ADDENDUM NO. 1

June 5, 2024

Connersville High School & Frazee Elem. Renovations
1100 Spartan Drive – High School
600 West Third Street – Frazee Elem.
Connersville, IN 47331

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated May 15, 2024, by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-2 and attached Gibraltar Design Addendum No. 1 dated June 5, 2024, consisting of 3 Pages, and, **Frazee Elementary** Revised Addendum Drawings M-101F, M-102F, M-103F, M-301F, M-501F, M-601F, M-602F, ED101F, EL101F, EP101F, E-501F, E-502F, E-503F, E-601F, E-602F. **Connersville HS** Revised Addendum Drawings PD201C, P-201C, P-501C, EP101C, EP111C, E-501C, and E-601C.

SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03 Bid Categories

E. Bid Category No. 5 – Fire Protection, Plumbing & HVAC

Add the following clarification:

5. Include removal, storage and reinstallation of any existing devices/equipment/fixtures related to this Bid Categories scope that's required to complete replacement of adjacent renovation work.

F. Bid Category No. 6 – Electrical & Technology

Add the following clarification:

4. Include removal, storage and reinstallation of any existing devices/equipment/fixtures related to this Bid Categories scope that's required to complete replacement of adjacent renovation work. Include extension of rough-ins where wall thickness changes.

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Frazee Elementary School and Connersville High School Natatorium Renovations** for Fayette County School Corporation, Connersville, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. **Specification Section 08 91 00** **Aluminum Wall Louvers**
   A. Add Paragraph 2.1.G. to read:
   "G. Pottorff, Fort Worth, Texas."
   B. Add Paragraph 2.5.G. to read:
   "G. Model EFD-445 (P)."

DRAWINGS

FRAZEE ELEMENTARY SCHOOL

2. **Sheet M-101F, M-102F, M-103F**
   A. Refer to three (3) revised full size drawing included in this addendum, for added pipe cover notes.
3. **Sheet M-301F**
   A. Refer to revised full size drawing included in this addendum, for the following revisions:
      1. Add demolition notes to sheet note box for hot water pumps, chemical treatment, and bypass filter.
      2. Hot water pumps and chemical treatment to be removed and notes.
      3. Add new hot water pumps, chemical treatment, and notes.
4. **Sheet M-501F**
   A. Refer to revised full size drawing included in this addendum, for HWP-1 and HWP-2 added to pump schedule.
5. **Sheet M-601F**
   A. Refer to revised full size drawing included in this addendum, for added piping support detail.

6. Sheet M-602F

A. Refer to revised full size drawing included in this addendum, for revised hot water system piping diagram.

7. Sheet ED101F

A. Refer to revised full size drawing included in this addendum, for the following revision:

1. Existing lighting controls to be demolished in Lighting Lower Level Plan.

8. Sheet EL101F

A. Refer to revised full size drawing included in this addendum, for the following revisions:

1. New lighting controls in Lighting Lower Level Plan – Unit A.
2. New lighting controls in Electrical Lighting Overall Plan.
3. Add typical classroom zoning note in 4th Grade A-111.

9. Sheet EP101F

A. Refer to revised full size drawing included in this addendum, for the following revisions:

1. Add connection to new Alternate Scope #1 in Boiler A-114.
2. Revise new panel AG1 in Boiler A-114.

10. Sheet E-501F

A. Refer to revised full size drawing included in this addendum, for Alternate HWPs added to Pump Equipment Connection Schedule.

11. Sheet E-502F

A. Refer to revised full size drawing included in this addendum, for revised panel schedules.

12. Sheet E-503F

A. Add new full size drawing included in this addendum, for new panels A1G and X-EM/LB.

13. Sheet E-601F

A. Refer to revised full size drawing included in this addendum, for revised lighting fixture schedule.

14. Sheet E-602F

A. Refer to revised full size drawing included in this addendum, for revised schematic one-line diagram.

CONNERSVILLE HS NATATORIUM

15. Sheet PD201C

A. Refer to revised full size drawing included in this addendum, for the following revisions:

1. Add location of existing domestic storage tank to remain.
2. Add locations of domestic water circulation pumps to be demolished.

16. Sheet P-201C

A. Refer to revised full size drawing included in this addendum, for the following revisions:
   1. Add location of existing domestic storage tank to remain.
   2. Add locations of new domestic water recirculation pumps CP-1 and CP-2.

17. Sheet P-501C

A. Refer to revised full size drawing included in this addendum, for the following revisions:
   1. Revised Water Heater Diagram.
   2. Revised Water Softener Diagram.
   3. Revised Plumbing Equipment Schedule.

18. Sheet EP101C

A. Refer to revised full size drawing included in this addendum, for added circuit for water heater.

19. Sheet EP111C

A. Refer to revised full size drawing included in this addendum, for the following revisions:
   1. Add and revise locations of plumbing equipment.
   2. Add Sheet Note 8.
   3. Revise note for hot water pumps on demolition plan.

20. Sheet E-501C

A. Refer to revised full size drawing included in this addendum, for the following revisions:
   1. Revise color temperature for lights visible in pool area.
   2. Add and revise plumbing equipment on mechanical connection schedule.
   3. Add water heater to Panel CJ.

21. Sheet E-601C

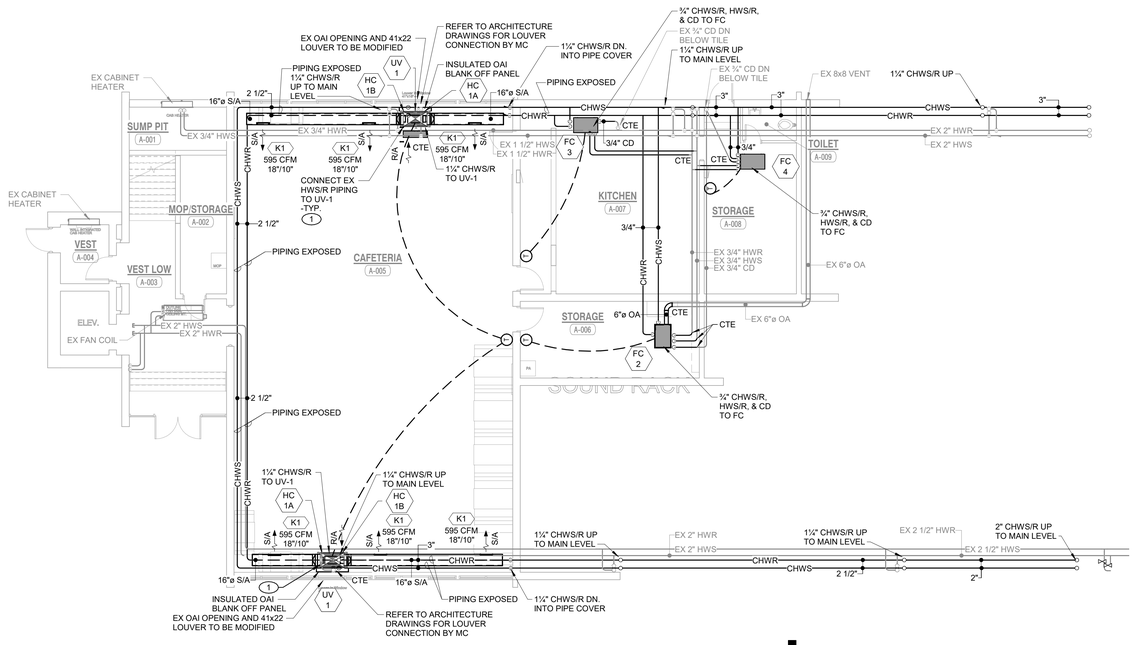
A. Refer to revised full size drawing included in this addendum, for the following revisions:
   1. Revise panel schedule templates.
   2. Revise chiller water pumps to 40 hp.
   3. Revise loads of circulation pumps.
   4. Add circuit for domestic booster pump.

Pages 1 through 3, inclusive, and Twenty-Two (22) Full-Size Drawings, constitutes the total makeup of **Addendum One**.

GIBRALTAR DESIGN

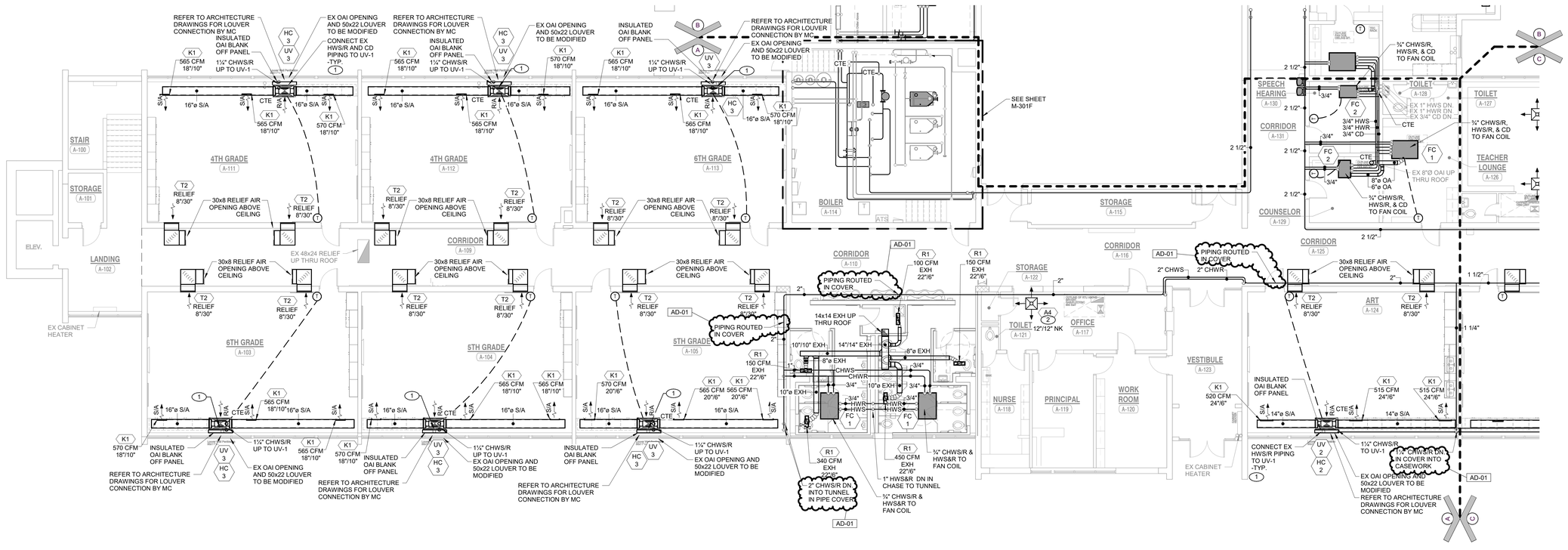
Joseph P. Briggs

_____



2 MECHANICAL LOWER LEVEL PLAN - UNIT A

M-101F — 1/8" = 1'-0"



1 MECHANICAL FIRST FLOOR PLAN - UNIT A

M-101F — 1/8" = 1'-0"

SHEET NOTES

1. CONNECT NEW HOT WATER SUPPLY, HOT WATER RETURN, AND CONDENSATE PIPING TO EXISTING HOT WATER SUPPLY, HOT WATER RETURN, AND CONDENSATE PIPING AND TO NEW UNIT VENTILATOR. NEW PIPING SHALL MATCH EXISTING PIPE SIZE.
2. CONNECT EXISTING SUPPLY AIR DUCTWORK TO NEW SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. PROVIDE ADDITIONAL DUCTWORK, IF NECESSARY. BALANCE NEW SUPPLY AIR DIFFUSER TO EXISTING AIRFLOW CAPACITY.

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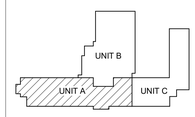
PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA



KEY PLAN — NORTH

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PROJECT 23-152
DATE 05/15/24
COORDINATED BY EH
DRAWN BY CA
CHECKED BY DJ

DAVID G. JANNEY — REGISTERED — NO. 10302590 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
UNIT "A" FIRST FLOOR AND LOWER LEVEL MECHANICAL PLANS

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

A

SHEET M-101F

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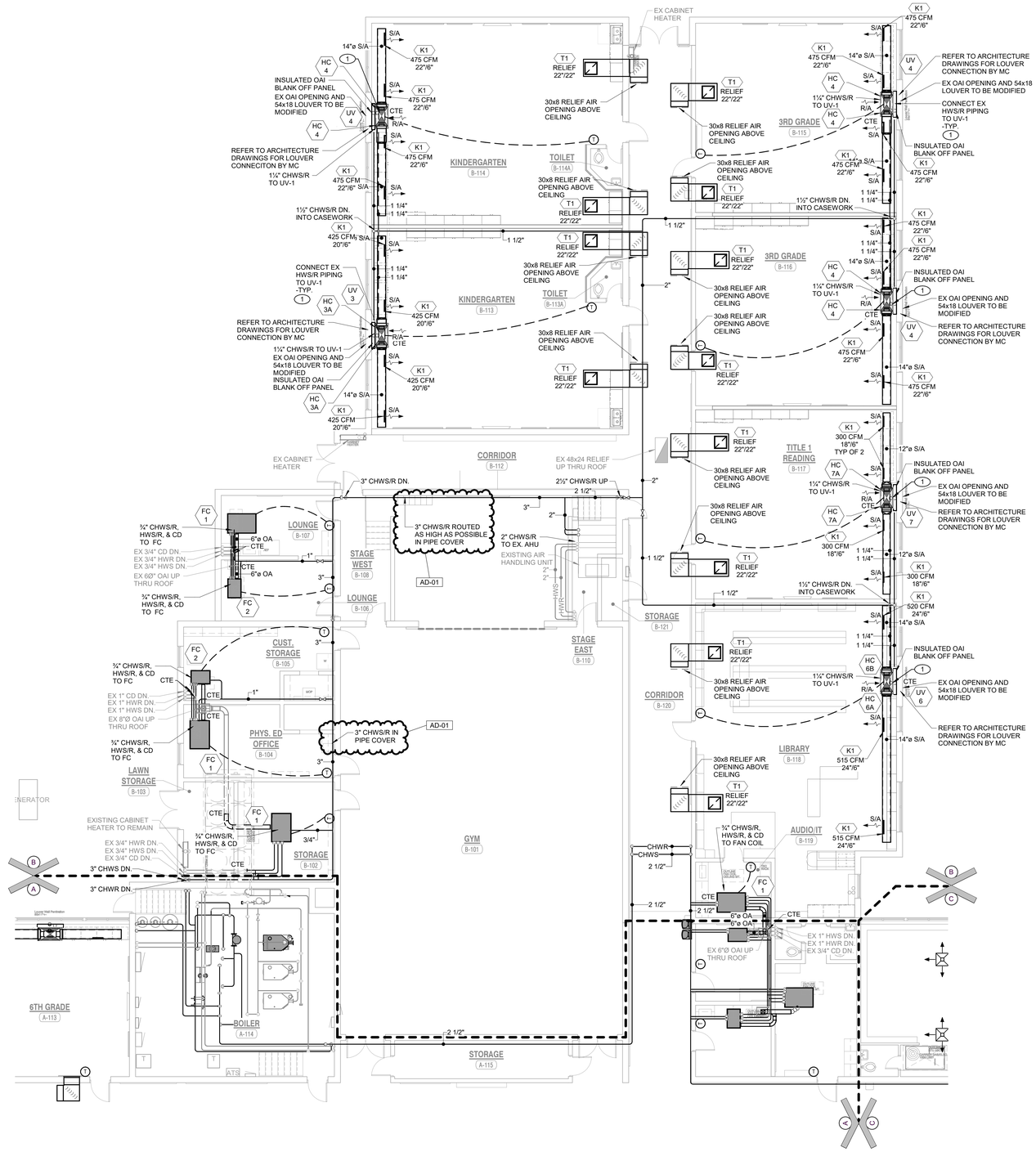
SHEET NOTES

1. CONNECT NEW HOT WATER SUPPLY AND RETURN PIPING TO EXISTING HOT WATER SUPPLY AND RETURN PIPING AND TO NEW UNIT VENTILATOR. NEW PIPING SHALL MATCH EXISTING PIPE SIZE.



1 MECHANICAL FIRST FLOOR PLAN - UNIT B
M-102F 1/8" = 1'-0"

NORTH

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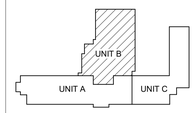
CONNERSVILLE, INDIANA



KEY PLAN NORTH

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DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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AD-01	06/05/24	ADDENDUM 1

DRAWING
UNIT "B" MECHANICAL FIRST FLOOR PLAN

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

B

SHEET M-102F

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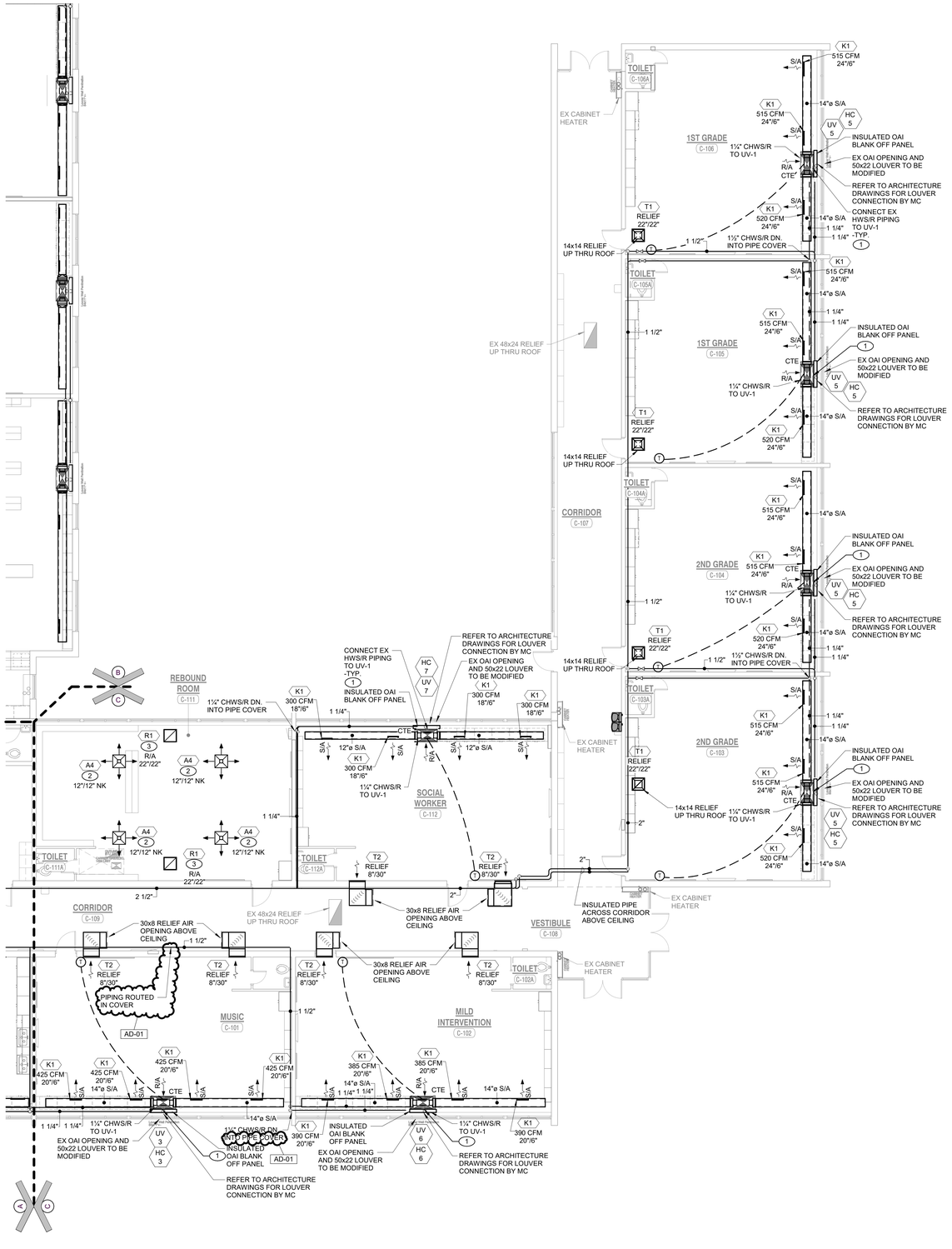
SHEET NOTES

1. CONNECT NEW HOT WATER SUPPLY AND RETURN PIPING TO EXISTING HOT WATER SUPPLY AND RETURN PIPING AND TO NEW UNIT VENTILATOR. NEW PIPING SHALL MATCH EXISTING PIPE SIZE.
2. CONNECT EXISTING SUPPLY AIR DUCTWORK TO NEW SUPPLY AIR DIFFUSER COMPLETE AS REQUIRED. PROVIDE ADDITIONAL DUCTWORK, IF NECESSARY. BALANCE NEW SUPPLY AIR DIFFUSER TO EXISTING AIRFLOW CAPACITY.
3. CONNECT EXISTING RETURN AIR DUCTWORK TO NEW RETURN AIR GRILLE COMPLETE AS REQUIRED. PROVIDE ADDITIONAL DUCTWORK, IF NECESSARY. BALANCE NEW RETURN AIR GRILLE TO EXISTING AIRFLOW CAPACITY.



1 MECHANICAL FIRST FLOOR PLAN - UNIT C

M-103F 1/8" = 1'-0"

NORTH

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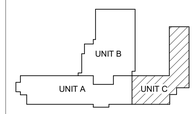
FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA



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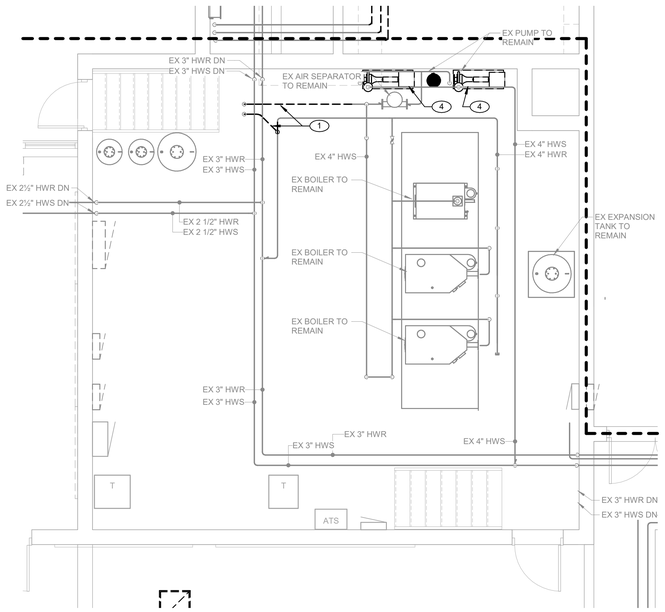
DRAWING
UNIT "C" MECHANICAL FIRST FLOOR PLAN

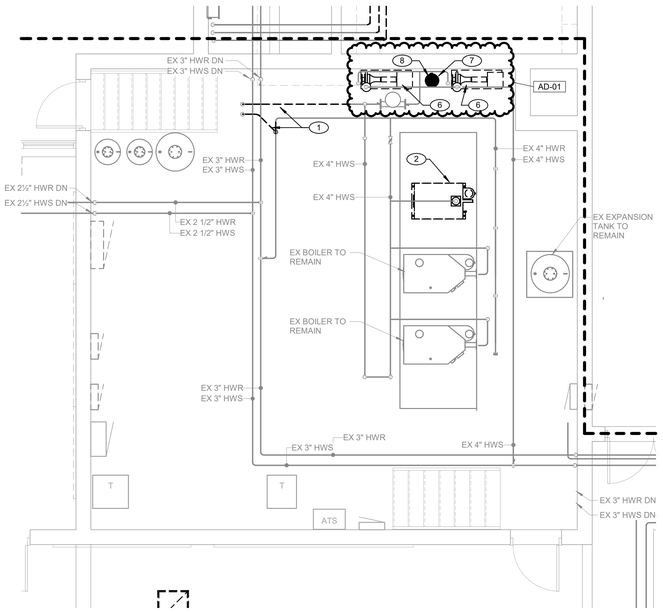
PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

SHEET
C M-103F



1 M-301F MECHANICAL DEMOLITION PLAN - BOILER ROOM

1/4" = 1'-0"



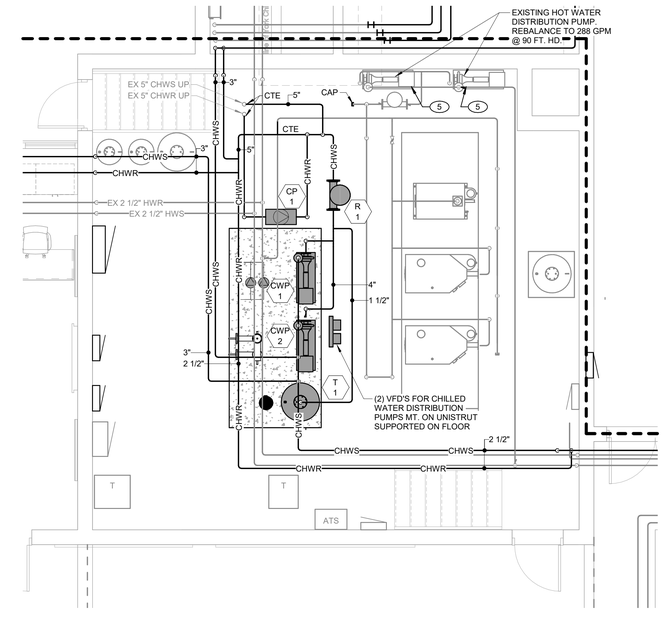
2 M-301F MECHANICAL DEMOLITION PLAN - BOILER ROOM ALTERNATE

1/4" = 1'-0"

SHEET NOTES

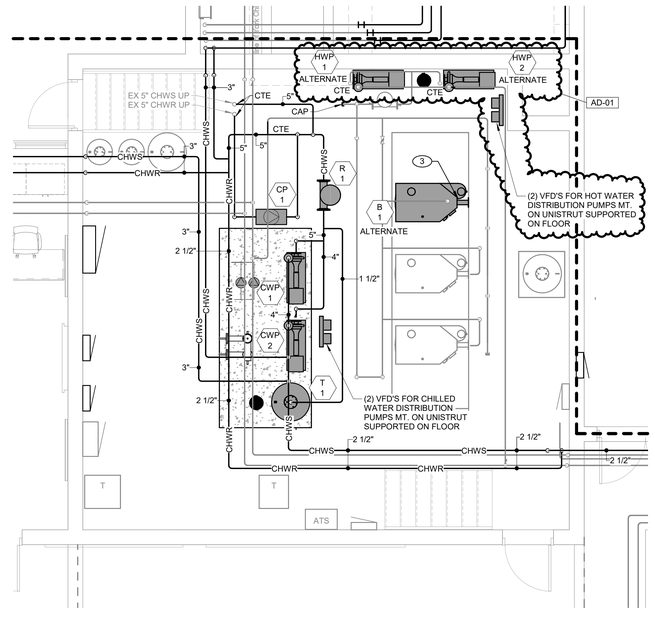
1. REMOVE EXISTING CHILLED WATER SUPPLY & RETURN PIPING AND ASSOCIATED VALVES COMPLETE AS REQUIRED.
2. REMOVE EXISTING BOILER AND ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, GAS PIPING, FLUES, CONTROLS, ELECTRICAL POWER CONNECTIONS, ETC COMPLETE AS REQUIRED.
3. CONNECT NEW HOT WATER SUPPLY, HOT WATER RETURN, AND GAS PIPING TO EXISTING HOT WATER SUPPLY, HOT WATER RETURN, AND GAS PIPING AND TO NEW BOILER.
4. CLEAN, LUBRICARE, AND CHECK EXISTING PUMP FOR PROPER OPERATION. TEST THE EXISTING PUMP FLOW CAPACITIES AND PUMP HEAD CAPABILITES BEFORE ANY SYSTEM MODIFICATIONS HAVE BEGUN AND SUBMIT FOR REVIEW.
5. BALANCE EXISTING PUMP TO QUANTITY INDICATED ON PLANS.
6. REMOVE EXISTING HOT WATER PUMPS AND ASSOCIATED PIPING, VALVES, CONTROLS, ELECTRICAL CONNECTIONS, ETC. COMPLETE AS REQUIRED.
7. REMOVE EXISTING CHEMICAL TREATMENT AND ASSOCIATED PIPING, ETC. COMPLETE AS REQUIRED.
8. REMOVE EXISTING BYPASS FILTER AND ASSOCIATED PIPING, ETC. COMPLETE AS REQUIRED.

AD-01



3 M-301F MECHANICAL PLAN - BOILER ROOM

1/4" = 1'-0"



4 M-301F MECHANICAL PLAN - BOILER ROOM ALTERNATE

1/4" = 1'-0"

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FOR:

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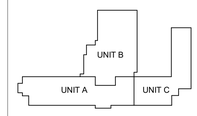

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PROJECT
23-152
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DJ

REGISTERED PROFESSIONAL ENGINEER
DAVID G. JANNEY
NO. 10302590
STATE OF INDIANA

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
MECHANICAL PLANS - BOILER ROOM

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

SHEET
M-301F

MECHANICAL EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA								EXHAUST FANS					CHILLED WATER COOLING EQUIPMENT/COIL DATA										HOT WATER HEATING EQUIPMENT/COIL DATA							ELECTRICAL DATA										UNITS CONTROLLED	EQUIPMENT WEIGHT	REMARKS
						MIN OAI CFM																											MAX	LOAD								STARTER:					
					CFM	HIGH	LOW	TSP	ESP	BHP	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH	SHC	GPM	EDB	EWB	LDB	LWB	EWT	LWT	WPD	CAT	MBH (IN)	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	WPD	HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ.	MC.	EC.	BY		
UV-1	SYSTEMAIR	FRESHMAN - C	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1800	755	-	-	0.1	-	1	-	-	-	-	-	-	91.21	57.15	15	84.4	70.9	55.7	55.4	45	57.12	12	-	115.3	93.05	8	34	92.94	135	105.8	12	-	9.25	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
UV-2	SYSTEMAIR	FRESHMAN - C	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1550	570	-	-	0.1	-	1	-	-	-	-	-	-	74.9	48.22	12.4	82.8	69.6	54.7	54.4	45	57.03	12	-	99.35	98.4	8	40	98.95	135	109.8	12	-	9.25	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
UV-3	SYSTEMAIR	FRESHMAN - C	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1700	565	-	-	0.1	-	0.75	-	-	-	-	-	-	73.66	50.36	12.2	85.0	70.5	58.2	57.4	45	57.03	12	-	105	65.1	8	40	96.82	135	108.4	12	-	7.38	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
UV-4	SYSTEMAIR	FRESHMAN - C	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1900	748	-	-	0.1	-	1	-	-	-	-	-	-	60.83	38.54	10.1	76.9	66.9	54.4	54.2	45	57	12	-	55.96	73.8	8	51.2	84.32	135	120.8	12	-	9.25	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
UV-5	SYSTEMAIR	FRESHMAN - C	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1550	410	-	-	0.1	-	1	-	-	-	-	-	-	70.51	50.22	11.7	82.3	68.9	58.4	57.5	45	57.01	12	-	98.35	66.4	8	51.9	99.38	135	110.1	12	-	9.25	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
UV-6	SYSTEMAIR	FRESHMAN - C	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1550	325	-	-	0.1	-	1	-	-	-	-	-	-	52.81	36.73	8.8	78.3	67.0	56.9	56.2	45	56.96	12	-	53.59	55.8	8	54.9	86.58	135	121.4	12	-	9.25	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
UV-7	SYSTEMAIR	FRESHMAN - B	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	-	1200	110	-	-	0.1	-	1	-	-	-	-	-	-	32.61	32.61	5.4	76.5	57.8	51.7	57.3	45	57.03	12	-	40.9	32.8	8	64.2	95.34	135	124.6	12	-	9.25	-	-	15	240	1	60	X	-	TSTAT	-	NOTE 1
FC-1	IEC	CBY-06	HORIZONTAL RECESSED FAN COIL UNIT - CHW/HW 4 PIPE	-	545	-	-	-	0.1	-	1/6	-	-	-	-	-	-	19.2	12.8	3.8	80.2	68.4	58.9	57.5	45	56.5	12	-	-	16.4	3.3	60.1	88.1	135	125	12	-	-	1.9	-	-	120	1	60	X	-	TSTAT	-	NOTE 2
FC-2	IEC	CBY-03	HORIZONTAL RECESSED FAN COIL UNIT - CHW/HW 4 PIPE	-	255	-	-	-	0.1	-	1/7	-	-	-	-	-	-	8.7	6	2	77.4	65.7	55.6	54.3	45	53.7	12	-	-	7.3	2.9	70.8	97.5	135	129.9	12	-	-	1.5	-	-	120	1	60	X	-	TSTAT	-	NOTE 2
FC-3	IEC	CXB-12	HORIZONTAL CABINET FAN COIL UNIT - CHW/HW 4 PIPE	-	1115	-	-	-	0.1	-	(2)1/6	-	-	-	-	-	-	37.4	24.7	7.6	77.6	66.9	57.5	56.2	45	54.7	12	-	-	21.3	1	63.3	81	135	92.2	12	-	-	4.8	-	15	120	1	60	X	-	TSTAT	-	NOTE 2
FC-4	IEC	CXB-04	HORIZONTAL CABINET FAN COIL UNIT - CHW/HW 4 PIPE	-	320	-	-	-	0.1	-	1/6	-	-	-	-	-	-	10.3	6.6	2	77.1	67.1	58.5	57.0	45	55	12	-	-	13.4	1	65.1	104	135	107.9	12	-	-	2.1	-	-	120	1	60	X	-	TSTAT	-	NOTE 2
B-1	LOCHINVAR	FB-1001	CONDENSING HOT WATER BOILER - ALTERNATE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	999	961	96	-	-	115	135	12	-	8	-	-	-	120	1	60	X	-	EX FMS	1838	NOTE 5
TEF-1	GREENHECK	GB-130	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	-	-	-	1190	0.3	1/4	1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	15	120	1	60	X	-	WALL MTD. SWITCH	-	NOTE 3
HC-1A	TRANE	DSTB15016G0BA150BABA00B	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.7	1.37	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-1	-	NOTE 4
HC-1B	TRANE	DT0B15018G0BA150EABA0AB	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.64	2.67	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-2	-	NOTE 4
HC-2	TRANE	DW0B19022G0DA095	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.94	3.4	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-3	-	NOTE 4
HC-3	TRANE	DW0B19024G0DA090	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.44	3.65	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-4	-	NOTE 4
HC-3A	TRANE	DSTB15016G0BA150BABA0AB	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.1	1.91	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-5	-	NOTE 4
HC-4	TRANE	DSTB15016G0BA150EABA0AB	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.98	2.2	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-6	-	NOTE 4
HC-5	TRANE	DW0B19022G0DA095	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.94	3.4	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-7	-	NOTE 4
HC-6	TRANE	DW0B19022G0DA094	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.4	3.35	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-8	-	NOTE 4
HC-6A	TRANE	DSTB15016G0BA150EABA0AB	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.02	2.31	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-9	-	NOTE 4
HC-6B	TRANE	DSTB15016G0BABA00B	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.44	1.25	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-10	-	NOTE 4
HC-7	TRANE	DW0B150200G0DA150	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.95	2.6	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-11	-	NOTE 4
HC-7A	TRANE	DSTB15016G0BA150BABA00B	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.78	1.38	55	75	135	115	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-12	-	NOTE 4
HC-8	TRANE	DW0B31030G0DA080	HOT WATER HEATING COIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300.28	30.04	40	101.5	160	140	12	-	-	-	-	-	-	-	-	-	-	INT'LCK W/ UV-8	-	NOTE 4

NOTE 1:
PROVIDE WITH:
- INTEGRATED ENTHALPY ECONOMIZER
- WALL SLEEVE AND LOUVER
- DISCONNECT SWITCH
- 6" FALSEBACK
- FILLER PANEL FROM BACK OF UNIT TO WALL
- 13"W. UTILITY SIDE CABINET
- TERMINAL STRIPS FOR DDC READY
- FACE AND BYPASS DAMPER

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE 2:
PROVIDE WITH:
- VIBRATION ISOLATION HANGERS
- INTEGRAL S/A & R/A GRILLE
- DISCONNECT SWITCH
- CONDENSATE PUMP
- UNIT CONFIGURATION:
- BOTTOM SUPPLY AIR GRILLE
- BOTTOM RETURN AIR GRILLE
- BACK OUTSIDE AIR INTAKE DUCT COLLAR

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE 3:
PROVIDE WITH:
- DISCONNECT SWITCH
- MOTORIZED DAMPER
- BIRD SCREEN
- ROOF CURB

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE 4:
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTE 5:
PROVIDE WITH:
- COMBUSTION AIR INTAKE DAMPER
- NEUTRALIZATION BASIN

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

AD-01

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	GPM	HEAD (FT.)	PUMP MOTOR DATA							SUCTION/ DISCHARGE SIZE	REMARKS
						HP	RPM	VOLT	PHASE	HZ.	STARTER: MC.	STARTER: EC.		
CWP-1	BELL & GOSSETT	E-1510 2BD	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	166	70	7 1/2	1561	480	3	60	X	-	4"/4"	CHILLED WATER PRIMARY PUMPS W/ VFD OPERATING IN PARALLEL. 332 GPM @ 70 FT. HD. WITH DUAL POWER FEEDERS
CWP-2	BELL & GOSSETT	E-1510 2BD	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	166	70	7 1/2	1561	480	3	60	X	-	4"/4"	
CP-1	BELL & GOSSETT	E-80 4x4x7B	IN-LINE CHILLER PUMP	332	30	5	1750	480	3	60	X	-	4"/4"	-
HWP-1	BELL & GOSSETT	E-1510 2EB	BASE MOUNTED HOT WATER DISTRIBUTION PUMP - ALTERNATE	301	90	10	1750	480	3	60	X	-	3"/2"	ALTERNATE
HWP-2	BELL & GOSSETT	E-1510 2EB	BASE MOUNTED HOT WATER DISTRIBUTION PUMP - ALTERNATE	301	90	10	1750	480	3	60	X	-	3"/2"	ALTERNATE

INTAKE/RELIEF HOOD SCHEDULE

TAG	MANUFACTURER	MODEL #	THROAT SIZE	DESCRIPTION	HOOD LOCATION	REMARKS
RH-1	ACME	#TIV	14x14	RELIEF AIR HOOD	ROOF	PROVIDE W/ BIRDSCREEN, BAROMETRIC RELIEF DAMPER. AND 18" HIGH ROOF CURB.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	TYPE OF CONTROL	REMARKS
A4	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' x 2' LAY-IN PANEL	SEE PLANS	OBD	
K1	Price Industries	SDGE Series	Spiral Duct Grille Extruded Aluminum					
R1	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	OBD	
T1	NAILOR	6145H	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	-	
T2	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	SURFACE-MOUNTED	SEE PLANS	-	

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PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

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PROJECT
23-152
DATE
05/15/24
COORDINATED BY
EH
DRAWN BY
CA
CHECKED BY
DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
MECHANICAL SCHEDULES

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

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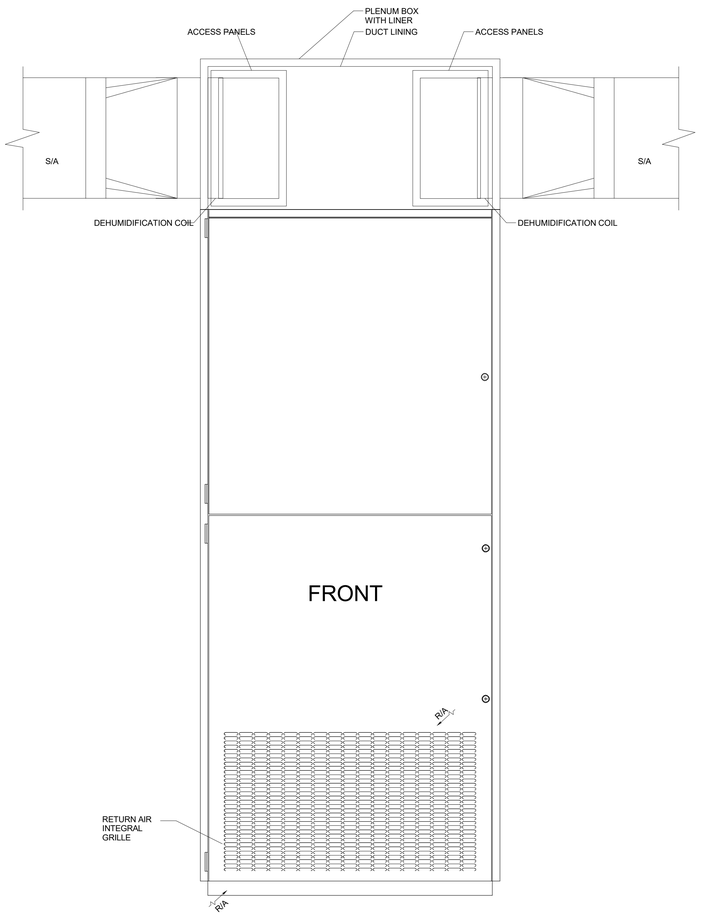
TYPICAL UNIT VENTILATOR SECTION

N.T.S.

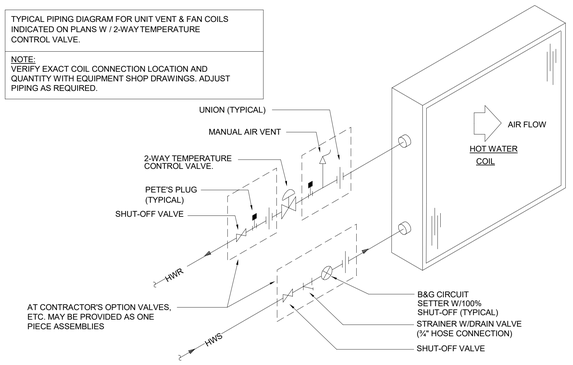


HOT WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR UNIT VENT & FAN COILS INDICATED ON PLANS W / 2-WAY TEMPERATURE CONTROL VALVE.

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

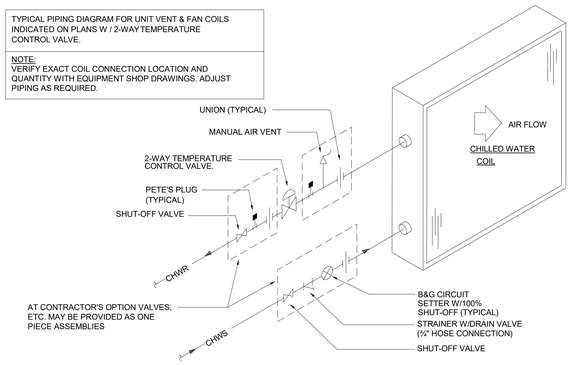


CHILLED WATER COOLING COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR UNIT VENT & FAN COILS INDICATED ON PLANS W / 2-WAY TEMPERATURE CONTROL VALVE.

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

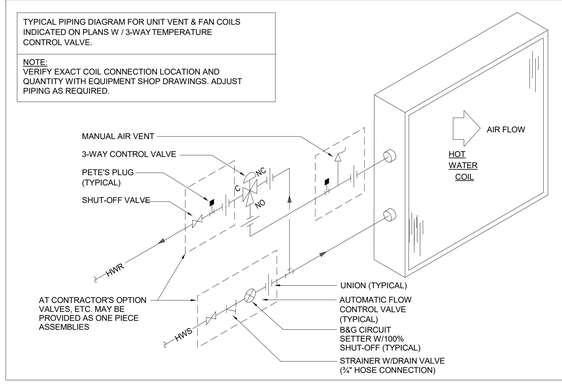


HOT WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR UNIT VENT & FAN COILS INDICATED ON PLANS W / 3-WAY TEMPERATURE CONTROL VALVE.

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



CHILLED WATER COOLING COIL PIPING DIAGRAM

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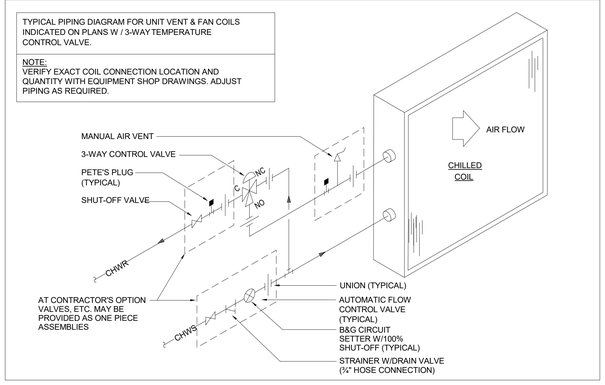
TYPICAL PIPING DIAGRAM FOR UNIT VENT & FAN COILS INDICATED ON PLANS W / 3-WAY TEMPERATURE CONTROL VALVE.

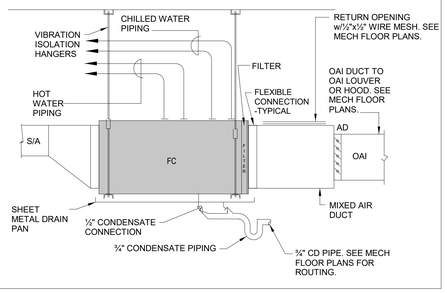
NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



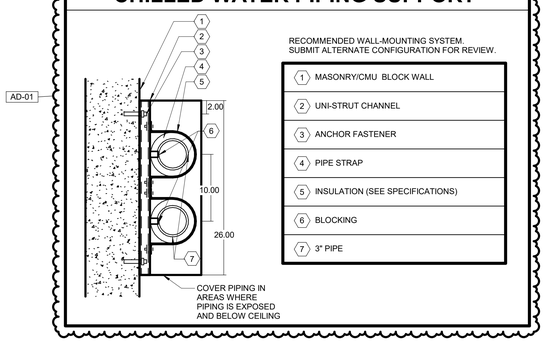
FAN COIL CONNECTION DETAIL

(N.T.S.)

NOTES:
- DETAIL TYPICAL FOR ALL FAN COIL UNITS
- VERIFY ALL SIZES ON PLANS AND WITH ACTUAL EQUIPMENT PROVIDED.



CHILLED WATER PIPING SUPPORT



RECOMMENDED WALL-MOUNTING SYSTEM. SUBMIT ALTERNATE CONFIGURATION FOR REVIEW.

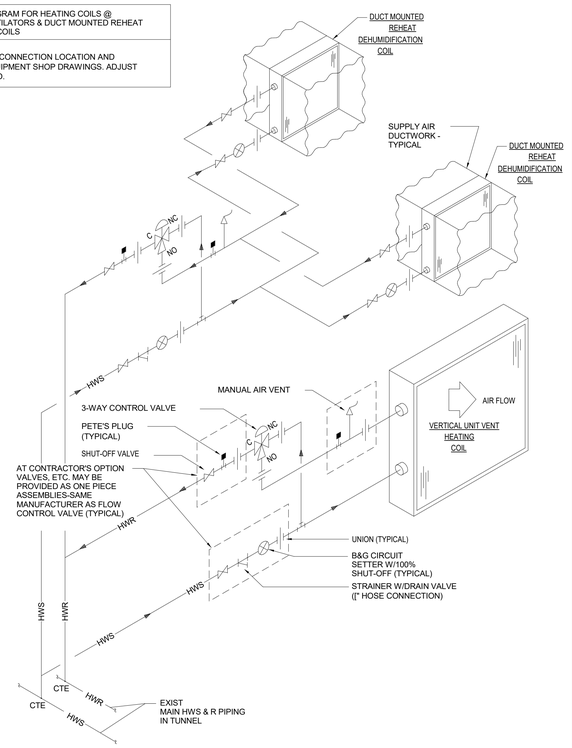
1	MASONRY/CMU BLOCK WALL
2	UNI-STRUT CHANNEL
3	ANCHOR FASTENER
4	PIPE STRAP
5	INSULATION (SEE SPECIFICATIONS)
6	BLOCKING
7	3" PIPE

HOT WATER COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR HEATING COILS @ VERTICAL UNIT VENTILATORS & DUCT MOUNTED REHEAT DEHUMIDIFICATION COILS

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



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PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

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PROJECT
23-152
DATE
05/15/24
COORDINATED BY
EH
DRAWN BY
CA
CHECKED BY
DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
MECHANICAL DETAILS & DIAGRAMS

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

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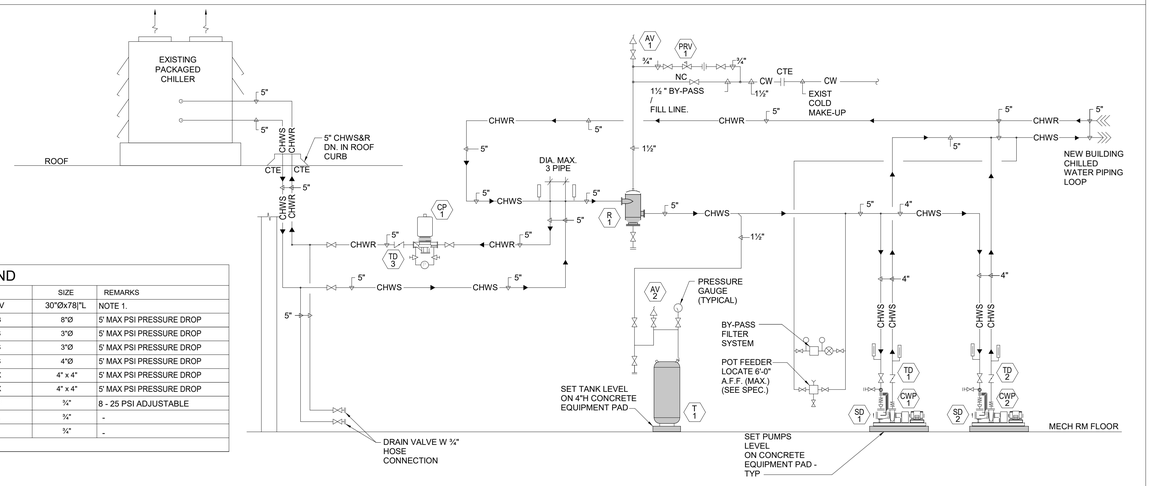
CHILLER WATER PIPING DIAGRAM

SCHEMATIC ONLY



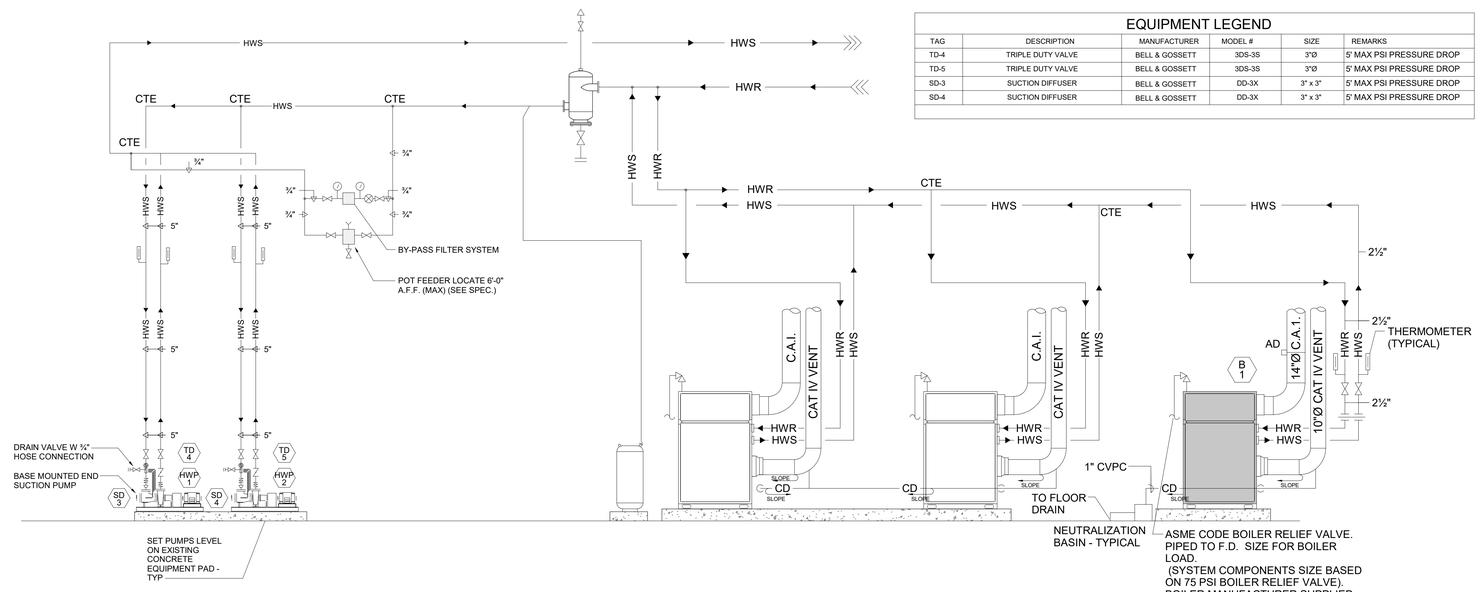
EQUIPMENT LEGEND

TAG	DESCRIPTION	MANUFACTURER	MODEL #	SIZE	REMARKS
T-1	EXPANSION TANK	BELL & GOSSETT	D-280V	30"Ø x78|"L	NOTE 1.
R-1	AIR SEPERATOR	BELL & GOSSETT	R-8FB	8"Ø	5' MAX PSI PRESSURE DROP
TD-1	TRIPLE DUTY VALVE	BELL & GOSSETT	3D-3S	3"Ø	5' MAX PSI PRESSURE DROP
TD-2	TRIPLE DUTY VALVE	BELL & GOSSETT	3D-3S	3"Ø	5' MAX PSI PRESSURE DROP
TD-3	TRIPLE DUTY VALVE	BELL & GOSSETT	3D-4S	4"Ø	5' MAX PSI PRESSURE DROP
SD-1	SUCTION DIFFUSER	BELL & GOSSETT	EE-3X	4" x 4"	5' MAX PSI PRESSURE DROP
SD-2	SUCTION DIFFUSER	BELL & GOSSETT	EE-3X	4" x 4"	5' MAX PSI PRESSURE DROP
PRV-1	PRESSURE REDUCING VALVE	BELL & GOSSETT	B7-12	¾"	8 - 25 PSI ADJUSTABLE
AV-1	AUTOMATIC AIR VENT	BELL & GOSSETT	87A	¾"	-
AV-2	AUTOMATIC AIR VENT	BELL & GOSSETT	67	¾"	-

NOTE 1: MIN. EXPANSION VOL. = 71 GAL., MIN. TANK VOL.=182 GAL.

HOT WATER SYSTEM PIPING DIAGRAM

SCHEMATIC ONLY



EQUIPMENT LEGEND

TAG	DESCRIPTION	MANUFACTURER	MODEL #	SIZE	REMARKS
TD-4	TRIPLE DUTY VALVE	BELL & GOSSETT	3DS-3S	3"Ø	5' MAX PSI PRESSURE DROP
TD-5	TRIPLE DUTY VALVE	BELL & GOSSETT	3DS-3S	3"Ø	5' MAX PSI PRESSURE DROP
SD-3	SUCTION DIFFUSER	BELL & GOSSETT	DD-3X	3" x 3"	5' MAX PSI PRESSURE DROP
SD-4	SUCTION DIFFUSER	BELL & GOSSETT	DD-3X	3" x 3"	5' MAX PSI PRESSURE DROP

AD-01

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PROJECT:

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PROJECT 23-152
DATE 05/15/24
COORDINATED BY EH
DRAWN BY CA
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

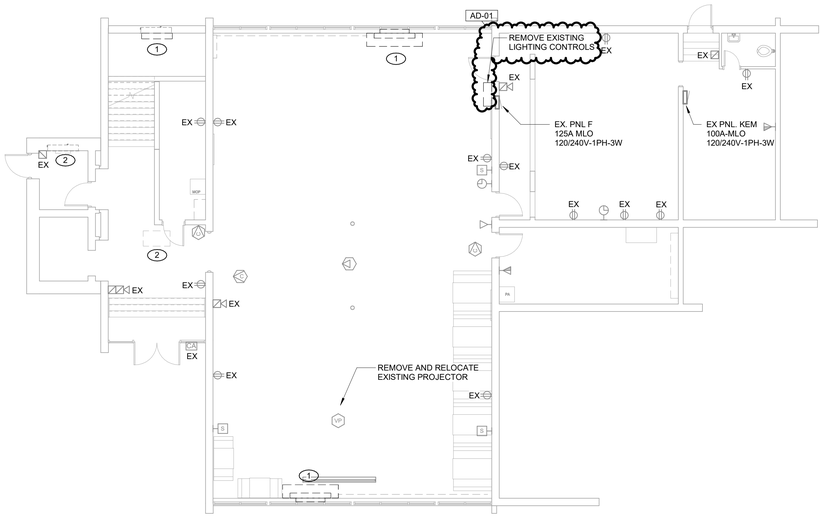
REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
MECHANICAL DETAILS & DIAGRAMS

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

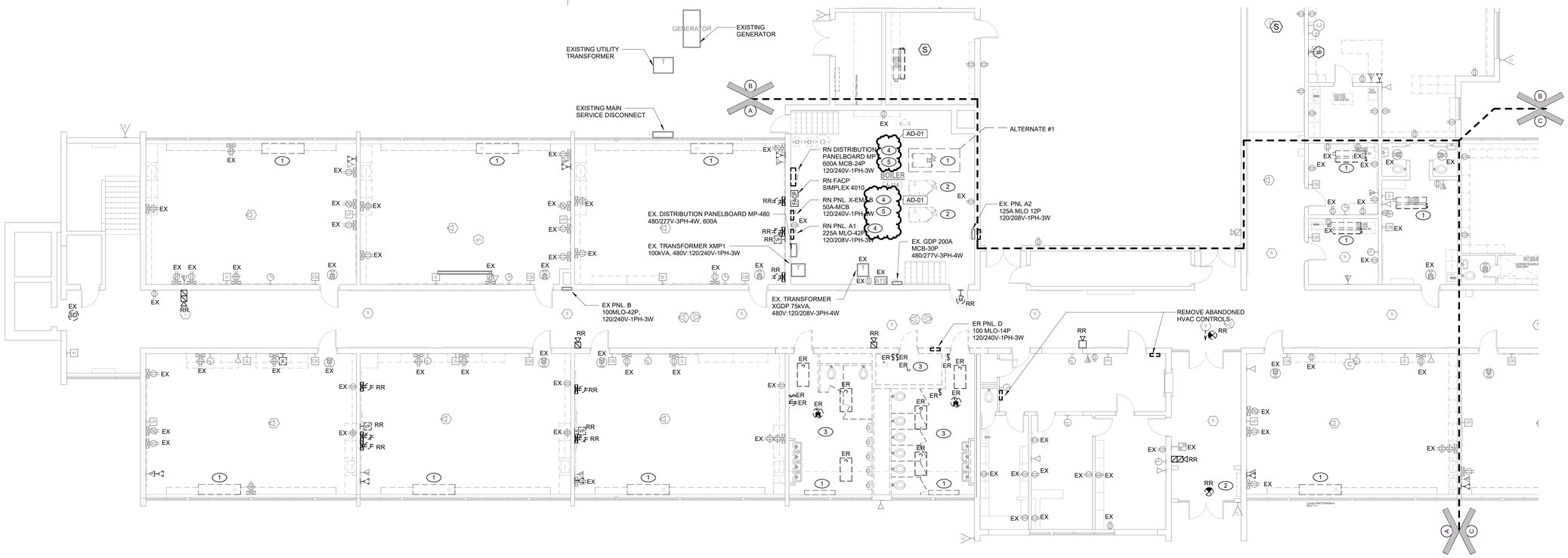
SHEET
M-602F



2 ELECTRICAL DEMOLITION LOWER LEVEL PLAN - UNIT A

ED101F 1/8" = 1'-0"

NORTH



1 ELECTRICAL DEMOLITION FIRST FLOOR PLAN - UNIT A

ED101F 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. CAREFULLY REVIEW EXISTING CONDUITS, DEVICES, ETC. IN ROOMS ALONG WITH DRAWINGS TO REVIEW FOR CONFLICTS. REMOVE AND RELOCATE CONDUITS, DEVICES, BOXES, CLOCKS, INTERCOM SPEAKERS, SOUND REINFORCEMENT SYSTEM SPEAKERS, BELLS, STRUCTURED CABLEING, FIRE ALARM, OTHER EXISTING ELECTRICAL SYSTEMS, ETC. AS REQUIRED TO ACCOMMODATE ARCHITECTURAL, CEILING WORK, MECHANICAL, CASEWORK REVISIONS IN INDIVIDUAL ROOMS, ETC. COMPLETE AS REQUIRED.
2. REFER TO SHEETS EL101F FOR LIGHTING AND CONTROLS TO BE REMOVED AND REPLACED WITH NEW.
3. REFER TO SINGLE-LINE DIAGRAM FOR PANELBOARDS TO BE REPLACED AND OTHER POWER DISTRIBUTION WORK.
4. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING, WIRING, ETC., AS REQUIRED TO FACILITATE DEMOLITION AND RECONSTRUCTION WORK. COORDINATE WITH GENERAL CONSTRUCTION. THE CONTRACTOR IS HEREBY ADVISED THAT THESE DRAWINGS MAY NOT INDICATE ALL EXISTING WIRING AND/OR EQUIPMENT WHICH MUST BE REMOVED, REWORKED, RELOCATED, ETC., TO ACCOMMODATE DEMOLITION AND RECONSTRUCTION WORK IN THE EXISTING BUILDING.
5. ALL TELECOMMUNICATION DEVICES SHOWN ON PLAN ARE FOR REFERENCE ONLY. REFER TO TELECOM PLANS FOR DIRECTION FOR TELECOMMUNICATION SCOPE.

SHEET NOTES

1. DISCONNECT EXISTING ELECTRICAL CONNECTION FOR MECHANICAL EQUIPMENT TO BE REMOVED. REPLACE CONDUIT AND WIRING CONNECTION FOR NEW EQUIPMENT IN THE SAME LOCATION. SEE POWER PLANS FOR ADDITIONAL INFORMATION.
2. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
3. LIGHTING WORK SHOWN IN SPACE TO BE FOLLOWED PER THIS SHEET AS THERE IS RENOVATIONS TO THE SPACE AND LIGHTING SYSTEM IS BEING REPLACED WITH NEW.

AD-01

4. REMOVE AND REPLACE EXISTING SURFACE MOUNTED PANEL. PAINT WALL SURFACE TO MATCH EXISTING CONDITIONS.
5. EXTEND THE EXISTING MAIN FEEDER AND BRANCH CIRCUITRY FROM THE EXISTING PANEL TO THE NEW PANEL AND CONNECT, COMPLETE AS REQUIRED. THE NEW PANEL SHALL MATCH THE EXISTING PANEL VOLTAGE, WIRING, PHASE, AIC RATING, ETC. VERIFY THE QUANTITY AND AMPERAGE OF ALL BREAKERS WITH IN THE PANEL AND PROVIDE THE NEW PANEL CIRCUIT BREAKERS TO MATCH. NEW PANELBOARDS SHALL BE PROVIDED WITH A COPPER GROUND TERMINAL BUS CONNECT TO THE CABINET/MAIN FEEDER CONDUIT WITH A GROUND CONDUCTOR SIZED PER CODE. ALL EXISTING BRANCH CIRCUIT GROUND CONNECTIONS SHALL BE CONNECTED TO THE NEW GROUND BUS. PROVIDE ALL CONDUIT, WIRING, SPLICE BOXES, SPLICING KITS, ETC. FOR A COMPLETE AND CODE COMPLIANT INSTALLATION. COORDINATE CONDITIONS AND REQUIRMENTS IN FIELD.

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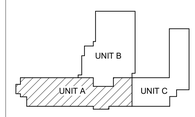
PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA



KEY PLAN NORTH

100% CONSTRUCTION DOCUMENTS

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Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-152
DATE 05/15/24
COORDINATED BY BK
DRAWN BY BoK
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

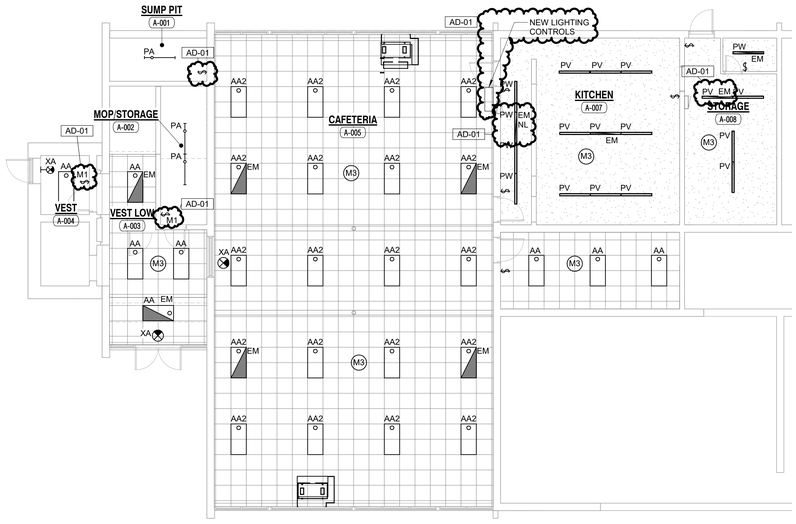
MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
UNIT "A" ELECTRICAL FIRST FLOOR AND LOWER LEVEL DEMOLITION PLANS

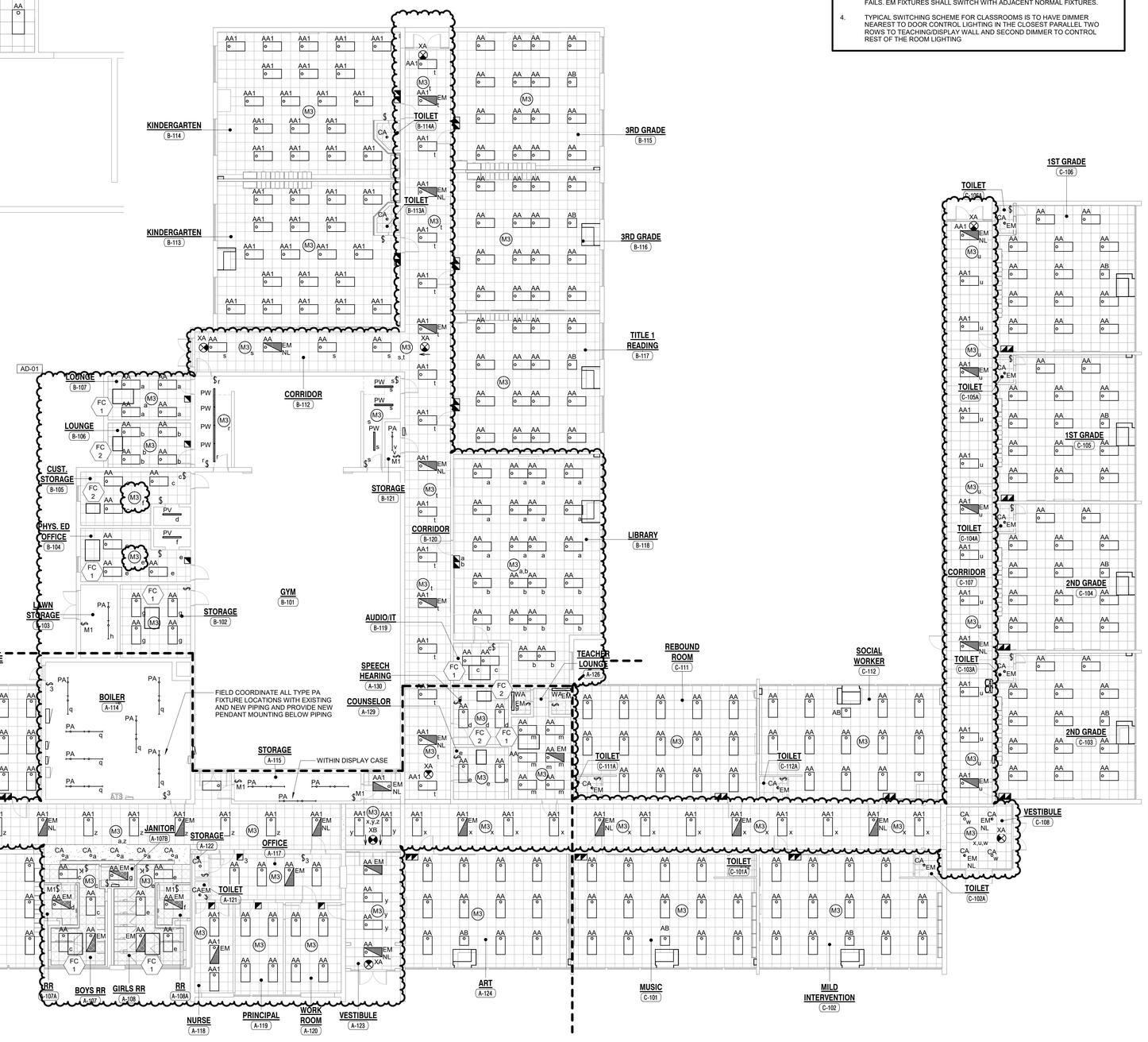
PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

A

SHEET ED101F



2 ELECTRICAL LIGHTING LOWER LEVEL PLAN - UNIT A
EL101F 1/8" = 1'-0"



1 ELECTRICAL LIGHTING OVERALL PLAN
EL101F 3/32" = 1'-0"

GENERAL NOTES

1. DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES, EQUIPMENT, LIGHTING, WIRING, ETC. AS REQUIRED TO FACILITATE CEILING DEMOLITION AND RECONSTRUCTION WORK. COORDINATE WITH GENERAL CONSTRUCTION. THE CONTRACTOR IS HEREBY ADVISED THAT THESE DRAWINGS MAY NOT INDICATE ALL EXISTING WIRING AND/OR LIGHTING WHICH MUST BE REMOVED, REWORKED, RELOCATED, ETC., TO ACCOMADATE DEMOLITION AND RECONSTRUCTION WORK IN THE EXISTING BUILDING.
2. RECONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY AND NEW SWITCHING DEVICES, MAXIMUM 1400W PER 120 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
3. CONNECT INTEGRAL BATTERIES OF NEW EMERGENCY LIGHT FIXTURES AND EXIT SIGNS TO EXISTING LIGHTING CIRCUITRY AHEAD OF LOCAL SWITCHING, MAXIMUM 1400W PER 120 VOLT CIRCUIT. LIGHTING AND EXIT SIGNS SHALL OPERATE ON BATTERY WHEN NORMAL LIGHTING CIRCUIT FAILS. EM FIXTURES SHALL SWITCH WITH ADJACENT NORMAL FIXTURES.
4. TYPICAL SWITCHING SCHEME FOR CLASSROOMS IS TO HAVE DIMMER NEAREST TO DOOR CONTROL LIGHTING IN THE CLOSEST PARALLEL TWO ROWS TO TEACHING/DISPLAY WALL AND SECOND DIMMER TO CONTROL REST OF THE ROOM LIGHTING

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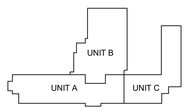
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA



KEY PLAN NORTH

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REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER DAVID G. JANNEY

REVISIONS

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AD-01	06/05/24	ADDENDUM 1

DRAWING
OVERALL ELECTRICAL LIGHTING PLAN

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

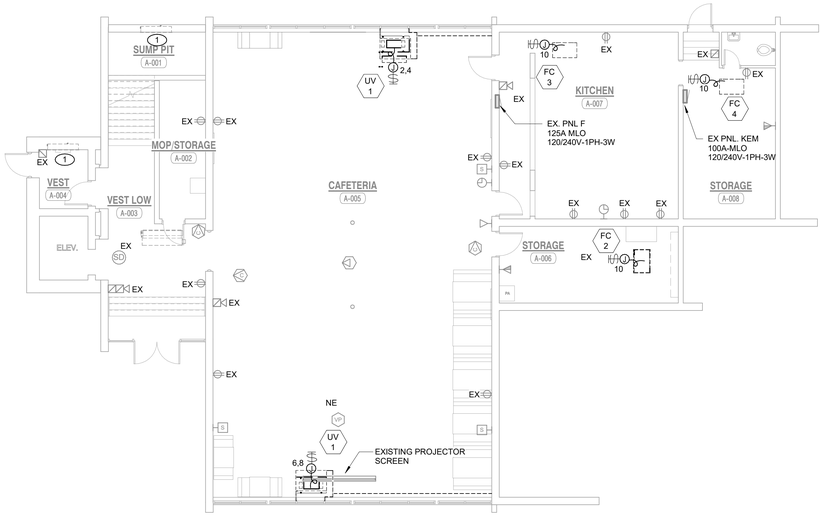
SHEET
EL101F

GENERAL NOTES

1. CIRCUIT ALL DEVICES TO PANEL INDICATED BY PANEL DIVISION LINES UNLESS OTHERWISE NOTED.

SHEET NOTES

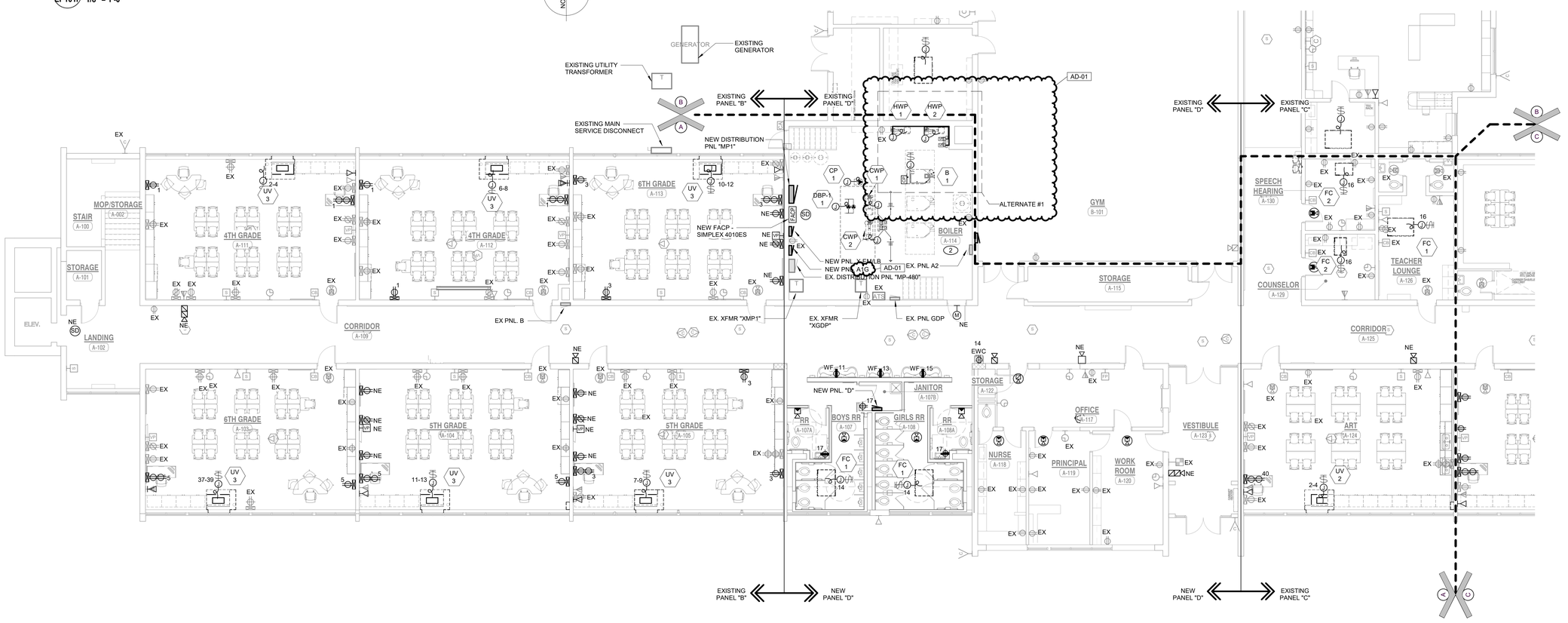
1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ALL SCHEDULING FOR CIRCUITING IN BOILER ROOM A-114.



2 EP101F ELECTRICAL POWER LOWER LEVEL PLAN - UNIT A

1/8" = 1'-0"

NORTH



1 EP101F ELECTRICAL POWER FIRST FLOOR PLAN - UNIT A

1/8" = 1'-0"

NORTH

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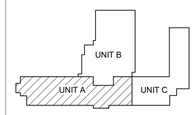
PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA



KEY PLAN

NORTH

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DJ

REGISTERED PROFESSIONAL ENGINEER
DAVID G. JANNEY
NO. 10302590
STATE OF INDIANA

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AD-01	06/05/24	ADDENDUM 1

DRAWING
UNIT "A" ELECTRICAL POWER FIRST FLOOR AND LOWER LEVEL PLANS

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

SHEET
A
EP101F

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD					MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTER BY:		LOCATION	REMARKS
		WATTS	HP	MCA	FLA	AMPS						C/B	CABLE	C	MC.	EC.		
UV-1	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	2220	-	9	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UV-2	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	2220	-	9	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UV-3	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	1771.2	-	7	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UV-4	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	2220	-	9	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UV-5	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	2220	-	9	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UV-6	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	2220	-	9	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UV-7	VERTICAL UNIT VENTILATOR - HOT WATER/CHILLED WATER - 4 PIPE	2220	-	9	-	-	15	240	1	VARIES	VARIES	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
FC-1	HORIZONTAL RECESSED FAN COIL UNIT - CHW/HW 4 PIPE	228	-	-	1.9	-	-	120	1	VARIES	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	X	-	-	-
FC-2	HORIZONTAL RECESSED FAN COIL UNIT - CHW/HW 4 PIPE	180	-	-	1.5	-	-	120	1	VARIES	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	X	-	-	-
FC-3	HORIZONTAL CABINET FAN COIL UNIT - CHW/HW 4 PIPE	576	-	-	4.8	-	15	120	1	VARIES	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	X	-	-	-
FC-4	HORIZONTAL CABINET FAN COIL UNIT - CHW/HW 4 PIPE	252	-	-	2.1	-	-	120	1	VARIES	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	X	-	-	-
B-1	CONDENSING HOT WATER BOILER	960	-	8	-	-	-	120	1	VARIES	VARIES	20A/1P	'2 #12 & 1 #12 GRD	3/4"	X	-	-	-ALTERNATE
TEF-1	ROOF MOUNTED TOILET EXHAUST FAN	864	-	7	-	-	15	120	1	VARIES	VARIES	20A/1P	2 #12 & 1 #12 GRD	3/4"	X	-	-	-
DBP-1	DOMESTIC BOOSTER PUMP	-	5	-	-	-	0	480	3	MP-480	-	15A/3P	4 #12 & 1 #12 GRD	3/4"	X	-	-	-

PUMP EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD	HP	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH	FEEDER		STARTED BY:		LOCATION	REMARKS
		WATTS							C/B	CABLE	C	MC.	EC.		
CWP-1	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	9134	7 1/2	-	480	3	MP-480	-	40A/3P	4 #8 & 1 #10 GRD	3/4"	X	-	-	-
CWP-2	BASE MOUNTED CHILLED WATER DISTRIBUTION PUMP	9134	7 1/2	-	480	3	MP-480	-	40A/3P	4 #8 & 1 #10 GRD	3/4"	X	-	-	-
CP-1	IN-LINE CHILLER PUMP	6311	5	-	480	3	MP-480	-	15A/3P	4 #12 & 1 #12 GRD	3/4"	X	-	-	-
HWP-1	BASE MOUNTED HOT WATER DISTRIBUTION PUMP - ALTERNATE	11626	10	-	480	3	MP-480	-	25A/3P	4 #10 & 1 #10 GRD	3/4"	X	-	-	ALTERNATE
HWP-2	BASE MOUNTED HOT WATER DISTRIBUTION PUMP - ALTERNATE	11626	10	-	480	3	MP-480	-	25A/3P	4 #10 & 1 #10 GRD	3/4"	X	-	-	ALTERNATE

AD-01

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PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

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PROJECT
23-152
DATE
05/15/24
COORDINATED BY
BK
DRAWN BY
BoK
CHECKED BY
DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
ELECTRICAL SCHEDULES

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

SHEET
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NEW D

AD-01 REVISED FROM PLAN

LOCATION: JANITOR 107B
MOUNTING: Surface
ENCLOSURE: Type 1
A.I.C. RATING: 22000
Notes:

VOLTS: 120/240 Single
PHASES: 1
MAINS TYPE: MCB
MAIN RATING: 100A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	2
3	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	4
5	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	6
7	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	8
9	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	10
11	WASH FOUNTAIN		20 A	1		1000		456	1	20 A		FC-1 - RM A-107/108	12
13	WASH FOUNTAIN		20 A	1	100		1000		1	20 A		EWC	14
15	WASH FOUNTAIN		20 A	1		1000		0	1	20 A		SPARE	16
17	REC - RM 107A/106A		20 A	1	400		0		1	20 A		SPARE	18
19	SPARE		20 A	1		0		0	1	20 A		SPARE	20
21	SPARE		20 A	1	0		0		1	20 A		SPARE	22
23	SPARE		20 A	1		0		0	1	20 A		SPARE	24
25	SPACE		--	1	--		--		1	--		SPACE	26
27	SPACE		--	1		--		--	1	--		SPACE	28
29	SPACE		--	1	--		--		1	--		SPACE	30

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	1500 VA
TOTAL CONNECTED LOAD PHASE B:	3456 VA
TOTAL CONNECTED LOAD:	4956 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 21 A

EX. C

LOCATION:
SUPPLY FROM:
MOUNTING: Recessed
ENCLOSURE: Type 1
A.I.C. RATING:
Notes:

VOLTS: 120/240 Single
PHASES: 1
MAINS TYPE:
MAIN RATING:
BUSSING:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		1120		2	20 A		UV-2 - RM A-124	2
3	EXISTING POWER		20 A	1		0		1120					4
5	EXISTING POWER		20 A	1	0		1120		2	20 A		UV-7 - RM A-112	6
7	SPARE		20 A	1		0		1120					8
9	UV-3 - RM C101		20 A	2	885		1120		2	20 A		UV-6 - RM C-102	10
11						885		1120					12
13	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	14
15	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	16
17	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	18
19	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	20
21	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	22
23	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	24
25	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	26
27	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	28
29	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	30
31	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	32
33	EXISTING POWER		20 A	1	1600		0		1	20 A		EXISTING POWER	34
35	REC - RM C111		20 A	1		1000		0	1	20 A		EXISTING POWER	36
37	REC - RM C112		20 A	1	800		0		1	20 A		EXISTING POWER	38
39	REC - RM C102		20 A	1		0		1600	1	20 A		REC - RM C-101/102	40
41	SPARE		20 A	1	0		0		1	20 A		SPARE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	6645 VA
TOTAL CONNECTED LOAD PHASE B:	6845 VA
TOTAL CONNECTED LOAD:	13490 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 56 A

NEW A

LOCATION: GYM B-101
SUPPLY FROM: MP-1
MOUNTING: Recessed
ENCLOSURE: Type 1
A.I.C. RATING: 22000
Notes:

VOLTS: 120/240 Single
PHASES: 1
MAINS TYPE: MCB
MAIN RATING: 100A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	2
3	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	4
5	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	6
7	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	8
9	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	10
11	EXISTING POWER		20 A	1		0		0	1	20 A		SPARE	12
13	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	14
15	EXISTING POWER		20 A	1		0		0	1	20 A		SPARE	16
17	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	18
19	SPARE		20 A	1		0		0	1	20 A		SPARE	20
21	SPARE		20 A	1	0		0		1	20 A		SPARE	22
23	SPARE		20 A	1		0		0	1	20 A		SPARE	24
25	SPARE		20 A	1	0		0		1	20 A		SPARE	26
27	SPARE		20 A	1		0		0	1	20 A		SPARE	28
29	SPARE		20 A	1	0		0		1	20 A		SPARE	30
31	SPARE		20 A	1		0		0	1	20 A		SPARE	32
33	SPARE		20 A	1	0		0		1	20 A		SPARE	34
35	SPARE		20 A	1		0		0	1	20 A		SPARE	36
37	SPARE		20 A	1	0		0		1	20 A		SPARE	38
39	SPARE		20 A	1		0		0	1	20 A		SPARE	40
41	SPARE FC-1/2 - RM B-102/4/5/6/7		20 A	1	0		0		1	20 A		SPARE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	0 VA
TOTAL CONNECTED LOAD PHASE B:	0 VA
TOTAL CONNECTED LOAD:	0 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 0 A

NEW 1L1

LOCATION: CORRIDOR C-107
SUPPLY FROM: MP-1
MOUNTING: Recessed
ENCLOSURE: Type 1
A.I.C. RATING: 22000
Notes:

VOLTS: 120/208 Single
PHASES: 1
MAINS TYPE: MCB
MAIN RATING: 100A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	2
3	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	4
5	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	6
7	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	8
9	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	10
11	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	12
13	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	14
15	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	16
17	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	18
19	SPARE		20 A	1		0		0	1	20 A		SPARE	20
21	SPARE		20 A	1	0		0		1	20 A		SPARE	22
23	SPARE		20 A	1		0		1400	1	20 A		REC - RM C-104/105/106	24
25	SPARE		20 A	1	0		600		1	20 A		REC - RM C-103	26
27	UV-5 - RM C-103		20 A	2		1110		0	1	20 A		SPARE	28
29					1110		0		1	20 A		SPARE	30
31	UV-5 - RM C-104		20 A	2		1110		0	1	20 A		SPARE	32
33					1110		0		1	20 A		SPARE	34
35	UV-5 - RM C-105		20 A	2		1110		0	1	20 A		SPARE	36
37					1110		0		1	20 A		SPARE	38
39	UV-5 - RM C-106		20 A	2		1110		0	1	20 A		SPARE	40
41					1110		0		1	20 A		SPARE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	5040 VA
TOTAL CONNECTED LOAD PHASE B:	5840 VA
TOTAL CONNECTED LOAD:	10880 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 52 A

NEW FA

LOCATION: CORRIDOR B-120
SUPPLY FROM: MP-1
MOUNTING: RECESSED
ENCLOSURE: Type 1
A.I.C. RATING: 22000
Notes:

VOLTS: 120/208 Single
PHASES: 1
MAINS TYPE: MCB
MAIN RATING: 225A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	2
3	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	4
5	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	6
7	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	8
9	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	10
11	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	12
13	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	14
15	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	16
17	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	18
19	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	20
21	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	22
23	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	24
25	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	26
27	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	28
29	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	30
31	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	32
33	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	34
35	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	36
37	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	38
39	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	40
41	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	42
43	REC - RM B-113		20 A	1		0		800	1	20 A		REC - RM B-115	44
45	REC - RM B-114		20 A	1	0		1400		1	20 A		REC - RM B-116	46
47	SPARE		20 A	1		0		1400	1	20 A		REC - RM B-117	48
49	SPARE		20 A	1	0		0		1	20 A		SPARE	50
51	UV-3 - RM B-113		20 A	2		585		0	1	20 A		SPARE	52
53					585		0		1	20 A		SPARE	54
55	UV-4 - RM B-114		20 A	2		1110		0	1	20 A		SPARE	56
57					1110		0		1	20 A		SPARE	58
59	UV-4 - RM B-115		20 A	2		1110		0	1	20 A		SPARE	60
61					1110		0		1	20 A		SPARE	62
63	UV-4 - RM B-116		20 A	2		1110		0	1	20 A		SPARE	64
65					1110		0		1	20 A		SPARE	66
67	UV-7 - RM B-117		20 A	2		1110		0	1	20 A		SPARE	68
69					1110		0		1	20 A		SPARE	70
71	UV-6 - RM B-118		20 A	2		1110		0	1	20 A		SPARE	72
73					1110		0		1	20 A		SPARE	74
75	FC-1 - RM B-119		20 A	1		228		0	1	20 A		SPARE	76
77	SPACE		--	1	--		--		1	--		SPACE	78
79	SPACE		--	1		--		--	1	--		SPACE	80
81	SPACE		--	1	--		--		1	--		SPACE	82
83	SPACE		--	1		--		--	1	--		SPACE	84

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	7535 VA
TOTAL CONNECTED LOAD PHASE B:	8563 VA
TOTAL CONNECTED LOAD:	16098 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 77 A

EX.B

LOCATION:
SUPPLY FROM:
MOUNTING: Recessed
ENCLOSURE: Type 1
A.I.C. RATING:
Notes:

VOLTS: 120/240 Single
PHASES: 1
MAINS TYPE:
MAIN RATING:
BUSSING:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	REC - RM A-111/112		20 A	1	0		885		2	20 A		UV-3 - RM A111	2
3	REC - RM A-113/105		20 A	1		0		885					4
5	REC - RM A-104/103		20 A	1	0		885		2	20 A		UV-3 - RM A112	6
7	UV-3 - RM A-105		20 A	2		885		885					8
9					885		885		2	20 A		UV-3 - RM A113	10
11	UV-3 - RM A-104		20 A	2		885		885					12
13					0		0		1	20 A		EXISTING POWER	14
15	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	16
17	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	18
19	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	20
21	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	22
23	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	24
25	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	26
27	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	28
29	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	30
31	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	32
33	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	34
35	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	36
37	UV-3 - RM A-103		20 A	2	0		0		1	20 A		EXISTING POWER	38
39						0		0	1	20 A		EXISTING POWER	40
41	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	3540 VA
TOTAL CONNECTED LOAD PHASE B:	4425 VA
TOTAL CONNECTED LOAD:	7965 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 33 A

GIBRALTAR DESIGN
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN

MILLIES ENGINEERING GROUP
(219) 934-8400
www.milliesengineeringgroup.com

PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOL CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-152
DATE 05/15/24
COORDINATED BY BK
DRAWN BY BoK
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
ELECTRICAL SCHEDULES

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

AD-01

SHEET
E-502F

6/4/2024 2:21:08 PM
C:\Users\bkovacevic.rminti\Documents\MEG_Frazee Elementary_MEP-R22_bkovacevic.rvt

NEW X-EM/LB

LOCATION: BOILER
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: Type 1
A.I.C. RATING: 22000
Notes:

VOLTS: 120/240 Single
PHASES: 1
MAINS TYPE: MCB
MAIN RATING: 225A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	2
3	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	4
5	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	6
7	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	8
9	SPARE		20 A	1	0		0		1	20 A		SPARE	10
11	SPARE		20 A	1		0		0	1	20 A		SPARE	12
13	SPARE		20 A	1	0		0		1	20 A		SPARE	14
15	SPARE		20 A	1		0		0	1	20 A		SPARE	16
17	SPARE		20 A	1	0		0		1	20 A		SPARE	18
19	SPARE		20 A	1		0		0	1	20 A		SPARE	20
21	SPARE		20 A	1	0		0		1	20 A		SPARE	22
23	SPARE		20 A	1		0		0	1	20 A		SPARE	24
25	SPARE		20 A	1	0		0		1	20 A		SPARE	26
27	SPARE		20 A	1		0		0	1	20 A		SPARE	28
29	SPARE		20 A	1	0		0		1	20 A		SPARE	30
31	SPARE		20 A	1		0		0	1	20 A		SPARE	32
33	SPACE		--	1	0		0		1	--		SPACE	34
35	SPACE		--	1		--		--	1	--		SPACE	36
37	SPACE		--	1	--		--		1	--		SPACE	38
39	SPACE		--	1		--		--	1	--		SPACE	40
41	SPACE		--	1	--		--		1	--		SPACE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	0 VA
TOTAL CONNECTED LOAD PHASE B:	0 VA
TOTAL CONNECTED LOAD:	0 VA
TOTAL CONNECTED AMPS:	0 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

NEW A1G

LOCATION: BOILER A-114
SUPPLY FROM: A1G
MOUNTING: SURFACE
ENCLOSURE: Type 1
A.I.C. RATING: 22000
Notes:

VOLTS: 120/208 Single
PHASES: 1
MAINS TYPE:
MAIN RATING:
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	A	B	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	2
3	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	4
5	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	6
7	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	8
9	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	10
11	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	12
13	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	14
15	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	16
17	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	18
19	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	20
21	EXISTING POWER		20 A	1	0		0		1	20 A		EXISTING POWER	22
23	EXISTING POWER		20 A	1		0		0	1	20 A		EXISTING POWER	24
25	EXISTING POWER		20 A	1	0		0		2	30 A		EXISTING POWER	26
27	EXISTING POWER		20 A	2		0		0					28
29						0		0	1	20 A		EXISTING POWER	30
31	SPARE		20 A	1		0		0	2	60 A		SPARE	32
33	SPARE		20 A	1	0		0						34
35	EXISTING POWER		50 A	2		0		0	2	50 A		EXISTING POWER	36
37					0		0						38
39	EXISTING PANEL KEM		100 A	2		0		0	1	20 A		EXISTING POWER	40
41					0		0		1	20 A		EXISTING POWER	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	0 VA
TOTAL CONNECTED LOAD PHASE B:	0 VA
TOTAL CONNECTED LOAD:	0 VA
TOTAL CONNECTED AMPS:	0 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

GIBRALTAR DESIGN
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN

MILLIES ENGINEERING GROUP
(219) 934-8400
www.milliesengineeringgroup.com

PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA

100%
CONSTRUCTION
DOCUMENTS

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
Email: info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT
23-152
DATE
05/15/24
COORDINATED BY
BK
DRAWN BY
BoK
CHECKED BY
DJ

DAVID G. JANNEY
REGISTERED
NO.
10302590
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

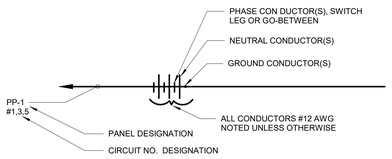
DRAWING
ELECTRICAL SCHEDULES

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

AD-01

SHEET
E-503F

KEY TO ELECTRICAL CIRCUIT WIRING

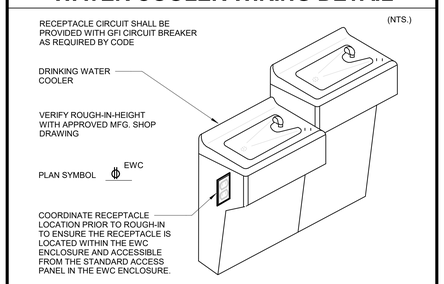


NOTES:

1. ALL WIRING SHALL BE #12 AWG, UNLESS OTHER WISE NOTED.
2. MINIMUM CONDUIT SIZE SH ALL BE 3/4" EXCEPT FOR THREE (3) WIRES OR LESS, OR CONTROL WIRING WITHIN BUILDINGS, WHICH MAY BE 1/2" CONDUIT.
3. 1/2" FLEXSTEEL, GREENFIELD OR SEALITE SHALL BE THE MINIMUM SIZE INSTALLED.

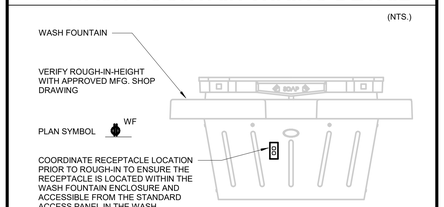
WATER COOLER WIRING DETAIL

(NTS.)



WASH FOUNTAIN WIRING DETAIL

(NTS.)



GENERAL NOTES

A. WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES, AMERICANS WITH DISABILITIES ACT.

B. THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADING ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED UPON COMPLETION OF THE PROJECT TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFCI, HACR, SHUNT TRIP UNITS, ETC.) NOR DO THE SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED. (SUCH AS CB'S FEEDING SURGE PROTECTION UNITS). REFER TO THE REST OF THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.

C. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) TO AVOID CONFLICTS.

D. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS. IN ALL CASES DEVICE MOUNTING HEIGHTS AND LOCATIONS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES FEDERAL STANDARDS.

E. REFER TO THE PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE. IF THE WORK OF OTHER TRADES CAUSES A LOSS OF CONTINUITY OF THE EXISTING ELECTRICAL DISTRIBUTION, GROUNDING SYSTEM OR CIRCUITRY, IT SHALL BE RECONNECTED OR REPAIRED AT NO ADDITIONAL COST.

F. FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS

G. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

H. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.

I. LAYOUT IS DIAGRAMMATIC AND INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.

J. VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED, TO ALLOW FOR PROPER INSTALLATION OF WORK. ADJUST INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.

K. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR REVIEW AS TO WHETHER SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

L. REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED.) WHERE NECESSARY TO PERFORM WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK IS COMPLETED IN THE SPACE, REINSTALL OR PATCH EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.

M. REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACES, FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED, TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

N. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. RELOCATE EXISTING LIGHTING, CONDUIT, EQUIPMENT, ETC., AS NECESSARY FOR NEW INSTALLATIONS.

O. PROVIDE NEW PANEL DIRECTORIES IN EXISTING MODIFIED PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.

P. EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.

Q. PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS.

R. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE AND EXTEND EXISTING CIRCUITRY, ELECTRICAL FEEDERS AND GROUNDING SYSTEMS AS REQUIRED TO MAINTAIN CIRCUIT, FEEDER AND GROUNDING SYSTEM INTEGRITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.

S. WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.

T. VERIFY CEILING STYLES/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.

U. COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN.) VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.

V. PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.

W. SOME CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL ALL OPENINGS AROUND CONDUIT, CABLE, ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.

X. THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED SUPPLY DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFUSERS SHALL BE 10 FEET.

Y. WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.

Z. NO RACEWAYS SHALL BE INSTALLED WITHIN 6" OF STEAM, HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.

AA. PROVIDE PULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.

BB. COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTIFIED PER SPECIFICATIONS. FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED. JUNCTION OR PULL BOXES AND THE LIKE SHALL BE INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

CC. WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS.

DD. IF MORE THAN THREE (3) PHASE (UNGROUNDED) CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.

EE. CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS, ROUTED THROUGH AREAS WITH NO CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.

FF. SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.

GG. VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL, FIRE PROTECTION SYSTEMS AND MEDICAL GAS SERVICES PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED.

HH. PROVIDE NECESSARY ROOFING COMPONENTS COMPATIBLE WITH EXISTING ROOFING SYSTEMS TO PROVIDE A WEATHERTIGHT INSTALLATION FOR THE ROOF PENETRATIONS AND ABANDONED HOLES FROM REMOVED ITEMS. PATCH ROOF OPENINGS FOR REMOVED PIPE PENETRATIONS, WITH RIGID ROOF INSULATION AND ROOF DECK MATERIAL FROM BELOW ROOF TO MATCH EXISTING ADJACENT MATERIALS. PROPERLY STRIP ROOFING MEMBRANE, ETC. AS REQUIRED, TO MATCH EXISTING ROOF SYSTEM WITH PROPER AND COMPATIBLE MATERIALS. PROVIDE A COMPLETE AND PROPER WEATHERTIGHT CONDITION.

II. ROOF SUPPORTS FOR CONDUITS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10, WITH ROLLER GUIDE SUPPORT FOR SINGLE PIPES AND CHANNEL GUIDE SUPPORT FOR MULTIPLE PIPES. SUPPORTS TO HAVE HIGH DENSITY POLYPROPYLENE PLASTIC BASE WITH THREADED RODS FOR ADJUSTABLE HEIGHT ROLLER. SUPPORTS ARE TO SIT ON TOP OF ROOFING MEMBRANE. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION AND TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY OF THE EXISTING OR NEW ROOF SYSTEM. WHERE CONDUITS AND WIRING ARE RUN IN EXTERIOR LOCATIONS OR EXPOSED TO SUNLIGHT, CONDUCTORS SHALL BE PROPERLY UPSIZED PER NEC 310.

JJ. WIRING DEVICES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.

KK. UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.

LL. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER CONDUITS (NOT LIGHTING). ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.

MM. PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED BACKDRAFT DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 VOLT POWER CIRCUIT SO AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 VOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.

NN. AT NEW FIRE OR SMOKE/FIRE DAMPER LOCATIONS, WIRE EACH SMOKE/FIRE DAMPER TO NEAREST EMERGENCY PANEL, TO LOCAL ACTIVATION SMOKE DETECTORS ON EITHER SIDE OF THE DAMPER (WITHIN 3'-0") AND ALSO WIRE THE SAME TO THE FIRE ALARM CONTROL PANEL AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE DUCTS PASS THROUGH SMOKE OR FIRE BARRIERS.

OO. MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. PROVIDE ADDITIONAL PARTS, ACCESSORIES AND CARDS AS REQUIRED TO COMPLETE THE WORK. FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR A COMPLETE AND OPERATING INSTALLATION. FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM POWER SUPPLY AND BATTERIES OF THE SYSTEM AND SHALL NOT BE CONNECTED TO NORMAL POWER. QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.

PP. CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD, PRIOR TO ROUGH-IN. SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.

QQ. THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED, COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 72.

RR. REWORK EXISTING ELECTRICAL FEEDERS, CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL COMPONENTS REQUIRED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT, WIRING AND SPLICE BOXES TO MAINTAIN CONTINUITY.

SS. SINGLE POLE CIRCUITS SHALL HAVE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS (NON-NETWORKED). WHICH (PER CODE) ARE CONSIDERED CURRENT CARRYING CONDUCTORS. THEREFORE, IF MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310. AS SUCH, MULTIPLE BRANCH CIRCUIT HOME RUNS SHALL, AT A MINIMUM, UTILIZE #10 AWG CONDUCTORS TO COMPLY WITH REQUIREMENTS HEREIN. COORDINATE REQUIREMENTS IN FIELD WITH SPECIFIC HOME RUN CONFIGURATION AND NEC REQUIREMENTS.

TT. CONTRACTOR SHALL OBTAIN AVAILABLE FAULT CURRENT, UTILITY TRANSFORMER SIZE AND IMPEDANCE WITHIN 14 DAYS OF CONTRACT AWARD. ELECTRICAL PANEL AND GEAR SHOP DRAWINGS SHALL BE SUBMITTED ALONG WITH COORDINATION/ARC FLASH STUDY WITH 30 DAYS OF CONTRACT AWARD FOR REVIEW. ALL GEAR SHALL BE RATED TO PROPERLY WITHSTAND AVAILABLE FAULT CURRENT.

UU. PRIOR TO THE START OF WORK AND THE ORDERING OF EQUIPMENT, CONTRACTOR SHALL CAREFULLY MEASURE AND VERIFY THE VOLTAGE, PHASE AND WIRING CONFIGURATION OF EXISTING PANELS AND EXISTING GEAR THAT ARE PART OF WORK AND SHALL CAREFULLY VERIFY THAT ALL ELECTRICAL CONNECTIONS, GEAR AND EQUIPMENT HAVE BEEN CAREFULLY COORDINATED TO ELIMINATE CONFLICTS. COORDINATE WITH OTHER TRADES AS REQUIRED TO ELIMINATE ELECTRICAL CONFLICTS PRIOR TO START OF WORK.

VV. CAREFULLY VERIFY COLOR TEMPERATURES OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

INTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
AA		2'X4' LED FLAT PANEL FIXTURE	LITHONIA #CPX-2x4-3000LM-80CRI-40K-SWL-MIN10 OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 3000 LM	RECESSED LAY-IN -	- - - -
AA1		2'X4' LED FLAT PANEL FIXTURE	LITHONIA #CPX-2x4-4000LM-80CRI-40K-SWL-MIN10 OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 4000 LM	RECESSED LAY-IN -	- - - -
AA2		2'X4' LED FLAT PANEL FIXTURE	LITHONIA #CPX-2x4-6000LM-80CRI-40K-SWL-MIN10 OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 6000 LM	RECESSED LAY-IN -	- - - -
AB		2'X2' LED FLAT PANEL FIXTURE	LITHONIA #CPX-2x2-1500LM-80CRI-40K-SWL-MIN10 OR APPROVED EQUAL AD-01	120/277 VOLT 0-10V DIM - - AD-01	LED 4000 K MIN 1500 LM	RECESSED LAY-IN -	- - - -
CA		4" LED DOWNLIGHT FIXTURE	LITHONIA #LDN4-ALO2-40K-LO4-WR-MVOLT OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 4000 LM	RECESSED LAY-IN -	- - - -
PA		4' LED STRIP FIXTURE	LITHONIA #CLX-L48-4000LM-SEF-XX-L/LENS-XX-MVOLT-80CRI OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 4000 LM	RECESSED LAY-IN -	- - - -
PW		4' LED SURFACE WRAP FIXTURE	LITHONIA #BLWP4-40L-ADP-MVOLT-EZ1-LP40 OR APPROVED EQUAL AD-01	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 4000 LM	SURFACE MOUNT - AD-01	
PV		4' LED SURFACE VAPORTITE FIXTURE	LITHONIA #FEM-8000LM-XX-XX-MVOLT-GZ10-35K-80CRI OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 8000 LM	SURFACE MOUNT -	
WA		3' LED SURFACE MOUNT FIXTURE	LITHONIA #S4WID-LLP-3FT-MSL3-90CRI-40K-6000LMF-I80CRI-40K-1600LMF-XX-SCT-MIN102-FLL-DC-MVOLT-WHTT-1E10WLCP-ZT OR APPROVED EQUAL	120/277 VOLT 0-10V DIM - -	LED 4000 K MIN 4000 LM	WALL MOUNT -	
EM		FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER	FIXTURES LESS THAN 10000 LM: BODINE FACTORY INSTALLED BATTERY OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)	120/277 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR

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PROJECT:

FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOLS CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

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PROJECT
23-152
DATE
05/15/24
COORDINATED BY
BK
DRAWN BY
BoK
CHECKED BY
DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/24	ADDENDUM 1

DRAWING
ELECTRICAL DETAILS & DIAGRAMS

PROJECT
FRAZEE ELEMENTARY SCHOOL - RENOVATIONS AND RELATED WORK

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ELECTRICAL ONE-LINE SCHEMATIC RISER DIAGRAM

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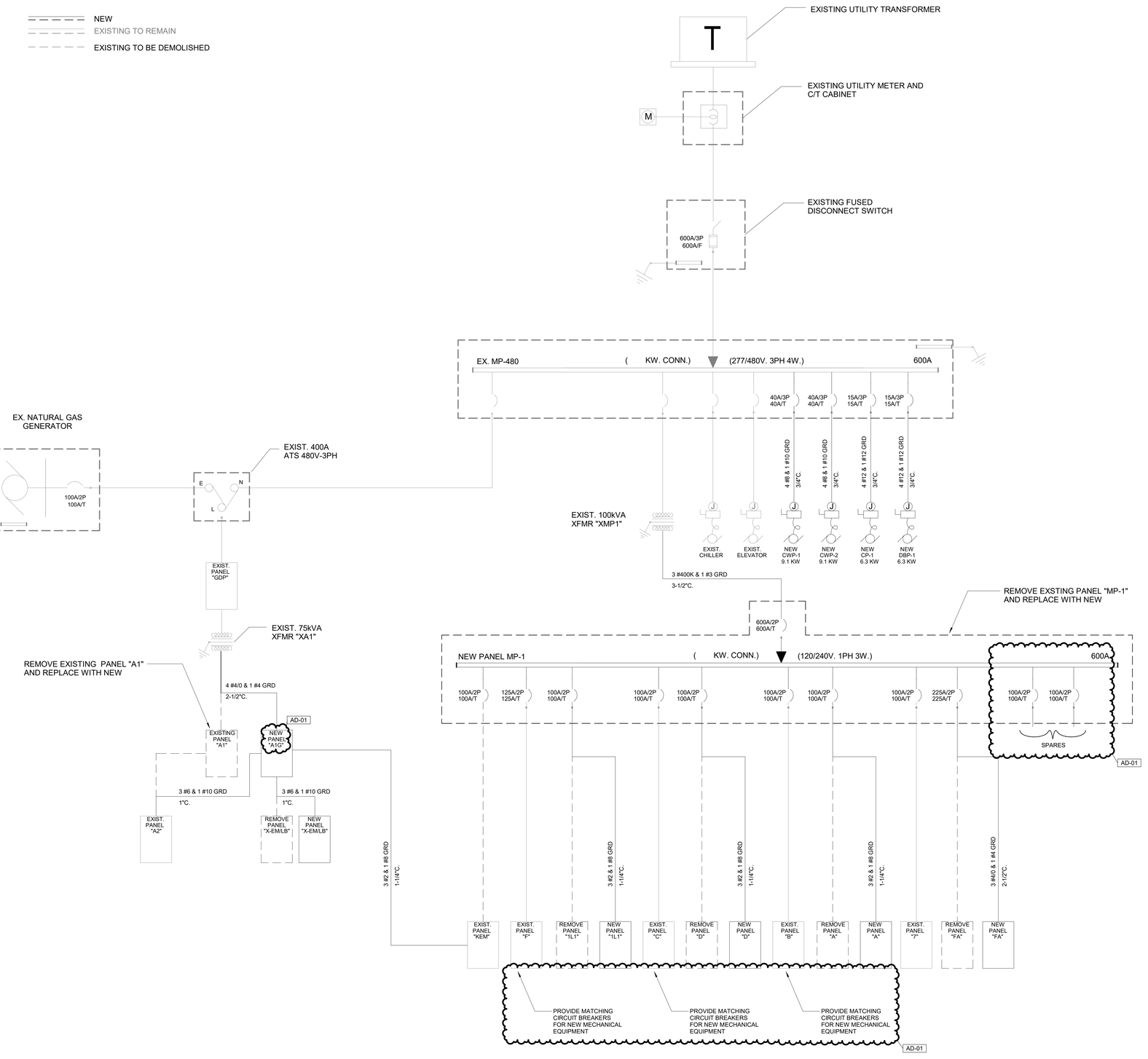

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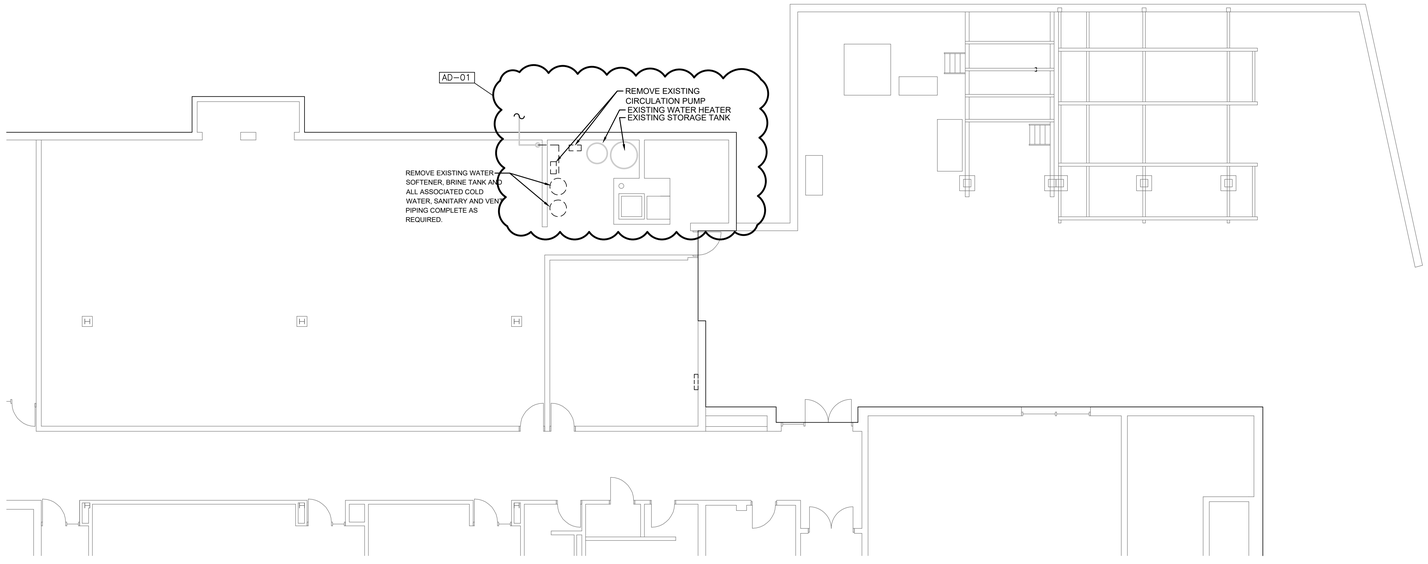

GROUND FLOOR PLUMBING DEMOLITION PLAN

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

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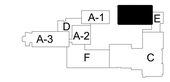
FOR:

FAYETTE COUNTY SCHOOL CORPORATION

CONNERSVILLE, INDIANA



KEY PLAN

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GROUND FLOOR PLUMBING DEMOLITION PLAN

PROJECT
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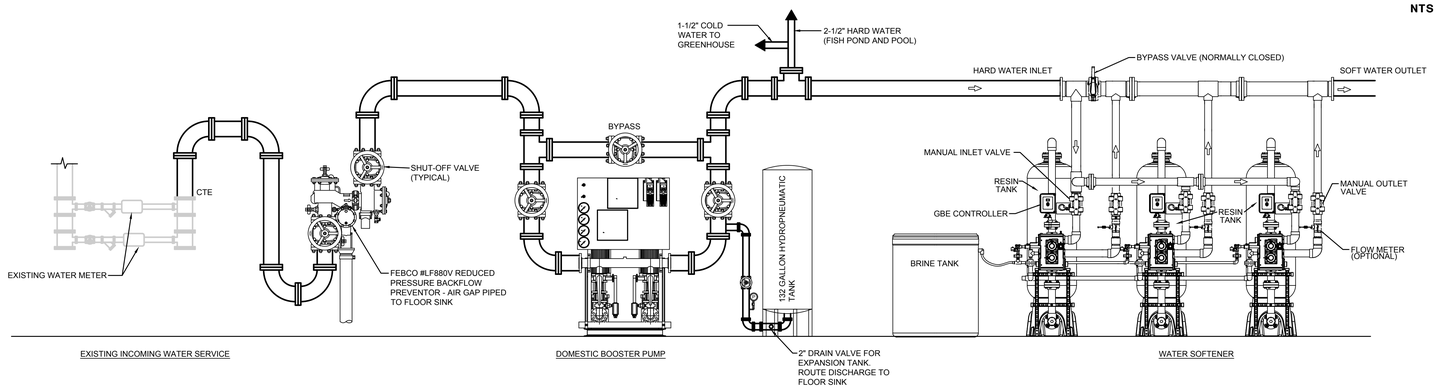
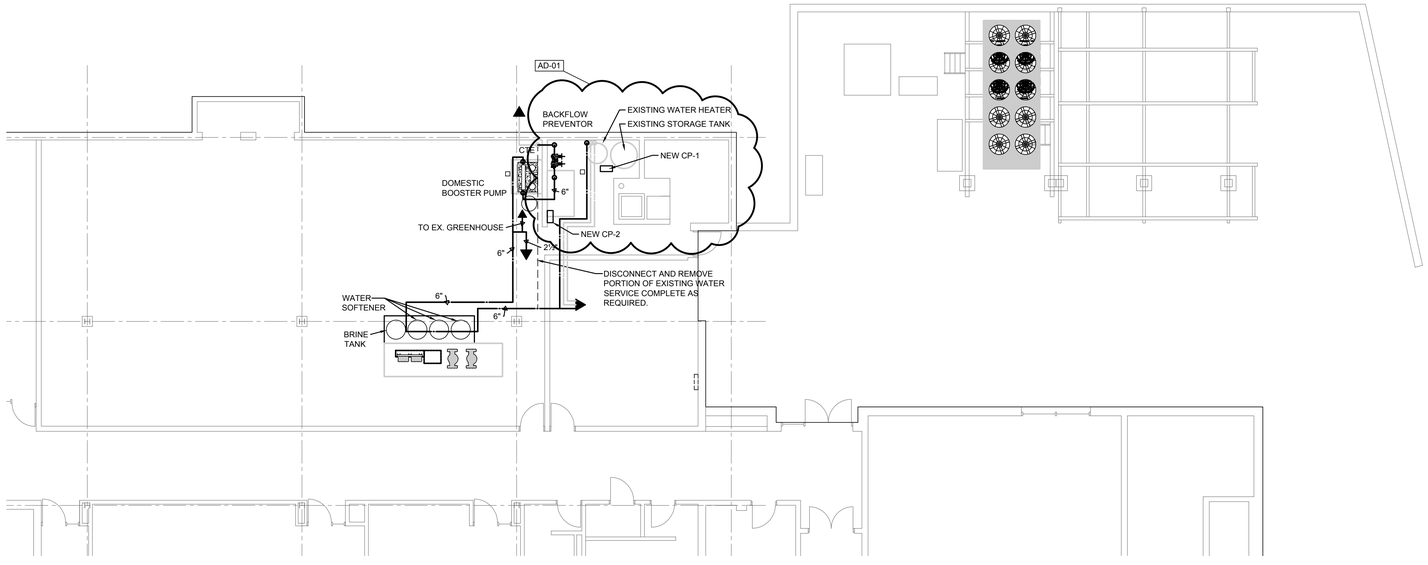
PD201C

WATER SERVICE DIAGRAM

NTS





GROUND FLOOR PLUMBING PLAN

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

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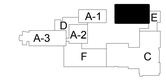

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GROUND FLOOR PLUMBING PLAN

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PLUMBING EQUIPMENT SCHEDULE

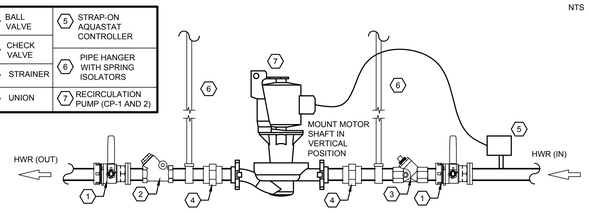
AD-01

TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)	ELECTRICAL DATA							
						HP	MCA	FLA	AMPS	MOCP	VOLT	PH	HZ.
DBP-1	DOMESTIC BOOSTER PUMP	365 GPM @ 100 PSI DISCHARGE W/ SUCTION @ 15 PSI	HYFAB EMVP-2-33030-460	-	W/ 132 GAL. HYDROPNEUMATIC TANK, 4" SUCTION/ 4" DISCHARGE	(2) 15	-	-	-	-	480	3	60
CP-1	DOMESTIC HW RECIRCULATING PUMP	SERVING STORAGE TANK CIRCULATION PUMP/BOILER ROOM	BELL AND GOSSETT NBF-12F-LW	-	PUMP SHALL BE PROVIDED WITH LINE VOLTAGE AQUASTAT AND BE ALL-BRONZE CONSTRUCTION	1/40	-	-	-	-	115	1	60
CP-2	DOMESTIC HW RECIRCULATING PUMP	SERVING 120° DOMESTIC HW/BOILER ROOM	BELL AND GOSSETT NBF-38	-	PUMP SHALL BE PROVIDED WITH LINE VOLTAGE AQUASTAT AND BE ALL-BRONZE CONSTRUCTION	1/6	-	-	-	-	115	1	60
DWS-1,2,3	DOMESTIC WATER SOFTENER	CONTINUOUS FLOW 152 GPM, PEAK FLOW 210 GPM	CULLIGAN FIBERGLASS CSM WATER SOFTENER SYSTEM - 300-3F	-	REGENERATION BY WATER USAGE. FULLY AUTOMATIC OPERATION, DATA BASED UPON USAGE OF EACH UNIT	-	-	-	-	-	120	1	-

HWR CIRCULATION PUMP DETAIL

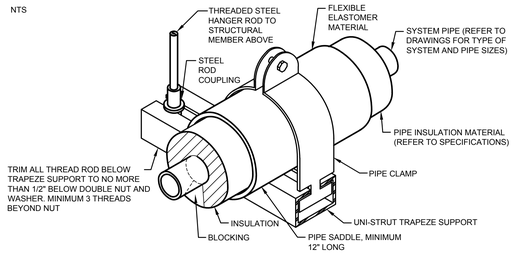
NTS

1. BALL VALVE
2. CHECK VALVE
3. STRAINER
4. UNION
5. STRAP-ON AQUASTAT CONTROLLER
6. PIPE HANGER WITH SPRING ISOLATORS
7. RECIRCULATION PUMP (CP-1 AND 2)



TRAPEZE PIPE HANGER DETAIL

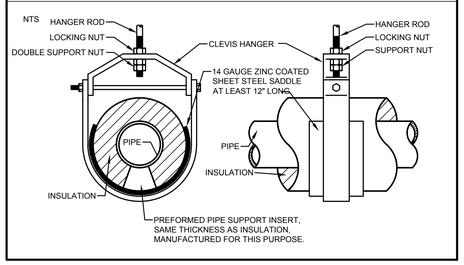
NTS



NOTES:
1. SIMILAR - STEEL ANGLE, BEAM OR OTHER SUPPORT.
2. MINIMUM TWO SUPPORTS REQUIRED.
3. HORIZONTAL SPACING PER SHORTEST SPAN BASED ON PIPE SIZE AND TYPE.
4. SIMILAR UNINSULATED PIPE OR ELECTRICAL CONDUIT, NO PIPE SADDLE REQUIRED.

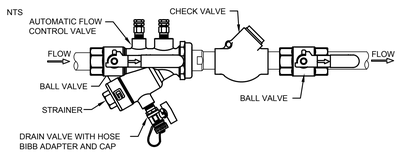
PIPE HANGER DETAIL

NTS



POTABLE HWR BALANCING VALVE STATION DETAIL

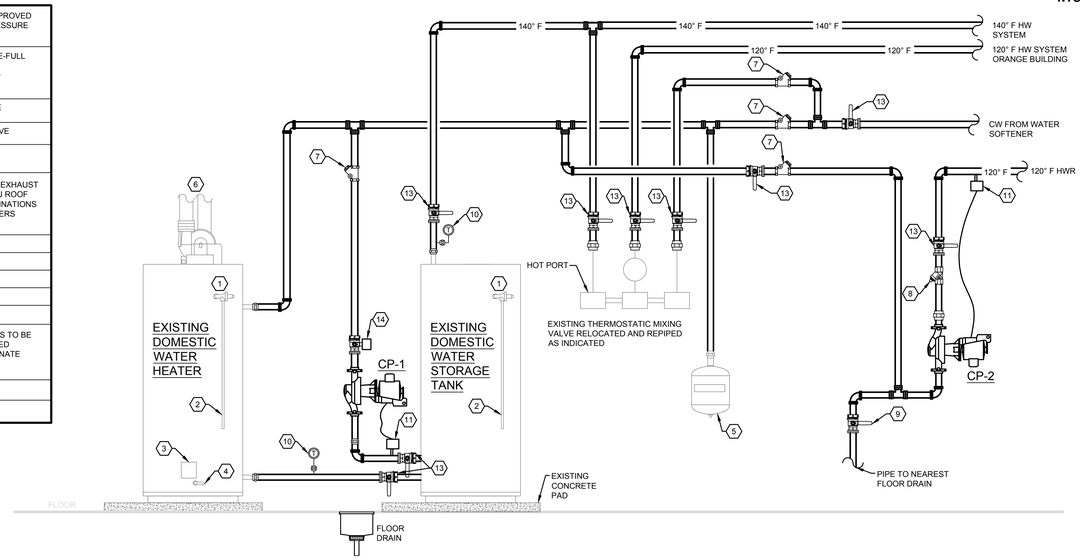
NTS



WATER HEATER DIAGRAM

NTS

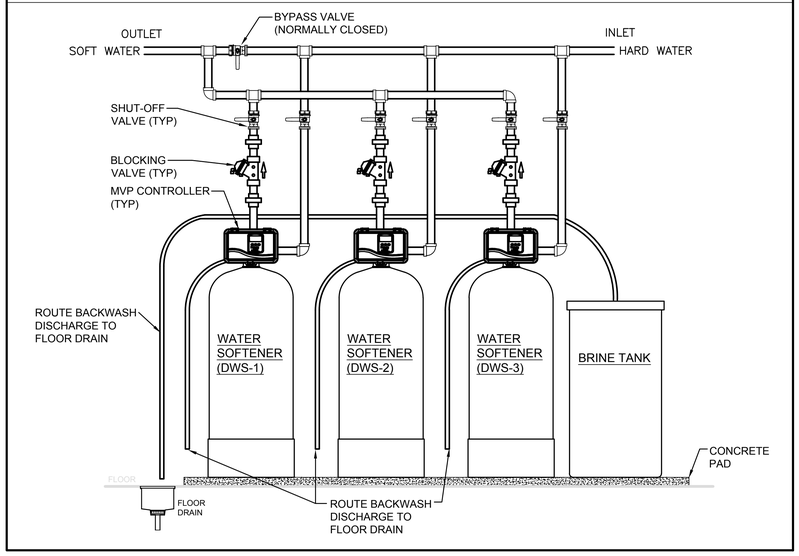
1. EXISTING A.S.M.E. APPROVED TEMPERATURE & PRESSURE RELIEF VALVE
2. EXISTING RELIEF PIPE-FULL SIZE OF DISCHARGE OPENING - ROUTE TO FLOOR DRAIN
3. EXISTING GAS VALVE
4. EXISTING DRAIN VALVE
5. EXISTING THERMAL EXPANSION TANK
6. EXISTING INTAKE AND EXHAUST PIPES BY P.C. UP THRU ROOF CURB. PROVIDE TERMINATIONS AS PER MANUFACTURERS RECOMMENDATIONS
7. CHECK VALVE
8. STRAINER
9. ¾" DRAIN VALVE
10. THERMOMETER
11. AQUASTAT
12. RECIRCULATION PUMPS TO BE ACTIVATED IN OCCUPIED HOURS ONLY- COORDINATE WITH TEMPERATURE CONTROLS
13. BALL VALVE
14. BALANCING COCK



GENERAL PLUMBING NOTES

1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL NEW WORK SHOWN ON THESE SHEETS AND IN THE SPECIFICATIONS, UNLESS OTHERWISE NOTED.
2. PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID AND MODIFY WORK AS REQUIRED FOR ANY VARIATIONS OR DEVIATIONS FROM THOSE SHOWN ON THESE SHEETS.
3. ALL WALLS, LIGHTS, EQUIPMENT, DUCTWORK, PIPING, ETC. SHOWN WITH THIN DOTTED OR SOLID LINES IS EXISTING TO REMAIN CONDITIONS AND SHOULD BE USED FOR REFERENCE ONLY, AND MAY INDICATE NONEXISTENT OR INACCURATE CONDITIONS.
4. ALL EQUIPMENT, DUCTWORK AND PIPING SHOWN WITH THICK DASHED LINES IS EXISTING TO BE REMOVED OR RELOCATED.
5. ALL EQUIPMENT, DUCTWORK AND PIPING SHOWN WITH THICK SOLID LINES IS NEW WORK.
6. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SHEETS TO COORDINATE ALL WORK.
7. ALL PLUMBING PIPING LOCATED ABOVE CEILINGS SHALL BE PLACED TO AVOID DUCTWORK, LIGHT FIXTURES, JOISTS, BEAMS, ETC.
8. PROVIDE CEILING ACCESS PANELS FOR ACCESS TO SHUT-OFF VALVES, CONTROL VALVES, DRAIN VALVES, EQUIPMENT, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS (INCLUDES ALL EXISTING ITEMS REQUIRING ACCESS WHERE NEW NON-ACCESSIBLE CEILINGS OCCUR). COORDINATE ALL ACCESS PANELS WITH ARCHITECT.
9. PLUMBING CONTRACTOR SHALL CORE DRILL HOLES THROUGH FLOORS, WALLS, DECKS, ETC. WHERE PASSAGE IS NOT AVAILABLE TO INSTALL NEW PIPING. PROVIDE PIPE SLEEVES AND PROPERLY SEAL ALL PIPE PENETRATIONS AS REQUIRED. REFER TO SPECIFICATIONS.
10. ALL DOMESTIC WATER PIPING HEADERS LOCATED IN PIPE CHASES SHALL BE SAME SIZE AS PIPE MAIN DROPS INTO CHASES, UNLESS OTHERWISE NOTED.
11. ALL DOMESTIC, BRANCH PIPING SHOWN WITHOUT SIZE INDICATED, SHALL BE A MINIMUM OF 3/4".
12. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 20), REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER PIPING, AND WHERE FLUSH VALVES AND ANY OTHER QUICK CLOSING VALVES ARE USED.
13. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL VALVES IN ALL PIPING AS REQUIRED TO FACILITATE OPERATION OF VARIOUS SYSTEMS DURING CONSTRUCTION.

WATER SOFTENER DIAGRAM



GIBRALTAR DESIGN
ARCHITECTURE ENGINEERING INTERIOR DESIGN

MILLIES ENGINEERING GROUP
(219) 924-8400
www.milliesengineeringgroup.com

PROJECT:

CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOL CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

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PROJECT 23-154
DATE 05/15/24
COORDINATED BY EH
DRAWN BY MDG
CHECKED BY DJ

DAVID G. JANKE REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-01	06/05/2024	ADDENDUM 1

DRAWING
PLUMBING SYMBOLS, SCHEDULES AND GENERAL NOTES

PROJECT
CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

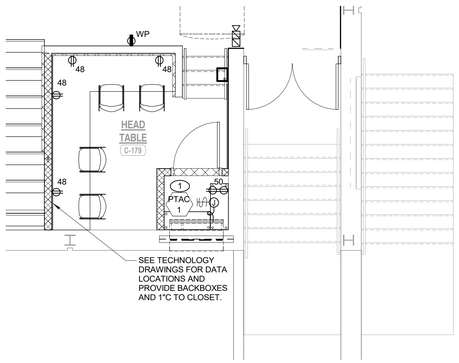
SHEET
P-501C

SHEET NOTES

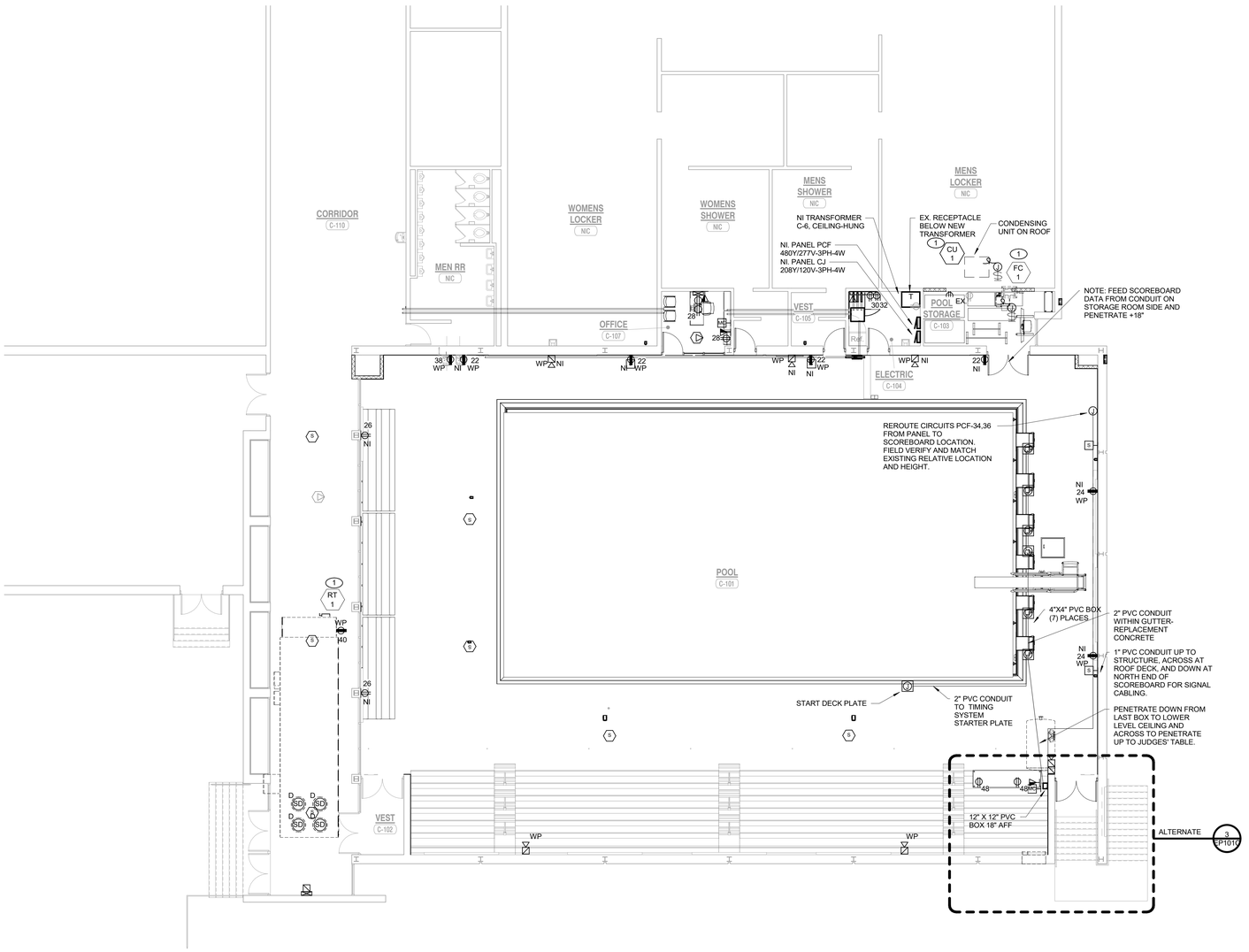
1. REFER TO MECHANICAL CONNECTIONS SCHEDULE FOR FURTHER CIRCUITING AND WIRING INFORMATION.
2. REFER TO POOL CONNECTION SCHEDULE AND POOL DRAWINGS FOR FURTHER CIRCUITING AND WIRING INFORMATION. CONNECT 480V TO PCF AND 120V TO CJ.

GENERAL NOTES

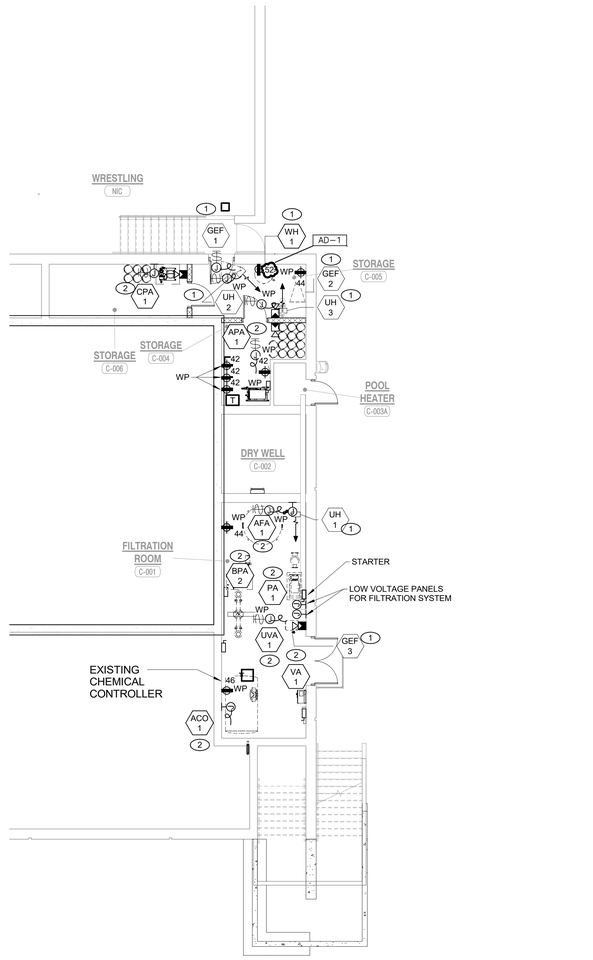
1. POOL EQUIPMENT POWER AND RACEWAY SHALL BE PROVIDED PER POOL EQUIP PLANS.
2. BOND AND GROUND ALL POOL EQUIPMENT AND EMBEDDED STEEL DECK EQUIPMENT IN CLUDING, BUT NOT LIMITED TO POOL REINFORCING STEEL , POOL MECHANICAL EQUIPMENT, ACTIVITIES, PERIMETER SURFACES, EMBEDDED METALLIC ITEMS, DECK EQUIPMENT, ROPE CUPS, DIVING TOWER, PUMPS, ETC. IN ACCORDANCE WITH NEC ARTICLE 680, POOL CODE, LOCAL CODES AND ALL OTHER REGULATIONS. REFER TO STRUCTURAL DRAWINGS AND POOL EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
3. ALL LOW VOLTAGE CABLING IN POOL AREAS TO BE PRVOIDED IN A COMPLETE CONDUIT RACEWAY SYSTEM. SEE TECHNOLOGY SHEETS FOR ADDITIONAL LOCATIONS, DETAILS, BOXES, ETC. THAT ARE PART OF THIS CONTRACT.
4. ALL DEVICES SHALL BE CIRCUITED TO PANEL CJ UNLESS OTHERWISE NOTED.



3 EP101C HEAD TABLE ALTERNATE ENLARGED POWER PLAN
1/4" = 1'-0"



2 EP101C FIRST FLOOR PLAN - ELECTRICAL POWER
1/8" = 1'-0"



1 EP101C LOWER LEVEL FLOOR PLAN - ELECTRICAL POWER
1/8" = 1'-0"

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CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

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CONNERSVILLE, INDIANA

KEY PLAN NORTH

100% CONSTRUCTION DOCUMENTS

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PROJECT 23-154
DATE 05/15/24
COORDINATED BY BK
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DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

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DRAWING
LOWER LEVEL FLOOR PLAN - ELECTRICAL POWER

PROJECT
CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

SHEET
EP101C

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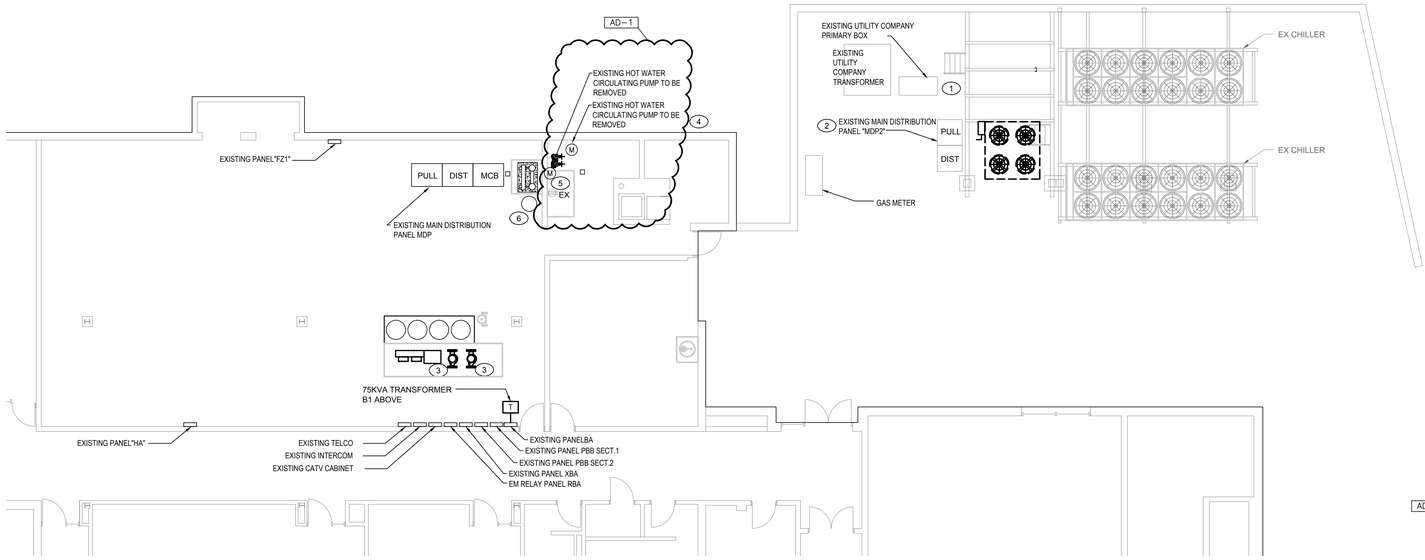
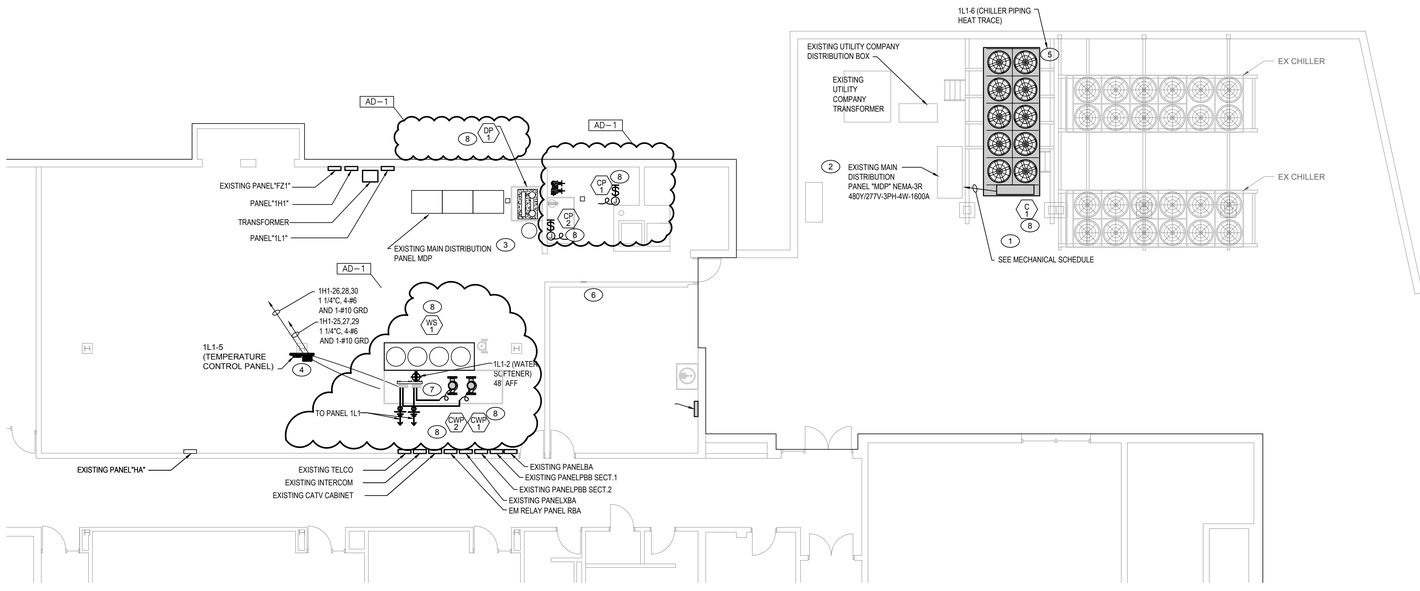


GROUND FLOOR ELECTRICAL DEMOLITION PLAN

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



GROUND FLOOR ELECTRICAL POWER PLAN

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

DEMOLITION GENERAL NOTES

1. SEE E502 SHEET FOR ELECTRICAL POWER DISTRIBUTION DIAGRAMS, DETAILS AND SCHEDULES.

DEMOLITION SHEET NOTES

1. DISCONNECT EXISTING ELECTRICAL SERVICE TO THE EXISTING CHILLER BEING REMOVED AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
2. MODIFY EXISTING EXTERIOR MAIN DISTRIBUTION PANELBOARD/SWITCHBOARD THAT SERVES THE CHILLERS AS SHOWN ON THE EPOWER DISTRIBUTION DIAGRAM ON SHEET E-502.
3. DISCONNECT EXISTING ELECTRICAL SERVICE TO THE EXISTING CIRCULATING PUMPS BEING REMOVED AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
4. DISCONNECT EXISTING ELECTRICAL SERVICE TO THE EXISTING HOT WATER CIRCULATING PUMP BEING REMOVED. REMOVE ASSOCIATED CONTROLLER/DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO THE SOURCE, UNLESS OTHERWISE NOTED.
5. REMOVE EXISTING RECEPTACLE SERVING THE WATER SOFTENER BEING REMOVED AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO THE SOURCE IN SUCH A MANNER AS TO KEEP ALL OTHER DEVICES/EQUIPMENT. THAT REMAIN, IN SERVICE.
6. MODIFY EXISTING MAIN DISTRIBUTION PANEL "MDP1" AS SHOWN ON THE POWER DISTRIBUTION DIAGRAM ON SHEET E-502.

POWER PLAN GENERAL NOTES

1. SEE E502 SHEET FOR ELECTRICAL POWER DISTRIBUTION DIAGRAMS, DETAILS AND SCHEDULES.

POWER PLAN SHEET NOTES

1. PROVIDE NEW FEEDER TO NEW CHILLER BEING PROVIDED AS SHOWN, REFER TO MECHANICAL CONNECTIONS SCHEDULE FOR MORE INFORMATION REGARDING CIRCUITING AND WIRING.
2. MODIFY EXISTING EXTERIOR MAIN DISTRIBUTION PANELBOARD/SWITCHBOARD "MDP2" THAT SERVES THE CHILLERS AS SHOWN ON THE POWER DISTRIBUTION DIAGRAM ON SHEET E-502.
3. MODIFY EXISTING MAIN DISTRIBUTION PANEL "MDP1" AS SHOWN ON THE POWER DISTRIBUTION DIAGRAM ON SHEET E-502.
4. VARIABLE FREQUENCY DRIVE CONTROLLER BY DIVISION 23.
5. CONNECT HEAT TRACE FOR THE CHILLER PIPING TO CIRCUIT FZ1-28 AS SHOWN.
6. PROVIDE MANUAL MOTOR STARTERS WITH THERMAL OVERLOADS AND PILOTS LIGHTS AS SHOWN FOR HOT WATER RETICULATING PUMPS.
7. PROVIDE GFI TYPE RECEPTACLE FOR WATER SOFTENERS. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH WATER SOFTENER INSTALLER AND ARCHITECT PRIOR TO ROUGHING-IN.
8. REFER TO MECHANICAL CONNECTIONS SCHEDULE FOR FURTHER CIRCUITING AND WIRING INFORMATION.

AD – 1

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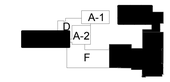

KEY PLAN

NORTH

100% CONSTRUCTION DOCUMENTS

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PROJECT
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BK
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DRAWING
GROUND FLOOR ELECTRICAL PLANS

PROJECT
CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

SHEET
EP111C

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

AD—1

TAG	DESCRIPTION	LOAD WATTS	LOAD HP	LOAD MCA	LOAD FLA	LOAD AMPS	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER CABLE	FEEDER C	STARTER BY: MC.	STARTER BY: EC.	LOCATION	REMARKS
C-1	GRADE MOUNTED AIR-COOLED CHILLER	264898	-	319	-	-	350	480	3	MDP2	4	350A/3P	4 #500KCMIL & 1 #3 GRD	1/2"	X	-	-	-
RT-1	ROOF MOUNTED POOL HVAC UNIT - DX COOLING / GAS HEATING	100146	-	120.6	-	-	125	480	3	EX	EX	200A/3P	EX	2"	X	-	-	REUSE EXISTING CONNECTIONS FROM PREVIOUS ROOFTOP UNIT
RT-1A	ROOF MOUNTED POOL HVAC UNIT - DX COOLING / GAS HEATING - ALTERNATE	111274	-	134	-	-	150	480	3	EX	EX	200A/3P	EX	2"	X	-	-	REUSE EXISTING CONNECTIONS FROM PREVIOUS ROOFTOP UNIT
FC-1	SUSPENDED HORIZONTAL FAN COIL UNIT - DX COOLING / HOT WATER HEATING	318	-	2.65	-	-	15	120	1	CJ	55	20A/2P	2 #12 & 1#12 GRD	3/4"	X	-	-	-
CU-1	ROOF MOUNTED AIR-COOLED CONDENSING UNIT	2454.4	-	11.8	-	-	20	208	1	CJ	37-39	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
PTAC-1	ELECTRIC HEAT/DX COOLED PTAC - ALTERNATE	1040	-	-	-	5	-	208	1	CJ	33-35	20A/2P	3 #12 & 1 #12 GRD	3/4"	X	-	-	-
UH-1	SUSPENDED HOT WATER UNIT HEATER	216	-	1.8	-	-	15	120	1	CJ	21	20A/1P	2 #12 & 1#12 GRD	3/4"	X	-	-	-
UH-2	SUSPENDED HOT WATER UNIT HEATER	216	-	1.8	-	-	15	120	1	CJ	23	20A/1P	2 #12 & 1#12 GRD	3/4"	X	-	-	-
UH-3	SUSPENDED HOT WATER UNIT HEATER	216	-	1.8	-	-	15	120	1	CJ	25	20A/1P	2 #12 & 1#12 GRD	3/4"	X	-	-	-
GEF-1	INLINE GENERAL EXHAUST FAN (STORAGE C-006)	696	0.25	-	-	-	-	120	1	CJ	27	20A/1P	2 #12 & 1#12 GRD	3/4"	-	X	-	-
GEF-2	INLINE GENERAL EXHAUST FAN (STORAGE C-004)	696	1/4	-	-	-	-	120	1	CJ	29	20A/1P	2 #12 & 1#12 GRD	3/4"	-	X	-	-
GEF-3	INLINE GENERAL EXHAUST FAN (FILTRATION ROOM C-001)	199.2	1/15	-	-	-	-	120	1	CJ	31	20A/1P	2 #12 & 1#12 GRD	3/4"	-	X	-	-
WH-1	WATER HEATER	16	-	-	-	-	-	120	1	CJ	52	20A/1P	2 #12 & 1#12 GRD	3/4"	X	-	-	-
DBP-1	DOMESTIC BOOSTER PUMP	17438.4	(2) 15	-	-	-	-	480	3	1H1	2-4-6	60A/3P	4 #4 & 1 #10 GRD	1"	-	-	-	-
CP-1	DOMESTIC HW RECIRCULATING PUMP	-	1/40	-	-	-	-	115	1	1L1	1	20A/1P	2 #12 & 1#12 GRD	3/4"	-	-	-	-
CP-2	DOMESTIC HW RECIRCULATING PUMP	-	1/6	-	-	-	-	115	1	1L1	3	20A/1P	2 #12 & 1#12 GRD	3/4"	-	-	-	-
DWS-1,2,3	DOMESTIC WATER SOFTENER	-	-	-	-	-	-	120	1	1L1	2	20A/1P	2 #12 & 1#12 GRD	3/4"	-	-	-	-

AD—1

CJ

LOCATION: ELECTRIC C104 **VOLTS:** 120/208 Wye
SUPPLY FROM: 45KVA... **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MCB 125A
ENCLOSURE: NEMA 1 **MAIN RATING:** 225A
A.I.C. RATING: 10K **BUSSING:** COPPER
Notes:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	EX CIRCUITS		20 A	1	500			500			1	20 A		EX CIRCUITS	2
3	EX CIRCUITS		20 A	1		500			500		1	20 A		EX CIRCUITS	4
5	EX CIRCUITS		20 A	1			500			500	1	20 A		EX CIRCUITS	6
7	EX CIRCUITS		20 A	1	500			500			1	20 A		EX CIRCUITS	8
9	EX CIRCUITS		20 A	1		500			500		1	20 A		EX CIRCUITS	10
11	EX CIRCUITS		20 A	1			500			500	1	20 A		EX CIRCUITS	12
13	EX CIRCUITS		20 A	1	500			500			1	20 A		EX CIRCUITS	14
15	EX CIRCUITS		20 A	1		500			500		1	20 A		EX CIRCUITS	16
17	EX CIRCUITS		20 A	1			500			500	1	20 A		EX CIRCUITS	18
19	EX CIRCUITS		20 A	1	500			500			1	20 A		EX CIRCUITS	20
21	UH-1		20 A	1		216			800		1	20 A		REC POOL	22
23	UH-2		20 A	1			216			400	1	20 A		REC POOL	24
25	UH-3		20 A	1	216			400			1	20 A		REC POOL	26
27	GEF-1		20 A	1		696			400		1	20 A		REC OFFICE 107	28
29	GEF-2		20 A	1			696			200	1	20 A		REC SOUND SYSTEM	30
31	GEF-3		20 A	1	199			200			1	20 A		REC SOUND SYSTEM	32
33	PTAC-1		20 A	2		520			1200		1	20 A		SCOREBOARD	34
35							520			1200	1	20 A		SCOREBOARD	36
37	AC-1		20 A	2	1664			200			1	20 A		REC EWC	38
39						1664			200		1	20 A		REC ROOF TOP	40
41							834			800	1	20 A		REC STORAGE C005	42
43	UVA1		30 A	3	834			400			1	20 A		REC STORAGE C005	44
45						834			1200		1	20 A		EXISTING CHEMICAL CONTROLLER	46
47	CPA1		20 A	1			1800			800	1	20 A		REC HEAD TABLE ALTERNATE	48
49	APA1		20 A	1	1800			400			1	20 A		REC HEAD TABLE ALTERNATE	50
51	AFA1		25 A	1		2400			800		1	20 A		WH-1	52
53	ACO1		20 A	1			1800			0	1	20 A		SPARE	54
55	FC-1		20 A	1	318			--			1	--		SPACE	56
57	SPACE		--	1		--			--		1	--		SPACE	58
59	SPACE		--	1			--			--	1	--		SPACE	60

AD—1

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	10631 VA
TOTAL CONNECTED LOAD PHASE B:	13930 VA
TOTAL CONNECTED LOAD PHASE C:	12266 VA
TOTAL CONNECTED LOAD:	36827 VA
TOTAL CONNECTED AMPS:	102 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

INTERIOR/EXTERIOR LIGHTING LUMINAIRE SCHEDULE

AA		2'X4' LED DIRECT/INDIRECT FIXTURE	LITHONIA #2BLT4-48L-ADP-LP840-X-X METALUX #24ARS-L3C3-UNV OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 4000 K MIN 4800 LM 35W	RECESSED LAY-IN -	- - - -
AB		1'X4' LED DIRECT/INDIRECT FIXTURE	LITHONIA #BLT4-48L-ADP-LP840-X-X OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 4000 K MIN 4800 LM 35W	RECESSED LAY-IN -	- - - -
TA		RAIL MOUNTED INDIRECT NATATORIUM FIXTURE	SPI LIGHTING #LRU12394-169W-40K-NAT OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 4000 K MIN 82293 LM 649W	RAIL MTD 22' AFF	- - - -
TB		4' PENDANT INDIRECT NATATORIUM FIXTURE	LUX DYNAMICS #WAVEP-4-840-U10-WSA4-DEF4	120/277 VOLT 0-10V DIM	LED 4000 K MIN 14310 LM 861W	PENDANT MTD 22' AFF	- - - -
TC		PENDANT INDIRECT NATATORIUM FIXTURE	VISIONAIRE #BHB-6-SW-90L-4K-VOLT @ 20' MTG.HT.(INDIRECT) 18 DEGREE TILT OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 4000 K MIN 9000 LM 625W	PENDANT MTD 22' AFF	- - - -
EA		EXTERIOR WALL MOUNTED FIXTURE	LITHONIA #WST-LED-P2-40K-VF-MVOLT-XX OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 4000 K MIN 3000 LM 25W	WALL MTD - -	- - - -
PA		48" LED LINEAR DIRECT/INDIRECT STRIP FIXTURE	LITHONIA #CLX-L48-4000LM-SEF-MVOLT-GZ1-XX-35K-80CRI OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 3500 K MIN 4000 LM 32 W	SURFACE	- - - -
PB		48" LED LINEAR DIRECT/INDIRECT STRIP FIXTURE	HUBBELL CHALMIT #PR3I/07L/LE OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 3500 K MIN 6690 LM 44 W	PENDANT	- - - -
PC		24" LED LINEAR DIRECT/INDIRECT STRIP FIXTURE	LITHONIA #CLX-L24-4000LM-SEF-MVOLT-GZ1-XX-40K-80CRI OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 4000 K MIN 4000 LM 32 W	SURFACE	- - - -
CA		6" DIAMETER LED SQUARE DOWNLIGHT	CEILEO #CLO-35-80L-25-4K7-UNV-SQ-XX OR APPROVED EQUAL	120/277 VOLT 0-10V DIM	LED 3500 K 3200 LM 26 W	RECESSED	- - -
XA		EXIT SIGN WITH 6" RED LETTERS, POLY CARBONATE BODY, 90 MINUTE NI-CAD BATTERY BACK UP	EXITRONIX #WLTE-W-1-R-EL OR APPROVED EQUAL	MVOLT - -	LED - - -	CEILING/ WALL	-FURNISH WITH ARROWS AS REQ'D BY CODE -COORDINATE FACE QUANTITY WITH PLANS
EM		FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER		120/277 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR -INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS

AD—1

FIXTURE GENERAL NOTES

1. INTERIOR FIXTURES, EXTERIOR FIXTURES AND POLE FINISHES AND COLORS TO BE SELECTED BY ARCHITECT. THE ARCHITECT MAY, AT THEIR DISCRETION, CHOOSE A CUSTOM COLOR AT NO ADDITIONAL CHARGE.
2. PENDANT FIXTURES SPECIFIED ON THIS PROJECT SHALL BE CAREFULLY COORDINATED WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER AS EACH PENDANT FIXTURE IS A CUSTOM MANUFACTURED FIXTURE. PROVIDE PENDANT EMERGENCY SECTIONS AND EMERGENCY CIRCUITS AS SHOWN. COORDINATE WITH FIXTURE MANUFACTURER AND PROVIDE ADDITIONAL ACCESSORIES FOR A COMPLETE AND PROPER INSTALLATION. PROVIDE PROPER FIXTURE LENGTH, FEEDS, SINGLE AND DUAL CIRCUITING AND SUSPENSION LENGTH AS SHOWN ON DRAWINGS. PROVIDE FABRICATION DRAWINGS FOR REVIEW AS PART OF THE SHOP DRAWING SUBMITTAL PROCESS.
3. LED FIXTURES (LESS THAN 10000 LUMENS) SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL EMERGENCY BATTERY UNITS BATTERY UNITS SHALL PROVIDE A MINIMUM OF 1400 LUMENS.
4. FIXTURES THAT CANNOT BE PROVIDED WITH EMERGENCY BALLASTS OR FIXTURES WITH GREATER THAN 10000 LUMENS SHALL BE PROVIDED WITH EMERGENCY INVERTER (MYERS #LV SERIES OR APPROVED EQUAL) WITH SUITABLE CAPACITY TO POWER FIXTURE FOR A MINIMUM OF 90 MINUTES PER CODE. VERIFY SIZING AND REQUIREMENTS WITH CONTRACT DOCUMENTS PRIOR TO ORDERING.
5. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.
6. FIXTURES WITH EMERGENCY BATTERIES SHALL BE PROVIDED WITH CONSTANT HOT SENSING WIRE SO THAT FIXTURE CAN BE SWITCHED ON AND OFF WITHOUT ACTIVATING EMERGENCY BALLAST. UPON LOSS OF POWER, THE FIXTURE SHALL BE ILLUMINATED FOR A MINIMUM OF 90 MINUTES REGARDLESS OF THE LIGHT SWITCH POSITION. PROVIDE TEST SWITCH AND CHARGING INDICATOR FOR EMERGENCY BATTERY AS SPECIFIED.
7. CAREFULLY COORDINATE MOUNTING REQUIREMENTS FOR FIXTURES WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER. PROVIDE APPROPRIATE MOUNTING FRAMES FOR LAY-IN OR GYPSUM CEILINGS. VERIFY CEILING REQUIREMENTS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
8. COMPLETE PHOTOMETRICS OF THE INTERIOR AND EXTERIOR LIGHTING SHALL BE SUBMITTED ALONG WITH THE LIGHTING SHOP DRAWINGS FOR REVIEW. FOR FINISHED SPACES, 80/50/20 REFLECTANCES SHALL BE UTILIZED. FOR UNFINISHED SPACES 50/50/20 REFLECTANCE SHALL BE UTILIZED. THE LLD VALUE THAT SHALL BE UTILIZED FOR LED IS .81. EXTERIOR CALCULATIONS SHALL ACCOUNT FOR HOUSE SIDE SHIELDING AND SHALL CONFORM TO LOCAL REQUIREMENTS.
9. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
10. VERIFY VOLTAGES OF EXISTING LIGHTING CIRCUITRY PRIOR TO ORDERING FIXTURES.
11. FOR FIXTURES INSTALLED IN CASEWORK, VERIFY FIXTURE FIT WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.
12. PROVIDE CUSTOM ANTI-SWAY BRACING FOR PENDANT TO ELIMINATE PENDANT MOVEMENT DUE TO AIR MOVEMENT OR ENVIRONMENTAL CAUSES.
13. COORDINATE LOCATIONS OF INTERIOR AND EXTERIOR LIGHTING FIXTURES WITH FINAL ARCHITECTURAL DRAWINGS. FIXTURES THAT ARE NOT INSTALLED IN THE CORRECT LOCATION SHALL BE RELOCATED AND REINSTALLED IN THE CORRECT LOCATION AT NO ADDITIONAL CHARGE.
14. FIXTURES SHALL BE PROVIDED WITH ESCUTCHEON PLATES AS REQUIRED TO COVER EXISTING HOLES FROM REMOVED FIXTURES. CANOPY CEILING AROUND NEW FIXTURES SHALL BE REFINISHED TO MATCH EXISTING SURROUNDING CANOPY CEILING SURFACES.
15. FIXTURES SHALL BE CAREFULLY COORDINATED WITH MANUFACTURER TO DELIVER THE SPECIFIED PRODUCT IN SUFFICIENT TIME TO MEET PROJECT DEADLINES. EQUIPMENT DELIVERY LEAD TIME SHALL NOT BE HELD AS A VALID REASON FOR REQUESTING LUMINAIRE SUBSTITUTION UNLESS LUMINAIRE LEAD TIME FROM SPECIFIED MANUFACTURER IS IN EXCESS OF 14 WEEKS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE NECESSARY EQUIPMENT LEAD TIMES, DELIVER SUBMITTALS FOR REVIEW IN A TIMELY FASHION, AND PLACE ORDERS ACCORDINGLY TO ENSURE TIMELY DELIVERY.
16. EVALUATION OF APPROVED EQUALS SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. IF THE PRODUCT SUBMITTED DURING THE REVIEW PROCESS IS NOT JUDGED AS AN EQUAL BY THE REVIEWING ENGINEER, THE CONTRACTOR SHALL PROVIDE THE PRODUCT SPECIFIED.
17. LIGHT FIXTURE TRANSFORMERS SHALL BE INTEGRAL STEP DOWN TRANSFORMERS PER NEC 210.6C. IF AN INTEGRAL STEP DOWN TRANSFORMER IS NOT AVAILABLE, PROVIDE A 120V CONNECTION FOR LIGHT FIXTURES AND ADDITIONAL CONTROL DEVICES AS REQUIRED TO PROPERLY CONTROL FIXTURES ALONG WITH OTHER 277 VOLT LIGHTING IN ROOM. VERIFY CONDITIONS AND REQUIREMENTS, COMPLETE AS REQUIRED.
18. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
19. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

PCF

LOCATION: ELECTRIC C104 **VOLTS:** 480/277 Wye
SUPPLY FROM: PANEL PCE **PHASES:** 3
MOUNTING: SURFACE **MAINS TYPE:** MLO
ENCLOSURE: NEMA 1 **MAIN RATING:** 225A
A.I.C. RATING: 10K **BUSSING:** COPPER
Notes:

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	SPARE		20 A	1	0			2635			1	20 A		POOL LTG	2
3	SPARE		20 A	1		0			2600		1	20 A		POOL LTG	4
5	SPARE		20 A	1			0			2600	1	20 A		POOL LTG	6
7					7474			1300			1	20 A		POOL LTG	8
9	PA1		60 A	3		7474			20		1	20 A		EXIT SIGNS	10
11							7474			164	1	20 A		LIGHTING	12
13					1329			130			1	20 A		EXTERIOR LIGHTING	14
15	BPA2		20 A	3		1329			40		1	20 A		LOWER LEVEL LIGHTING	16
17							1329			6000	1	50 A		EMERGENCY LIGHTING INVERTER	18
19					10831			25			1	20 A		EXTERIOR WALLPACK	20
21	45KVA TRANSFORMER C-6		70 A	3		13130			500		1	20 A		EXISTING CIRCUIT	22
23							12266			500	1	20 A		EXISTING CIRCUIT	24
25	SPARE		20 A	1	0			500			1	20 A		EXISTING CIRCUIT	26
27	SPARE		20 A	1		0			500		1	20 A		EXISTING CIRCUIT	28
29	SPARE		20 A	1			0			500	1	20 A		EXISTING CIRCUIT	30
31	SPACE		--	1	--			500			1	20 A		EXISTING CIRCUIT	32
33	SPACE		--	1		--			--		1	--		SPACE	34
35	SPACE		--	1			--			--	1	--		SPACE	36
37	SPACE		--	1	--			--			1	--		SPACE	38
39	SPACE		--	1		--			--		1	--		SPACE	40
41	SPACE		--	1			--			--	1	--		SPACE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	24711 VA
TOTAL CONNECTED LOAD PHASE B:	25591 VA
TOTAL CONNECTED LOAD PHASE C:	30830 VA
TOTAL CONNECTED LOAD:	81132 VA
TOTAL CONNECTED AMPS:	98 A

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

POOL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD WATTS	LOAD HP	FLA	MOCP	VOLT	PHASE	PANEL	CKT. NO.	FUSED SWITCH C/B	FEEDER CABLE	FEEDER C
PA1	FILTRATION PUMP VIA VFD VA1	22420	20			480	3	PCF	7-9-11	60A/3P	4 #4 & 1 #10 GRD	1"
BPA2	CHEMICAL BOOSTER PUMP	3986	3			480	3	PCF	13-15-17	20A/3P	4 #12 & 1 #12 GRD	3/4"
ACO1	AIR COMPRESSOR	1800	2			120	1	CJ	53	20A/1P	3 #12 & 1 #12 GRD	3/4"
UVA1	ULTRA VIOLET DISINFECTION	2500			30	208	3	CJ	41-43-45	30A/1P	4 #10 & 1 #10 GRD	3/4"
CPA1	CHLORINE FEEDER	1800		15		120	1	CJ	47	20A/1P	2 #12 & 1 #12 GRD	3/4"
APA1	PH FEEDER SCHEDULE	1800		15		120	1	CJ	49	20A/1P	2 #12 & 1 #12 GRD	3/4"
AFA1	WATER LEVEL CONTROLLER	2400		20		120	1	CJ	51	25A/1P	2 #10 & 1 #10 GRD	3/4"

GIBRALTAR DESIGN
ARCHITECTURE •ENGINEERING •INTERIOR DESIGN
MILLIES ENGINEERING GROUP (317) 924-8400 www.milliesengineeringgroup.com

PROJECT:

CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

FOR:

FAYETTE COUNTY SCHOOL CORPORATION

CONNERSVILLE, INDIANA

100% CONSTRUCTION DOCUMENTS

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9102 N. Meridian St., Ste. 300
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PROJECT 23-154
DATE 05/15/24
COORDINATED BY BK
DRAWN BY MH
CHECKED BY DJ

DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

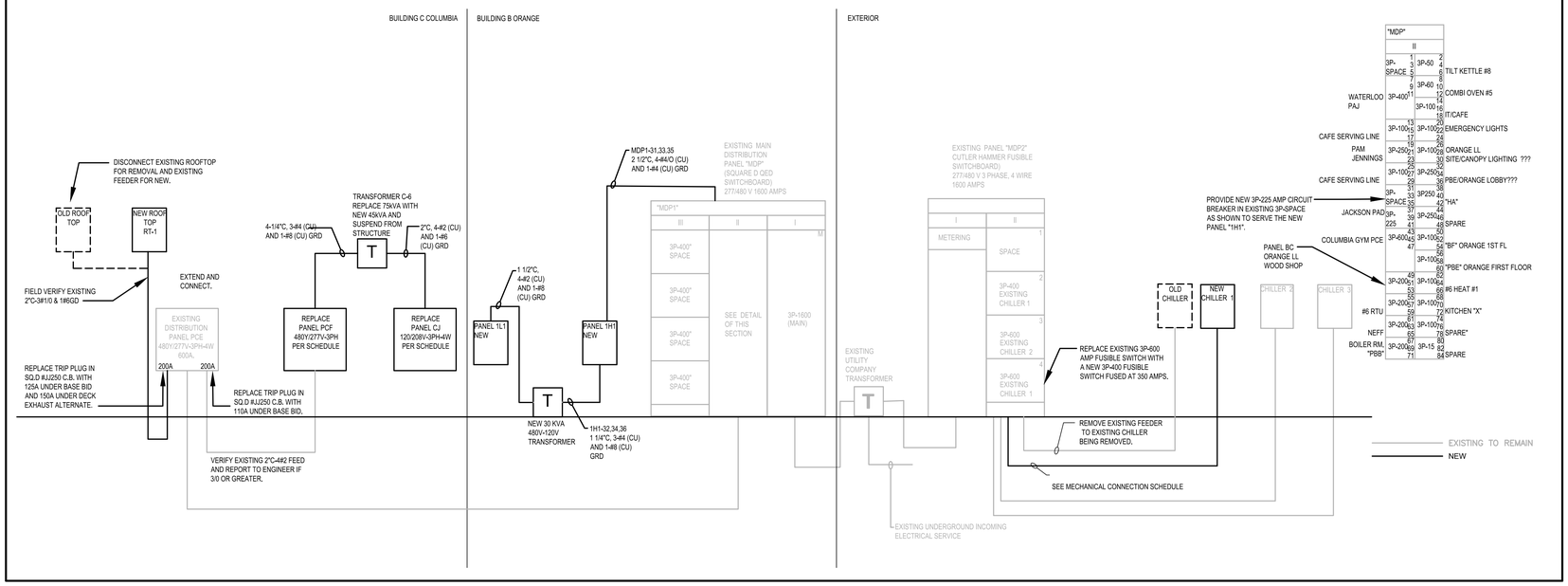
MARK	DATE	ISSUED FOR
AD-01	06/05/2024	ADDENDUM 1

DRAWING
ELECTRICAL SCHEDULES

PROJECT
CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

SHEET
E-501C

PARTIAL SINGLE LINE DIAGRAM



AD—1

1H1

LOCATION:
SUPPLY FROM: MDP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
A.I.C. RATING:
Notes:
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKER SHALL HAVE MINIMUM 35,000 AMP INTERRUPTING CAPACITY.

VOLTS: 480/277 Wye
PHASES: 3
MAINS TYPE: MLO
MAIN RATING: 225A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	SPARE		20 A	1	0			5813			3	60 A		DOMESTIC BOOSTER PUMP	2
3	SPARE		20 A	1		0			5813						4
5	SPARE		20 A	1			0			5813					6
7	SPARE		20 A	1	0			0			1	20 A		SPARE	8
9	SPARE		20 A	1		0			0		1	20 A		SPARE	10
11	SPARE		20 A	1			0			0	1	20 A		SPARE	12
13	SPARE		20 A	1	0			0			1	20 A		SPARE	14
15	SPARE		20 A	1		0			0		1	20 A		SPARE	16
17	SPARE		20 A	1			0			0	1	20 A		SPARE	18
19	SPARE		20 A	1	0			0			1	20 A		SPARE	20
21	SPARE		20 A	1		0			0		1	20 A		SPARE	22
23	SPARE		20 A	1			0			0	1	20 A		SPARE	24
25					14410			14410							26
27	CHILLED WATER PUMP CHP-1 (40 HP)		140 A	3		14410			14410		3	140 A		CHILLED WATER PUMP CHP-2 (40-HP)	28
29							14410			14410					30
31	SPARE		20 A	1	0			2630							32
33	SPARE		20 A	1		0			2630		3	70 A		30 KVA XFMR (PANEL "1L1")	34
35	SPARE		20 A	1			0			2500					36
37	SPARE		20 A	1	0			0			1	20 A		SPARE	38
39	SPARE		20 A	1		0			0		1	20 A		SPARE	40
41	SPARE		20 A	1			0			0	1	20 A		SPARE	42

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	37263 VA
TOTAL CONNECTED LOAD PHASE B:	37263 VA
TOTAL CONNECTED LOAD PHASE C:	37133 VA
TOTAL CONNECTED LOAD:	111659 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 134 A

1L1

LOCATION:
SUPPLY FROM: 30KVA...
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
A.I.C. RATING:
Notes:
BRANCH CIRCUITS SHALL BE CIRCUIT BREAKERS.
CIRCUIT BREAKERS SHALL HAVE MINIMUM 22,000 AMP INTERRUPTING CAPACITY - TYPE QOB-VH.

VOLTS: 120/208 Wye
PHASES: 3
MAINS TYPE: MCB
MAIN RATING: 100A
BUSSING: COPPER

CKT	CIRCUIT DESCRIPTION	LEG.	TRIP	POLES	A	B	C	A	B	C	POLES	TRIP	LEG.	CIRCUIT DESCRIPTION	CKT
1	CP-1		20 A	1	200			200			1	20 A		RECP (WATER SOFTENER)	2
3	CP-2		20 A	1		528			0		1	20 A		SPARE	4
5	TEMPERATURE CONTROL PANEL		20 A	1			1000			1500	1	20 A		CHILLER PIPING HEAT TRACE	6
7	SPARE		20 A	1	0			0			1	20 A		SPARE	8
9	SPARE		20 A	1		0			0		1	20 A		SPARE	10
11	SPARE		20 A	1			0			0	1	20 A		SPARE	12
13	SPARE		20 A	1	0			0			1	20 A		SPARE	14
15	SPARE		20 A	1		0			0		1	20 A		SPARE	16
17	SPARE		20 A	1			0			0	1	20 A		SPARE	18
19	SPARE		20 A	1	0			0			1	20 A		SPARE	20
21	SPARE		20 A	1		0			0		1	20 A		SPARE	22
23	SPARE		20 A	1			0			0	1	20 A		SPARE	24
25	SPARE		0 A	1	0			0			1	0 A		SPARE	26
27	SPARE		0 A	1		0			0		1	0 A		SPARE	28
29	SPARE		0 A	1			0			0	1	0 A		SPARE	30

LEGEND:
GC = PROVIDE GFI CIRCUIT BREAKER
ST = PROVIDE SHUNT TRIP BREAKER
LO = PROVIDE LOCKABLE DEVICE

PANEL TOTALS	
TOTAL CONNECTED LOAD PHASE A:	400 VA
TOTAL CONNECTED LOAD PHASE B:	528 VA
TOTAL CONNECTED LOAD PHASE C:	2500 VA
TOTAL CONNECTED LOAD:	3428 VA
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION	**TOTAL CONNECTED AMPS:** 10 A

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100% CONSTRUCTION DOCUMENTS

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PROJECT 23-154
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PROJECT
CONNERSVILLE HS NATATORIUM RENOVATION AND RELATED WORK

SHEET
E-601C