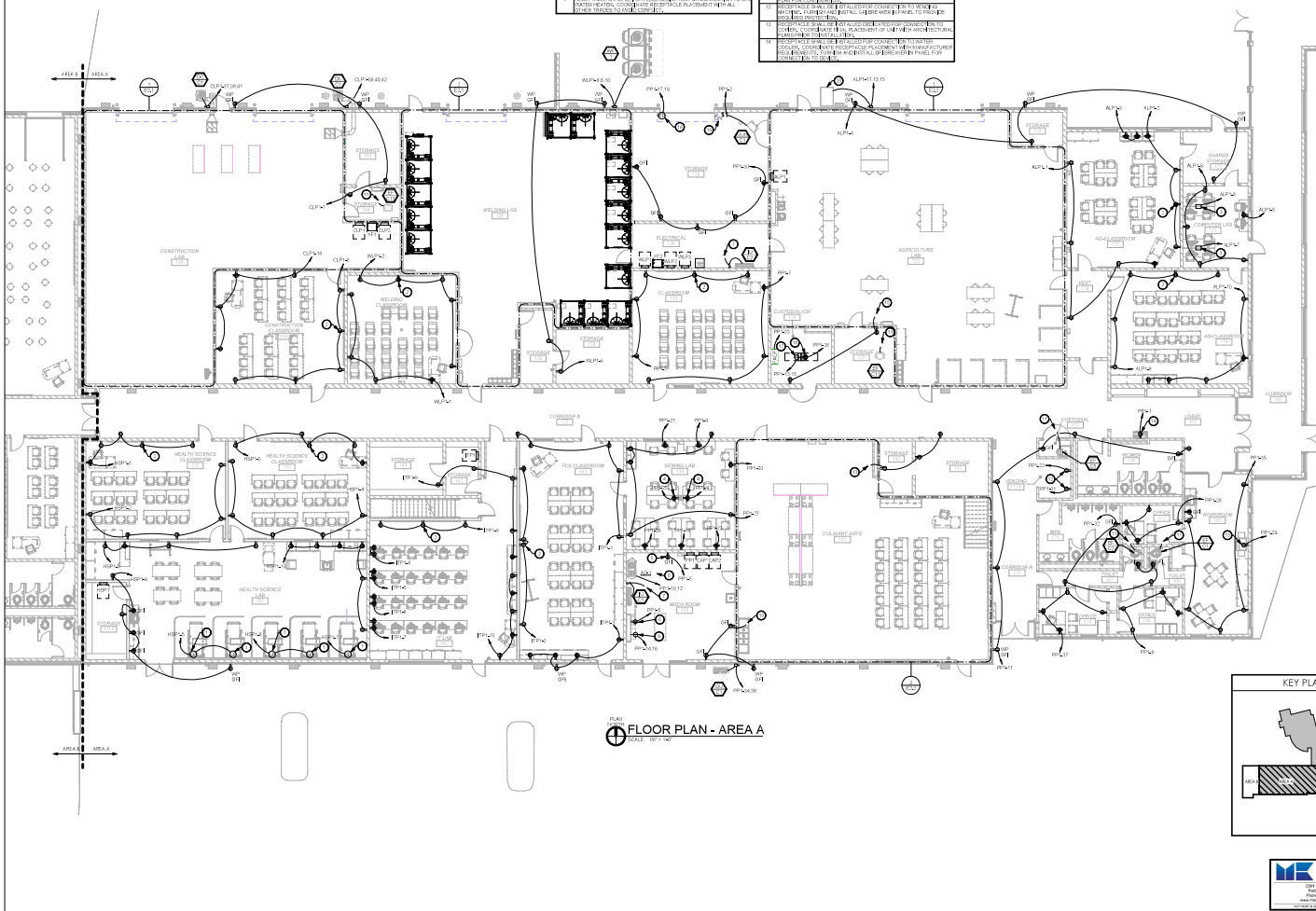
6. **NOT ALL POWER CONNECTIONS TO OVERHEAD POWER DISTRIBUTION:** TO BE PROVIDED AND LOCATED IN THE MANUFACTURE PLANT TO REFER TO THE AREA PLANS FOR CONNECTIONS.

7. **NOT ALL POWER CONNECTIONS TO OVERHEAD POWER DISTRIBUTION:** TO BE PROVIDED AND LOCATED IN THE MANUFACTURE PLANT TO REFER TO THE AREA PLANS FOR CONNECTIONS.

8. **NOT ALL POWER CONNECTIONS TO OVERHEAD POWER DISTRIBUTION:** TO BE PROVIDED AND LOCATED IN THE MANUFACTURE PLANT TO REFER TO THE AREA PLANS FOR CONNECTIONS.

## ELECTRICAL CONSTRUCTION TAG NOTES

(APPLIES TO THIS DRAWING ONLY)



**MARCUM**  
ENGINEERING, LLC

2211 McGowan Blvd  
Rochester, NY 43201  
Phone - 270-444-3374  
[www.marcumengineering.net](http://www.marcumengineering.net)

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[illegible]

**POWER FLOOR PLAN - AREA B**

**Simpson Co. CTE Improvements & Alternative School Addition**

FOR:

**Simpson County Board of Education**  
**400 S College St, Franklin, KY 42134**

DATE: 01/25/2024  
 DRAWN BY: J. B. BROWN  
 CHECKED BY: J. B. BROWN  
 PROJECT NO: 2023-001

**ROSS/CRANT architects**

101 E. 10th Street, Lexington, KY 40502 | 502.582.4031

**POWER FLOOR PLAN - AREA B**

**E1.5**

DATE: 01/25/2024  
 DRAWN BY: J. B. BROWN  
 CHECKED BY: J. B. BROWN  
 PROJECT NO: 2023-001

**ROSS/CRANT architects**

101 E. 10th Street, Lexington, KY 40502 | 502.582.4031





[illegible]

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

## ELECTRICAL CONSTRUCTION TAG NOTES

- [illegible]



SPECIAL SYSTEMS PLAN - AREA B

**J. P. Fagan**  
Forum Engineering, LLC  
aduc@f.com  
270.444.9274

**Jack H. Engle**  
FV Engineering & Testing  
aduc@f.com  
270.443.1995

**Jonathan A. Fagan**  
FV Engineering & Testing  
aduc@f.com  
270.443.1995

[illegible]

Construction Documents

**E1.7**

TELEPHONE SYSTEMS PLAN - ARE.

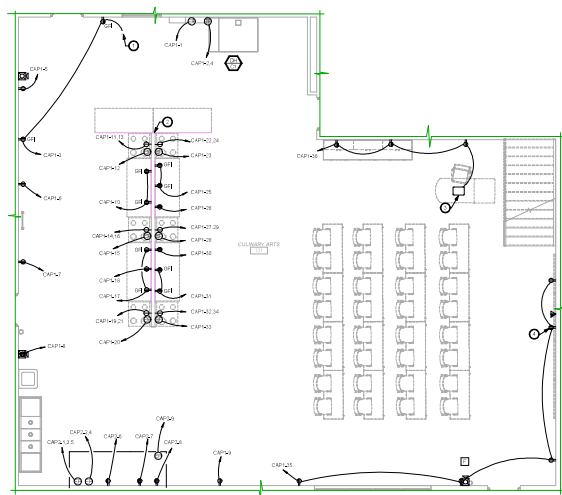
DATE PLOTTED:  
02.06.2005



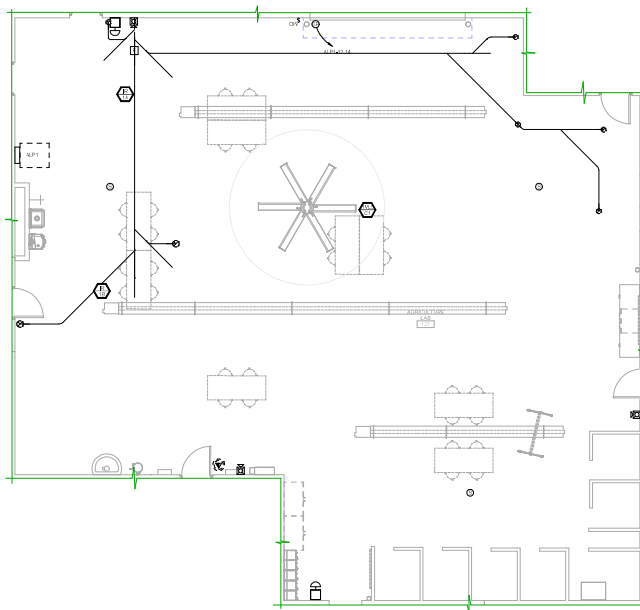
E1.7





[illegible]

## 2 PARTIAL ENLARGED CULINARY ARTS PLAN



**1 PARTIAL ENLARGED AGRICULTURAL LAB PLAN**

[illegible]

**ELECTRICAL ENLARGED FLOOR PLANS**

Simpson Co. CTE Improvements & Alternative School Addition

FOR:

Simpson County Board of Education  
400 S College St, Franklin, KY 42134

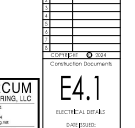
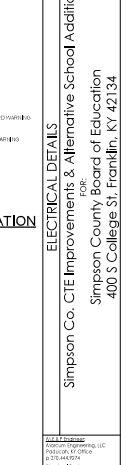
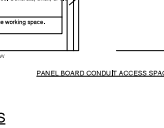
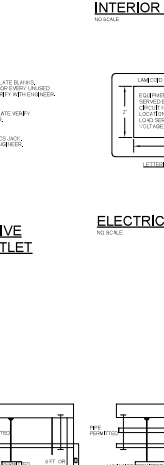
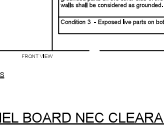
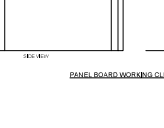
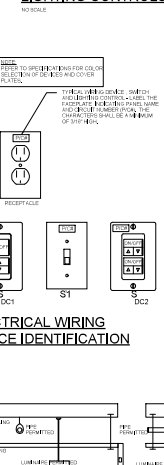
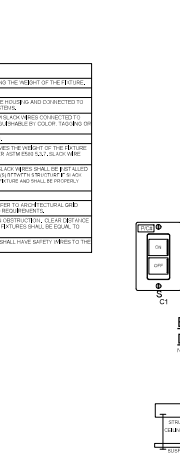
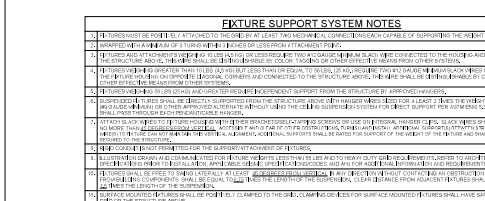
**As P.E. Engineer:**  
**Adrium Engineering, LLC**  
 Paducah, KY Office  
 p 270.444.9274  
**Structural Engineer:**  
**BW Engineering & Testing**  
 Paducah, KY Office  
 p 270.443.1995  
**Construction Administrator:**  
**Alliance Corporation**

|                                |       |
|--------------------------------|-------|
| BG                             |       |
| Project No:                    | 24310 |
| Drawn By:                      | 12831 |
| Rev'd By:                      | 12831 |
| SHEET RELEASE                  |       |
| 1                              |       |
| 2                              |       |
| 3                              |       |
| 4                              |       |
| 5                              |       |
| 6                              |       |
| 7                              |       |
| COPYRIGHT © 2024               |       |
| Construction Documents         |       |
| E2.2                           |       |
| ELECTRICAL ENLARGED FLOOR PLAN |       |
| DATE PLOTTED:                  |       |



**E2.2**  
ELECTRICAL ENLARGED FLOOR  
PLAN  
DATE ISSUED:  
DRAWING NO.:

TYP  
 HOL  
 DES  
 TYP  
 COLDING GARD RAINERS  
 (PER APO DIRECT  
 SPECIFICATION)  
 COLDING GARD RAINERS  
 (HEAVY LOAD RATING)  
 TYP  
 COLDING  
 (PER A  
 SPEC)  
 COLDING GARD RAINERS  
 (HEAVY DUTY RATING)



CONNECTION TO  
SHUNT TRIP  
BREAKER

[illegible]

FURNISH A 400V 3-Phase 3-Wire 4/0 Cable and 3-Phase 4-Wire 2/0 Cable to the BFC and PC. Connect the BFC and PC to the NETWORK. REFER TO FIGURE 10-10 FOR THE BFC AND PC CONNECTIONS.

ALL TURN-ON CONNECTIONS TO THE BFC AND PC MUST BE MADE IN THE REAR OF THE BFC AND PC.

FIGURE 10-10: 3.5T-BACHO TO BFC AND PC CONNECTIONS. The diagram shows a 3.5T-BACHO system connected to a BFC (Base Frequency Converter) and a PC (Personal Computer). The BFC is connected to the 3.5T-BACHO system via a 400V 3-Phase 3-Wire 4/0 Cable and a 3-Phase 4-Wire 2/0 Cable. The PC is connected to the BFC via a 400V 3-Phase 3-Wire 4/0 Cable and a 3-Phase 4-Wire 2/0 Cable. The BFC is connected to the PC via a 400V 3-Phase 3-Wire 4/0 Cable and a 3-Phase 4-Wire 2/0 Cable. The BFC is connected to the PC via a 400V 3-Phase 3-Wire 4/0 Cable and a 3-Phase 4-Wire 2/0 Cable.

Figure 1 is a typical wiring diagram for a three-phase, four-wire system. It shows three vertical busbars labeled "PHASE 1 120 VAC", "PHASE 2 120 VAC", and "PHASE 3 120 VAC". A horizontal "GROUND" busbar runs across the top. On the left, a "TYPICAL DOOR RELEASE DEVICE" is connected to the ground bus. Below the ground bus, a "TYPICAL STATION DEVICE" is connected to the ground bus. Three "COUNTER" units are shown, each connected to one of the phase busbars. Each counter has a "TYPICAL DESK TOP SWITCH" and a "TYPICAL POWER SUPPLY" connected to it. The counters are labeled "GENERAL PURPOSE", "PHASE 1", and "PHASE 2". A "TYPICAL STATION DEVICE" is also shown connected to the ground bus.

Diagram illustrating the components and connections of a cable tray system:

- EXTEND UP TO AND ATTACH TO STRUCTURE ABOVE
- T.C. EXTENDING TO CABLE TRAY
- SHIELDING GROUNDING WIRE
- CONDUIT CLIP TO CONDUIT WIRE
- NON-METALLIC CONDUIT BULBING
- 10 OF DATA DATA CABLES COILED AND CABLE TIE TO CONDUIT WIRE AS CONNECTOR
- WIRE BOX WITH INTERNAL SUPPORT WIRE CLAMP
- CLIPPING WIRE ATTACHED TO GROUND
- LABEL DROP
- 30" MIN.

Diagram illustrating the cable support system. The cable is supported by a CABLE SUPPORT BOX and a SPREADER BAR BOX SUPPORT. A cable is shown running from the structure to the grid by contractor two, as required. The ceiling surface is also indicated.

### INDOOR MINI-SPLIT DETAIL

**ELECTRICAL DETAILS**  
**CTE Improvements & Alternative School Addition**  
FOR:  
Simpson County Board of Education  
400 S College St, Franklin, KY 42134

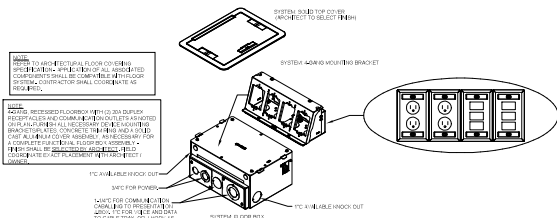
|                           |       |
|---------------------------|-------|
| <b>Project Name</b>       |       |
| American Oil Company, LLC |       |
| Production Office         |       |
| P.O. Box 447074           |       |
| Houston, TX 77244-0774    |       |
| <b>Client Contact</b>     |       |
| B/E Engineering & Testing |       |
| Production Office         |       |
| P.O. Box 441945           |       |
| Houston, TX 77244-0945    |       |
| <b>Contract Number</b>    |       |
| A-05-AS1-08-04            |       |
| <b>BG</b>                 |       |
| Project No.               | 24312 |
| Drawing No.               | 12251 |
| Rev. No.                  | 0     |
| SHEET NO. 01              |       |
| COPPIE TO 304             |       |
| Construction Documents    |       |
| <b>E4.2</b>               |       |
| ELECTRICAL DETAILS        |       |
| DATE REQUIRED:            |       |

## E4.2

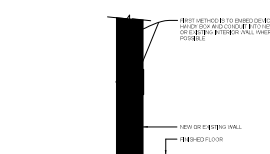
**NOTE:**  
REFER TO ARCHITECTURAL FLOOR CONSTRUCTION DETAIL. INSTALLATION OF ALL ASSOCIATED COMPONENTS SHALL BE COMPATIBLE WITH FLOOR SYSTEM. CONTRACTOR SHALL COORDINATE AS REQUIRED.

**NOTE:**  
INSTALL RECESSED FLOORBOX WITH (2) 20A DUPLEX RECEPTACLES AND COMMUNICATION OUTLETS AS NOTED ON RAIL/RAILGRAB. ALL NECESSARY DEVICE MOUNTING BRACKET/PLATES, CONCRETE TRIMMING AND A SOLID CAST ALUMINUM COVER ASSEMBLY, AS NECESSARY FOR A COMPLETE FUNCTIONAL FLOOR BOX ASSEMBLY.

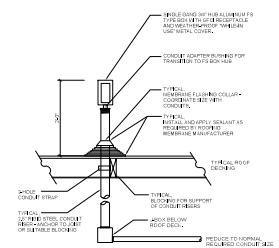
**NOTE:**  
FLOOR SHALL BE REINFORCED ABOVE THE (1) 10" CONCRETE SLAB PLACEMENT (1) 1/4" DIA. REBAR.



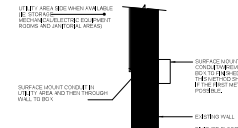
#### 4-GANG RECESSED FLOOR BOX DETAIL



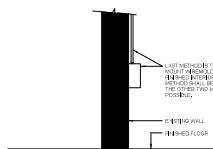
### CONDUIT ROUTING/INSTALLATION FIRST METHOD DETAIL



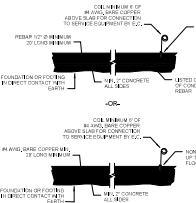
ROOF MEMBRANE - CONDUIT PENETRATION  
DETAIL FOR ROOFTOP SERVICE RECEPTACLE



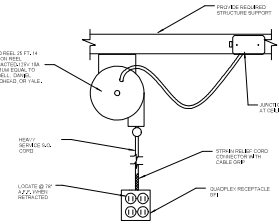
### CONDUIT ROUTING/INSTALLATION SECOND METHOD DETAIL



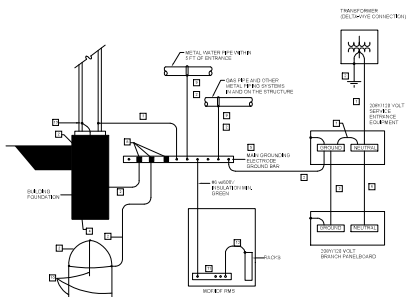
### CONDUIT ROUTING/INSTALLATION THIRD METHOD DETAIL



### GROUNDING ELECTRODE FOUNDATION CONNECTION



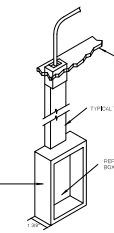
CEILING MOUNTED POWER REEL DETAIL



### GROUNDING SYSTEM DIAGRAM

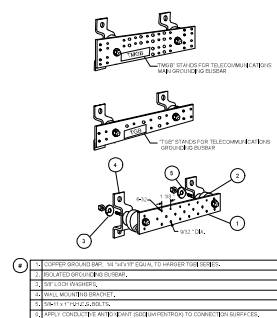
- [illegible]

- 1. CONDUCTOR SIZES SHOW VARIATION AND MAY BE LARGER THAN THE MINIMUM SIZE REQUIRED BY NEC.
- 2. INSTALL GROUNDED CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE EASY AND ACCESSIBLE FOR INSPECTOR, MAINTENANCE, AND TESTING.
- 3. INSTALL AN ISOLATED THIN-LAYER GROUNDING BUSBARS ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING METALLIC FINGER CONTACT. BOND TO GROUND BUS USING METALLIC FINGER CONTACT. BOND TO METALLIC SERVICE ENTRANCE CONDUIT USING METALLIC FINGER CONTACT. BOND TO METALLIC SERVICE ENTRANCE CONDUIT USING METALLIC FINGER CONTACT. BOND TO METALLIC SERVICE ENTRANCE CONDUIT USING METALLIC FINGER CONTACT.
- 4. INSTALL AN ISOLATED THIN-LAYER GROUNDING BUSBARS ON EACH METALLIC FINGER CONTACT. BOND TO GROUND BUS USING METALLIC FINGER CONTACT. BOND TO METALLIC SERVICE ENTRANCE CONDUIT USING METALLIC FINGER CONTACT. BOND TO METALLIC SERVICE ENTRANCE CONDUIT USING METALLIC FINGER CONTACT. BOND TO METALLIC SERVICE ENTRANCE CONDUIT USING METALLIC FINGER CONTACT.
- 5. BOND HOT AND COLD WATER SUPPLY SYSTEMS.



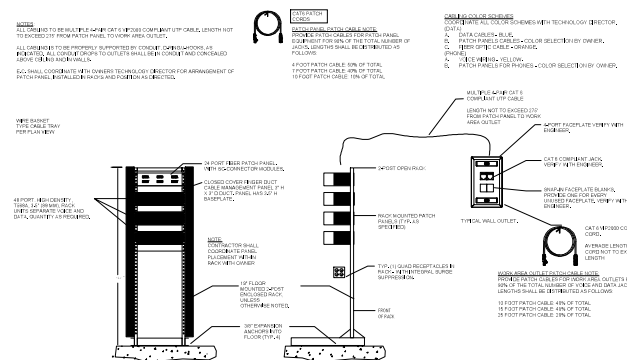
### TYPICAL SURFACE MOUNTED WIREMOLD BOX INSTALLATION



[illegible]

COMMUNICATIONS GROUND BAR DETAIL

CO



### TYPICAL 2-POST OPEN RACK CONFIGURATION DETAIL

**THE**

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]