PROJECT *(Name and Address)*
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
1776 ADAMS LANE
HENDERSON, KY 42420

CHANGE ORDER NUMBER: 14-1
INITIATION DATE: 6/11/2025

TO CONTRACTOR *(Name and Address)*
IES KENTUCKY LLC

PROJECT NUMBERS: 000847
CONTRACT DATE: 1/6/2025
CONTRACT FOR: BID PACKAGE #14 ELECTRICAL

THE CONTRACT IS CHANGED AS FOLLOWS:

The original Contract Sum was	3,822,494.86
Net change by previously authorized Change Orders	0.00
The Contract Sum prior to this Change Order was	3,822,494.86
The Contract Sum will be Increased by this Change Order in the amount of	7,434.00
The new Contract Sum including this Change Order will be	3,824,217.86

The Contract Time will be adjusted by 0 days.
The date of Substantial Completion as of the date of this Change Order therefore is 7/22/2027.

NOT VALID UNTIL SIGNED BY THE CONSTRUCTION MANAGER, ARCHITECT, CONTRACTOR AND OWNER.

CODELL CONSTRUCTION COMPANY
CONSTRUCTION MANAGER *(Firm Name)*
4475 ROCKWELL ROAD WINCHESTER, KY 40391
ADDRESS

BY *(Signature)*

(Typed Name) **DATE:**

RBS DESIGN GROUP ARCHITECTURE
ARCHITECT *(Firm Name)*
723 HARVARD DRIVE OWENSBORO, KY 42301
ADDRESS

BY *(Signature)*

(Typed Name) **DATE:**

IES KENTUCKY LLC
CONTRACTOR *(Firm Name)*
1550 EAST 11TH STREETOWENSBORO, KY 42303
ADDRESS

BY *(Signature)*

(Typed Name) **DATE:**

HENDERSON COUNTY BOARD OF EDUCATION
OWNER *(Firm Name)*
1805 SECOND STREET HENDERSON, KY 42420
ADDRESS

BY *(Signature)*

(Typed Name) **DATE:**

AIA® Document G701/CMa™ – 1992

Change Order - Construction Manager-Adviser Edition

OWNER ☒
CONSTRUCTION MANAGER ☐
ARCHITECT ☐
CONTRACTOR ☐
FIELD ☐
OTHER ☐

PROJECT *(Name and Address)*
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1776 ADAMS LANE
HENDERSON, KY 42420

CHANGE ORDER NUMBER: 14-1
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IES KENTUCKY LLC

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ADDRESS
BY *(Signature)*
(Typed Name) **DATE:**

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User Notes: (1884033357)

April 17, 2024

Re: PR-01– Electrical Panelboards
Henderson Co. East Heights Elementary School
CMTA Project No. XHER23

Mr. Blake Graham,

Please issue the following directive as a PR for the aforementioned project. The PR includes the following drawings and written description:

1. Refer to Sheet E0.30 – PANEL SCHEDULES:
    a. Refer to clouded region. Provide 225A panel for PP3 instead of 100A.
    b. Refer to clouded region. Provide 60A/3P breaker at PP3 panel for LP3 instead of 100A/3P breaker. Refer to clouded changes on One-line diagram for updated wire size and conduit: 4-#6, 1-#10 instead of 4-#3, 1-#8.
    c. Refer to clouded region. PP5 panel shall be MLO instead of MCB.
2. Refer to Sheet E0.31 – PANEL SCHEDULES:
    a. Refer to clouded region. MP1 panel shall be MLO instead of MCB.
    b. Refer to clouded region. DP4 distribution panel shall be MLO instead of MCB.
    c. Refer to clouded region. ELS1 panel shall be 225A MCB instead of 100A MLO. Provide 60A/3P breaker at ELS1 panel for ELS1B instead of 100A/3P breaker. Refer to general note shown on this panel schedule. Refer to clouded changes on One-line diagram for updated wire size and conduit.
    d. Refer to clouded region. ESB1 panel shall be 225A MCB instead of 225A MLO. Refer to general note shown on this panel schedule.
        i. Refer to One-line diagram and clouded region on Sheet E3.78: Omit SBATS2 transfer switch to panel ESB2. ESB2 panel shall be fed from ESB1 panel and be provided with 60A/3P breaker at ESB1. Refer to One-line diagram for wire size and conduit.
            1. ESB2 panel shall be 100A MLO instead of 225A MCB.
        ii. Refer to One-line diagram: Refer to updated wire size and conduit for panel ESB1B.
3. Refer to Sheet E2.78 – ELECTRICAL ONE-LINE DIAGRAM DEMOLITION – PHASE 2
    a. Refer to clouded region for correction.
4. Refer to Sheet E2.88 – NEW ELECTRICAL ONE-LINE DIAGRAM – PHASE 2
    a. Refer to clouded regions for changes:
        i. Provide 60A/3P at the new NMDP for both LP1 and LP2 instead of 100A/3P. Refer to change/decrease in wire size as well.
        ii. Provide DP4 with MLO instead of MCB.

iii. PP5 is now shown as being fed from EX (SIEMENS) MDP. Utilize existing 100A/3P spare breaker at the panel.
iv. LP3 shown with change/decrease in wire size.
v. Per Item #2(d)(i): ESB2 panel fed from ESB1 panel.

b. For Generator panels:
   i. General note: Refer to changes in wire sizes.
   ii. Provide two (2) 225A/3P electronic trip breakers on the generator instead of four(4) 100A/3P breakers on the generator: One for ELS1 branch and the other for ESB1 branch.
   iii. Docking Station shall be 225A/3P instead of 100A/3P.
   iv. LSATS transfer switch shall be 225A/4P instead of 100A/4P.
   v. SBATS transfer switch shall be 225A/4P instead of 100A/4P.
   vi. Refer to additional information for the provision of dedicated load center for generator circuits (battery charger, heater, etc.).

5. Refer to Sheet E3.11 – ELECTRICAL DEMOLITION PLAN – PHASE 3 – AREA B
   a. Refer to clouded region and clouded tagged notes for demolition of existing Onan ATS to existing Life Safety (E Panel). Refer to One-line diagrams for more information of scope of work.
6. Refer to Sheet E3.78 – ELECTRICAL ONE-LINE DIAGRAM DEMOLITION – PHASE 3
   a. Refer to clouded regions:
      i. Revised One-line diagram to reflect changes in accordance with listed items above.
7. Refer to Sheet E4.88 – NEW ELECTRICAL ONE-LINE DIAGRAM – PHASE 4
   a. Refer to clouded regions:
      i. Revised One-line diagram to reflect changes in accordance with listed items above.
8. Refer to Sheet EU1.2 – ELECTRICAL SITE UTILITY NEW WORK PLAN
   a. Refer to clouded region on drawings and clouded tagged notes for location/mounting of dedicated load center to generator circuits.

If you need any further assistance, please don't hesitate to contact me.

Sincerely,

Adrian Partridge

Adrian Partridge

PANELBOARD AND WIRING SCHEDULE

PANEL: LP1 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 18,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:**
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG - EXTERIOR	1-#12, 1-#12, 1-#12	20	1	1	0.1	0.6					2	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 125 & MECH 123	
	LTNG - CORRIDOR	1-#12, 1-#12, 1-#12	20	1	3			0.6	0.7			4	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 120 & RM 118	
	SPARE	--	20	1	5					0.0	0.5	6	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 131, RM 129, ACCESS...	
	LTNG - RM 132 & RM 133	1-#12, 1-#12, 1-#12	20	1	7	0.7	0.8					8	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 121 A-B & RM 119	
	LTNG - RR 126 & 124, JAN 124A, & R...	1-#12, 1-#12, 1-#12	20	1	9			0.9	0.7			10	1	20	1-#12, 1-#12, 1-#12	LTNG - CORRIDOR	
	LTNG - RM 130 & RM 128	1-#12, 1-#12, 1-#12	20	1	11					0.7	0.4	12	1	20	1-#12, 1-#12, 1-#12	LTNG - MEZZANINE	
	LTNG - SITE PARKING	1-#12, 1-#12, 1-#12	20	1	13	0.1	0.2					14	1	20	1-#12, 1-#12, 1-#12	LTNG - SITE PARKING	
	LTNG - SITE PARKING	1-#12, 1-#12, 1-#12	20	1	15			0.1	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
						2.5 kVA		3.1 kVA		1.7 kVA							
						22 A		27 A		14 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	7199 VA
LTNG	7199 VA	100.00%	7199 VA	TOTAL ESTIMATED DEMAND:	7199 VA
				TOTAL CONNECTED CURRENT:	20 A
				TOTAL ESTIMATED DEMAND CURRENT:	20 A
				25 % ADDITIONAL CAPACITY:	5 A
				TOTAL PANEL CURRENT:	25 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LP2 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:**
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG - EXTERIOR CANOPY	1-#12, 1-#12, 1-#12	20	1	1	0.1	0.2					2	1	20	1-#12, 1-#12, 1-#12	LTNG - MEZZANINE	
	LTNG - CANOPY	1-#12, 1-#12, 1-#12	20	1	3			0.1	0.3			4	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 133	
	LTNG - CORRIDOR C101	1-#12, 1-#12, 1-#12	20	1	5					0.2	0.3	6	1	20	1-#12, 1-#12, 1-#12	LTNG - CANOPY	
	LTNG - MEZZANINE	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.8					8	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 110, 108, 106, 104, & 101	
	LTNG - RM 117 & 115	1-#12, 1-#12, 1-#12	20	1	9			0.7	0.4			10	1	20	1-#12, 1-#12, 1-#12	LTNG - CORRIDOR	
	LTNG - RM 116, 114, 112, & 112A	1-#12, 1-#12, 1-#12	20	1	11					0.6	0.5	12	1	20	1-#12, 1-#12, 1-#12	LTNG - RM 109, 107, 103M 102, 102...	
	LTNG - RM 113 & 111 A-B	1-#12, 1-#12, 1-#12	20	1	13	0.8	0.4					14	1	20	1-#12, 1-#12, 1-#12	LTNG - ENTRY 100	
	LTNG - CORRIDOR C100	1-#12, 1-#12, 1-#12	20	1	15			0.4	0.4			16	1	20	1-#12, 1-#12, 1-#12	LTNG - DAYCARE 2 RM 138	
	LTNG - DAYCARE RM 134 & 136	1-#12, 1-#12, 1-#12	20	1	17					0.6	0.2	18	1	20	1-#12, 1-#12, 1-#12	LTNG - CORRIDOR C102 & C103	
	LTNG - EXT SIGNAGE	1-#12, 1-#12, 1-#12	20	1	19	0.1	0.1					20	1	20	1-#12, 1-#12, 1-#12	LTNG - EXT SIGNAGE	
	LTNG - EXT SIGNAGE	1-#12, 1-#12, 1-#12	20	1	21			0.1	0.1			22	1	20	1-#12, 1-#12, 1-#12	LTNG - EXT SIGNAGE	
	LTNG - TAPE LIGHT RECEPTION...	1-#12, 1-#12, 1-#12	20	1	23					0.3	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
						2.9 kVA		2.5 kVA		2.8 kVA							
						24 A		21 A		23 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	8151 VA	100.00%	8151 VA	TOTAL CONNECTED LOAD:	8151 VA
				TOTAL ESTIMATED DEMAND:	8151 VA
				TOTAL CONNECTED CURRENT:	23 A
				TOTAL ESTIMATED DEMAND CURRENT:	23 A
				25 % ADDITIONAL CAPACITY:	6 A
				TOTAL PANEL CURRENT:	28 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: LP3 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** Space 42
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** PP3

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG Room 44, 46, 43, 42, 45	1-#12, 1-#12, 1-#12	20	1	1	0.3	0.6					2	1	20	1-#12, 1-#12, 1-#12	LTNG CORRIDOR	
	LTNG Room 23, 17	1-#12, 1-#12, 1-#12	20	1	3			0.6	0.6			4	1	20	1-#12, 1-#12, 1-#12	LTNG Room 24, 14	
	LTNG Room 33, 35	1-#12, 1-#12, 1-#12	20	1	5					0.6	0.6	6	1	20	1-#12, 1-#12, 1-#12	LTNG Room 36, 30	
	LTNG Room 21, 26	1-#12, 1-#12, 1-#12	20	1	7	0.6	0.1					8	1	20	1-#12, 1-#12, 1-#12	LTNG - Entry Exterior	
	SPARE	--	20	1	9			0.0	0.0			10	1	20	--	SPARE	
	SPARE	--	20	1	11					0.0	0.0	12	1	20	--	SPARE	
	SPARE	--	20	1	13	0.0	0.0					14	1	20	--	SPARE	
	SPARE	--	20	1	15			0.0	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
						1.7 kVA		1.3 kVA		1.3 kVA							
						14 A		11 A		11 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	4214 VA	100.00%	4214 VA	TOTAL CONNECTED LOAD:	4214 VA
				TOTAL ESTIMATED DEMAND:	4214 VA
				TOTAL CONNECTED CURRENT:	12 A
				TOTAL ESTIMATED DEMAND CURRENT:	12 A
				25 % ADDITIONAL CAPACITY:	3 A
				TOTAL PANEL CURRENT:	15 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: 1RP1 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 18,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - 2ND GRADE RM 133	1-#12, 1-#12, 1-#12	20	1	1	0.5	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 2ND GRADE RM 133	
	REC - 2ND GRADE RM 133	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.5			4	1	20	1-#12, 1-#12, 1-#12	REC - 2ND GRADE RM 132	
	REC - TEACHER 2ND GRADE RM 132	1-#12, 1-#12, 1-#12	20	1	5					0.5	0.5	6	1	20	1-#12, 1-#12, 1-#12	REC - 2ND GRADE 132	
	REC - COMPUTER RM 131	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER COMPUTER RM 131	
	REC - COMPUTER RM 131	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 2ND GRADE RM 130	
	REC - 2ND GRADE RM 130, CLOSE...	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12	REC - 2ND GRADE RM 130	
	REC - TEACHER 2ND GRADE RM 128	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC - 2ND GRADE RM 128	
	REC - 2ND GRADE RM 128, CLOSE...	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.4			16	1	20	1-#12, 1-#12, 1-#12	REC - ACCESS 127A, RR 127B	
	REC - FIRE SUPPRESSION RM 129	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER FMD RM 125	
	REC - FMD RM 125	1-#12, 1-#12, 1-#12	20	1	19	0.4	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC - FMD RM 125	
	REC - KINDERGARTEN RM 122	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER KINDERGARTEN R...	
	REC - KINDERGARTEN RM 122	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.4	24	1	20	1-#12, 1-#12, 1-#12	REC - BR 124 & GR 126	
	REC - CORRIDOR C100	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER KINDERGARTEN R...	
	REC - KINDERGARTEN RM 120	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.5			28	1	20	1-#12, 1-#12, 1-#12	REC - KINDERGARTEN RM 120	
	REC - KINDERGARTEN RM 118	1-#12, 1-#12, 1-#12	20	1	29					0.5	0.5	30	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER KINDERGARTEN R...	
	REC - KINDERGARTEN RM 118	1-#12, 1-#12, 1-#12	20	1	31	0.5	0.5					32	1	20	1-#12, 1-#12, 1-#12	REC - TEACHERS 1ST GRADE RM...	
	REC - 1ST GRADE RM 117	1-#12, 1-#12, 1-#12	20	1	33			0.4	0.5			34	1	20	1-#12, 1-#12, 1-#12	REC - 1ST GRADE RM 119	
	MOTORIZED ROLLER SHADES	1-#12, 1-#12, 1-#12	20	1	35					0.5	0.5	36	1	20	1-#12, 1-#12, 1-#12	MOTORIZED ROLLER SHADES	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						6.1 kVA		6.1 kVA		6.1 kVA							
						51 A		51 A		51 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	900 VA	80.00%	720 VA	TOTAL CONNECTED LOAD:	18360 VA
REC	17460 VA	78.64%	13730 VA	TOTAL ESTIMATED DEMAND:	14450 VA
				TOTAL CONNECTED CURRENT:	51 A
				TOTAL ESTIMATED DEMAND CURRENT:	40 A
				25 % ADDITIONAL CAPACITY:	10 A
				TOTAL PANEL CURRENT:	50 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: 2RP1 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 18,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - EXTERIOR	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.4					2	1	20	1-#12, 1-#12, 1-#12	REC - EXTERIOR	
	REC - EXTERIOR	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.2			4	1	20	1-#12, 1-#12, 1-#12	REC - EWC	1
1	REC - EWC	1-#12, 1-#12, 1-#12	20	1	5					0.2	1.4	6	1	20	1-#12, 1-#12, 1-#12	HAND DRYER	
	RR - AUTO HAND DRYER	1-#12, 1-#12, 1-#12	20	1	7	1.4	0.7					8	1	20	1-#12, 1-#12, 1-#12	REC - RESOURCE RM 121A &121B	
	REC - RESOURCE RM 111B	1-#12, 1-#12, 1-#12	20	1	9			0.4	0.4			10	1	20	1-#12, 1-#12, 1-#12	REC - RESOURCE RM 121B	
	REC - RESOURCE RM 121B	1-#12, 1-#12, 1-#12	20	1	11					0.7	0.4	12	1	20	1-#12, 1-#12, 1-#12	REC - RESOURCE RM 121A	
	REC - RESOURCE RM 121A	1-#12, 1-#12, 1-#12	20	1	13	0.7	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC - 1ST GRADE RM 119	
	REC - 1ST GRADE RM 119	1-#12, 1-#12, 1-#12	20	1	15			0.4	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC - TEACHERS 1ST GRADE RM...	
	REC - FRC DESK RM 116	1-#12, 1-#12, 1-#12	20	1	17					0.5	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC - FRC RM 112	
	REC - SAM OFFICE RM 114	1-#12, 1-#12, 1-#12	20	1	19	0.9	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC - MUSIC RM 135	
	REC - RESOURCE RM 111A	1-#12, 1-#12, 1-#12	20	1	21			0.4	0.4			22	1	20	1-#12, 1-#12, 1-#12	REC - DAYCARE 1 RM 134	
	REC - DAYCARE 2 138	1-#12, 1-#12, 1-#12	20	1	23					0.4	0.4	24	1	20	1-#12, 1-#12, 1-#12	REC - DAYCARE 2 RM 138	
	REC - LAPTOP CHARGING STN. RM...	1-#12, 1-#12, 1-#12	20	1	25	0.4	0.4					26	1	20	1-#12, 1-#12, 1-#12	REC - LAPTOP CHARGING STN. RM...	
	REC - LAPTOP CHARGING STN. RM...	1-#12, 1-#12, 1-#12	20	1	27			0.4	0.4			28	1	20	1-#12, 1-#12, 1-#12	REC - LAPTOP CHARGING STN. FM...	
	REC - LAPTOP CHARGING STN. FM...	1-#12, 1-#12, 1-#12	20	1	29					0.4	0.4	30	1	20	1-#12, 1-#12, 1-#12	REC - LAPTOP CHARGING STN. FM...	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	MOTORIZED ROLLER SHADES	1-#12, 1-#12, 1-#12	20	1	33			0.5	0.5			34	1	20	1-#12, 1-#12, 1-#12	MOTORIZED ROLLER SHADES	
	MOTORIZED ROLLER SHADES	1-#12, 1-#12, 1-#12	20	1	35					0.6	0.3	36	1	20	1-#12, 1-#12, 1-#12	MOTORIZED ROLLER SHADES	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	MOTORIZED ROLLER SHADES	1-#12, 1-#12, 1-#12	20	1	39			0.5	0.5			40	1	20	1-#12, 1-#12, 1-#12	MOTORIZED ROLLER SHADES	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						6.3 kVA		5.6 kVA		6.1 kVA							
						53 A		47 A		51 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	5500 VA	80.00%	4400 VA	TOTAL CONNECTED LOAD:	17920 VA
REC	12420 VA	90.26%	11210 VA	TOTAL ESTIMATED DEMAND:	15610 VA
				TOTAL CONNECTED CURRENT:	50 A
				TOTAL ESTIMATED DEMAND CURRENT:	43 A
				25 % ADDITIONAL CAPACITY:	11 A
				TOTAL PANEL CURRENT:	54 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1 PROVIDE WITH GFCI RATED CIRCUIT BREAKER.

PANELBOARD AND WIRING SCHEDULE

PANEL: RP2 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 22,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:**
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - EXTERIOR	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.2					2	1	20	1-#12, 1-#12, 1-#12	REC - RR 105, 102A, & 107A	
	REC - TEACHERS 1ST GRADE RM...	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.5			4	1	20	1-#12, 1-#12, 1-#12	REC - 2ND GRADE RM 113	
	REC - PSYCH RM 110	1-#12, 1-#12, 1-#12	20	1	5					0.9	0.9	6	1	20	1-#12, 1-#12, 1-#12	REC - WORKROOM RM 107	
	REC - BOOKKEEPER RM 104	1-#12, 1-#12, 1-#12	20	1	7	0.9	0.9					8	1	20	1-#12, 1-#12, 1-#12	REC - GUIDANCE RM 109	
	REC - PRINCIPAL RM 108	1-#12, 1-#12, 1-#12	20	1	9			0.9	0.4			10	1	20	1-#12, 1-#12, 1-#12	REC - 1ST GRADE RM 115	
	REC - TEACHER 2ND GRADE RM 113	1-#12, 1-#12, 1-#12	20	1	11					0.4	0.4	12	1	20	1-#12, 1-#12, 1-#12	REC - EXTERIOR	
	REC - MUSIC RM 135	1-#12, 1-#12, 1-#12	20	1	13	0.4	0.4					14	1	20	1-#12, 1-#12, 1-#12	REC - DAYCARE 2 RM 138	
	REC - DAYCARE OFFICE RM 136	1-#12, 1-#12, 1-#12	20	1	15			0.4	0.7			16	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER RESOURCE RM...	
	REC - TEACHER RESOURCE RM...	1-#12, 1-#12, 1-#12	20	1	17					0.7	0.4	18	1	20	1-#12, 1-#12, 1-#12	REC - RESOURCE RM 111A	
	REC - RESOURCE RM 111B	1-#12, 1-#12, 1-#12	20	1	19	0.4	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC - DAYCARE OFFICE RM 136	
	REC - ENTRY 100 & CORRIDOR C102	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC - DAYCARE 1 RM 134	
	REC - DAYCARE 1 RM 134	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC - CORRIDOR C100	
	REC - CORRIDOR C100 & C101	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC - 1ST GRADE RM 115	
	REC - 2ND GRADE RM 113	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.7			28	1	20	1-#12, 1-#12, 1-#12	REC - RECEPTION FB RM 101	
	REC - RECEPTION RM 101	1-#12, 1-#12, 1-#12	20	1	29					0.7	0.7	30	1	20	1-#12, 1-#12, 1-#12	REC - MENTAL HEALTH RM 106	
	REC - MUSIC RM 135	1-#12, 1-#12, 1-#12	20	1	31	0.4	0.7					32	1	20	1-#12, 1-#12, 1-#12	REC - FIRST AID RM 102	
	REC - CONFERENCE RM 112	1-#12, 1-#12, 1-#12	20	1	33			0.5	0.4			34	1	20	1-#12, 1-#12, 1-#12	REC - CONFERENCE TV	
	REC - CONFERENCE RM 112	1-#12, 1-#12, 1-#12	20	1	35					0.9	0.4	36	1	20	1-#12, 1-#12, 1-#12	REC - CORRIDOR C103	
	EQUIP	1-#12, 1-#12, 1-#12	20	1	37	0.3	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						6.2 kVA		6.7 kVA		7.4 kVA							
						52 A		56 A		62 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	1020 VA	80.00%	816 VA	TOTAL CONNECTED LOAD:	20280 VA
REC	19260 VA	75.96%	14630 VA	TOTAL ESTIMATED DEMAND:	15446 VA
				TOTAL CONNECTED CURRENT:	56 A
				TOTAL ESTIMATED DEMAND CURRENT:	43 A
				25 % ADDITIONAL CAPACITY:	11 A
				TOTAL PANEL CURRENT:	54 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

3

PANELBOARD AND WIRING SCHEDULE

PANEL: PP3 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** Space 42
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** DP4

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - TEACHER 3RD GRADE RM 146	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC - SMARTBOARD 3RD GRADE...	
	REC - 3RD GRADE RM 146	1-#12, 1-#12, 1-#12	20	1	3			0.5	0.4			4	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 3RD GRADE RM 148	
	REC - SMARTBOARD 3RD GRADE...	1-#12, 1-#12, 1-#12	20	1	5					0.5	0.5	6	1	20	1-#12, 1-#12, 1-#12	REC - 3RD GRADE RM 148	
	REC - TEACHER 3RD GRADE RM 147	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.5					8	1	20	1-#12, 1-#12, 1-#12	REC - SMARTBOARD 3RD GRADE...	
	REC - 3RD GRADE RM 147	1-#12, 1-#12, 1-#12	20	1	9			0.5	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 4TH GRADE RM 150	
	REC - 4TH GRADE RM 150	1-#12, 1-#12, 1-#12	20	1	11					0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12	REC - SMARTBOARD 4TH GRADE R...	
	REC - SMARTBOARD 4TH GRADE R...	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.5					14	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 4TH GRADE RM 149	
	REC - 4TH GRADE RM 149	1-#12, 1-#12, 1-#12	20	1	15			0.4	0.5			16	1	20	1-#12, 1-#12, 1-#12	REC - CORRIDOR	
	REC - RR 151B & RR 151A	1-#12, 1-#12, 1-#12	20	1	17					0.4	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 4TH GRADE RM 152	
	REC - SMARTBOARD 4TH GRADE R...	1-#12, 1-#12, 1-#12	20	1	19	0.5	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC - 4TH GRADE RM 152	
	REC - TEACHER 5TH GRADE RM 154	1-#12, 1-#12, 1-#12	20	1	21			0.5	0.5			22	1	20	1-#12, 1-#12, 1-#12	REC - 5TH GRADE RM 154	
	REC - SMARTBOARD 5TH GRADE R...	1-#12, 1-#12, 1-#12	20	1	23					0.5	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC - SMARTBOARD 5TH GRADE R...	
	REC - TEACHER 5TH GRADE RM 153	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.5					26	1	20	1-#12, 1-#12, 1-#12	REC - 5TH GRADE RM 153	
	REC - TEACHER 5TH GRADE RM 156	1-#12, 1-#12, 1-#12	20	1	27			0.5	0.7			28	1	20	1-#12, 1-#12, 1-#12	REC - SMARTBOARD 5TH GRADE R...	
	REC - 5TH GRADE RM 156	1-#12, 1-#12, 1-#12	20	1	29					0.5	0.5	30	1	20	1-#12, 1-#12, 1-#12	REC - TEACHER 5TH GRADE RM 155	
	REC - 5TH GRADE RM 155	1-#12, 1-#12, 1-#12	20	1	31	0.5	0.5					32	1	20	1-#12, 1-#12, 1-#12	REC - SMARTBOARD 5TH GRADE R...	
	REC - OUTDOOR ERV-2	1-#12, 1-#12, 1-#12	20	1	33			0.4	1.8			34	1	30	1-#10, 1-#10, 1-#10	HEAT TRACE	
	HEAT TRACE	1-#10, 1-#10, 1-#10	30	1	35					1.8	0.5	36	1	20	1-#12, 1-#12, 1-#12	MOTORIZED ROLLER SHADES	
	EQUIP	1-#12, 1-#12, 1-#12	20	1	37	0.3	0.5					38	1	20	1-#12, 1-#12, 1-#12	EQUIP	
	EQUIP	1-#12, 1-#12, 1-#12	20	1	39			0.3	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	1.7					50	3	60	3-#6, 1-#6, 1-#10	LP3	
	SPARE	--	20	1	51			0.0	1.3			52					
	SPARE	--	20	1	53					0.0	1.3	54					
						8.6 kVA		8.9 kVA		8.7 kVA							
						71 A		75 A		73 A							

3

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	5100 VA	80.00%	4080 VA	TOTAL CONNECTED LOAD:	26234 VA
LTNG	4214 VA	100.00%	4214 VA	TOTAL ESTIMATED DEMAND:	21754 VA
REC	16920 VA	79.55%	13460 VA	TOTAL CONNECTED CURRENT:	73 A
				TOTAL ESTIMATED DEMAND CURRENT:	60 A
				25 % ADDITIONAL CAPACITY:	15 A
				TOTAL PANEL CURRENT:	75 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: PP4 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** MECHANICAL 141
AMPERES: 225 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** DP4

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG - Media Center Exterior	1-#12, 1-#12, 1-#12	20	1	1	0.1	0.3					2	1	20	1-#12, 1-#12, 1-#12	MOTORIZED ROLLER SHADES	
	LTNG Space 74	1-#12, 1-#12, 1-#12	20	1	3			0.3	1.1			4	1	20	1-#12, 1-#12, 1-#12	NEW MEDIA LIBRARY LTNG	
	REC - MEDIA CENTER 139 &...	1-#12, 1-#12, 1-#12	20	1	5					0.4	1.0	6	1	20	1-#12, 1-#12, 1-#12	NEW MEDIA LIBRARY LTNG	
	REC - FLOORBOX MEDIA CENTER...	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.6					8	1	20	1-#12, 1-#12, 1-#12	NEW OFFICE/MECHANICAL...	
	REC - MEDIA CENTER 139...	1-#12, 1-#12, 1-#12	20	1	9			0.4	0.5			10	1	20	1-#12, 1-#12, 1-#12	REC - OFFICE 142 & CORRIDOR	
	SPARE	--	20	1	11					0.0	0.0	12	1	20	--	SPARE	
	SPARE	--	20	1	13	0.0	0.4					14	1	20	1-#12, 1-#12, 1-#12	REC - MEDIA CENTER 139...	
	REC - MEDIA CENTER 139	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.7			16	1	20	1-#12, 1-#12, 1-#12	REC - FLOORBOX MEDIA CENTER...	
	REC - OFFICE 140	1-#12, 1-#12, 1-#12	20	1	17					0.4	0.5	18	1	20	1-#12, 1-#12, 1-#12	REC - STORAGE 143	
	SPARE	--	20	1	19	0.0	0.5					20	1	20	1-#12, 1-#12, 1-#12	REC - OFFICE 142	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.5	24	1	20	1-#12, 1-#12, 1-#12	REC - MEDIA CENTER 139 &...	
	REC - MECHANICAL 141 & EXTERIOR	1-#12, 1-#12, 1-#12	20	1	25	0.5	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.7	30	1	20	1-#12, 1-#12, 1-#12	REC - MEDIA CENTER 139	
	REC - CORRIDOR & OFFICE	1-#12, 1-#12, 1-#12	20	1	31	0.7	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						3.5 kVA		3.5 kVA		3.6 kVA							
						29 A		29 A		30 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	300 VA	80.00%	240 VA	TOTAL CONNECTED LOAD:	10573 VA
LTNG	3073 VA	100.00%	3073 VA	TOTAL ESTIMATED DEMAND:	10513 VA
REC	7200 VA	100.00%	7200 VA	TOTAL CONNECTED CURRENT:	29 A
				TOTAL ESTIMATED DEMAND CURRENT:	29 A
				25 % ADDITIONAL CAPACITY:	7 A
				TOTAL PANEL CURRENT:	36 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

3

PANELBOARD AND WIRING SCHEDULE

PANEL: PP5 | **MAINS TYPE:** MLO | **PANEL INTERRUPTING RATING:** 42,000
VOLTAGE: 208Y/120V,3P,4W | **SPD:** No | **LOCATION:** Space 101
AMPERES: 100 A | **MOUNTING:** SURFACE | **SUPPLY FROM:** MDP (EX)

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG Space 118	1-#12, 1-#12, 1-#12	20	1	1	0.4	2.0					2	2	20	2-#10, 1-#10, 1-#10	CU-24 - IDF INDOOR/OUTDOOR UNIT	
	REC - INDOOR/OUTDOOR CU-24...	1-#12, 1-#12, 1-#12	20	1	3			0.2	2.0			4					
	CU-24 - CORRIDOR	2-#8, 1-#8, 1-#8	20	2	5					2.0	0.2	6	1	20	1-#12, 1-#12, 1-#12	REC	
					7	2.0	0.2					8	1	20	1-#12, 1-#12, 1-#12	REC - INDOOR/OUTDOOR CU-12...	
	CU-12 - MUSIC INDOOR/OUTDOOR UNIT	2-#10, 1-#10, 1-#10	15	2	9			1.2	0.4			10	2	20	2-#12, 1-#12, 1-#12	ERV-3 - MUSIC ROOM	
					11					1.2	0.4	12					
	REC Space 118	1-#12, 1-#12, 1-#12	20	1	13	0.2	0.4					14	1	20	1-#10, 1-#10, 1-#10	REC	
	LTNG - EXTERIOR WALKWAY	1-#12, 1-#12, 1-#12	20	1	15			0.2	0.0			16	1	20	1-#12, 1-#12, 1-#12	LTNG	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
						5.1 kVA		4.0 kVA		3.8 kVA							
						43 A		34 A		31 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	11150 VA	80.00%	8920 VA	TOTAL CONNECTED LOAD:	12819 VA
LTNG	589 VA	100.00%	589 VA	TOTAL ESTIMATED DEMAND:	10589 VA
REC	1080 VA	100.00%	1080 VA	TOTAL CONNECTED CURRENT:	36 A
				TOTAL ESTIMATED DEMAND CURRENT:	29 A
				25 % ADDITIONAL CAPACITY:	7 A
				TOTAL PANEL CURRENT:	37 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

RBS DESIGN GROUP
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JOB NUMBER	Y23008A/XHER23
DRAWN BY	AP
CHECKED BY	BWR
DATE	09/10/2024

No.	Description	Date
1	Addendum 1	11/05/2024
2	Addendum 4	12/04/2024
3	PR#01	04/17/2025

STATE OF KENTUCKY
BRADLEY WYNN REEVES
20984
LICENSED PROFESSIONAL ENGINEER

CMTA
115 Memorial Drive
Paducah, KY 42001

HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY
PANEL SCHEDULES

SHEET NUMBER
E0.30

PANELBOARD AND WIRING SCHEDULE

PANEL: MP1 — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 18,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:**
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	VHP-18 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	1	1.0	0.5					2	1	20	1-#12, 1-#12, 1-#12	REC - MECH 123	
					3			1.0				4					
	VHP-18 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	5					1.0	1.0	6	2	20	2-#12, 1-#12, 1-#12	VHP-18 - Mezzanine	
					7	1.0	1.0					8					
	VHP-18 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	9			1.0	0.4			10	1	20	1-#12, 1-#12, 1-#12	REC - JAN 124A	
					11					1.0	1.0	12					
	VHP-18 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	13	1.0	1.0					14	3	15	3-#12, 1-#12, 1-#12	VHP-24 - Mezzanine	
					15			1.0	1.0			16					
	RP-01 - FIRE SUPPRESSION 129	1-#12, 1-#12, 1-#12	20	1	17					0.3	0.6	18	1	20	1-#12, 1-#12, 1-#12	WH-01 - FIRE SUPPRESSION 129	
					19	1.0	0.1					20	1	20	1-#12, 1-#12, 1-#12	TP-1 - FIRE SUPPRESSION 129	
	VHP-24 - Mezzanine	3-#12, 1-#12, 1-#12	15	3	21			1.0	0.1			22	1	20	1-#12, 1-#12, 1-#12	TP-1 - JAN 124A	
					23					1.0	1.0	24					
	TP-1 - MECH 123	1-#12, 1-#12, 1-#12	20	1	25	0.1	1.0					26	3	20	3-#12, 1-#12, 1-#12	VHP-24 - Mezzanine	
	VHP-18 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	27			1.0	1.0			28					
					29					1.0	0.4	30	2	20	2-#12, 1-#12, 1-#12	VHP-06 Mezzanine	
	RP-02 - FIRE SUPPRESSION 129	1-#12, 1-#12, 1-#12	20	1	31	0.3	0.4					32					
	WH-02 - FIRE SUPPRESSION 129	1-#12, 1-#12, 1-#12	20	1	33			0.6				34					
	VHP-12 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	35					0.7	0.4	36	1	20	1-#12, 1-#12, 1-#12	REC - MEZZANINE	
					37	0.7						38					
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
	SPARE	--	20	1	43	0.0	0.0					44	1	20	--	SPARE	
	SPARE	--	20	1	45			0.0	0.0			46	1	20	--	SPARE	
	SPARE	--	20	1	47					0.0	0.0	48	1	20	--	SPARE	
	SPARE	--	20	1	49	0.0	0.0					50	1	20	--	SPARE	
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						9.2 kVA		8.1 kVA		9.4 kVA							
						78 A		68 A		80 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	25500 VA	80.00%	20400 VA	TOTAL CONNECTED LOAD:	26760 VA
REC	1260 VA	100.00%	1260 VA	TOTAL ESTIMATED DEMAND:	21660 VA
				TOTAL CONNECTED CURRENT:	74 A
				TOTAL ESTIMATED DEMAND CURRENT:	60 A
				25 % ADDITIONAL CAPACITY:	15 A
				TOTAL PANEL CURRENT:	75 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MP2 — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:**
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	VHP-09 - Mezzanine	2-#12, 1-#12, 1-#12	15	2	1	0.5	0.5					2	2	15	2-#12, 1-#12, 1-#12	VHP-09 - Mezzanine	
					3			0.5	0.5			4					
	VHP-06 - Mezzanine	2-#12, 1-#12, 1-#12	15	2	5					0.4	0.4	6	2	15	2-#12, 1-#12, 1-#12	VHP-06 - Mezzanine	
					7	0.4	0.4					8					
	VHP-06 - Mezzanine	2-#12, 1-#12, 1-#12	15	2	9			0.4	0.4			10	2	15	2-#12, 1-#12, 1-#12	VHP-06 - Mezzanine	
					11					0.4	0.4	12					
	VHP-09 - Mezzanine	2-#12, 1-#12, 1-#12	15	2	13	0.5	1.0					14					
					15			0.5	1.0			16	3	15	3-#12, 1-#12, 1-#12	VHP-24 - Mezzanine	
					17					1.0	1.0	18					
	VHP-24 - Mezzanine	3-#12, 1-#12, 1-#12	15	3	19	1.0	1.0					20					
					21			1.0	1.0			22	3	15	3-#12, 1-#12, 1-#12	VHP-24 - Mezzanine	
					23					1.0	1.0	24					
	VHP-24 - Mezzanine	3-#12, 1-#12, 1-#12	15	3	25	1.0	1.0					26					
					27			1.0	1.0			28	3	15	3-#12, 1-#12, 1-#12	VHP-24 - Mezzanine	
					29					1.0	1.0	30					
	VHP-24 - Mezzanine	3-#12, 1-#12, 1-#12	15	3	31	1.0	1.0					32					
					33			1.0	1.0			34	3	20	3-#12, 1-#12, 1-#12	VHP-24 - Mezzanine	
	VHP-18 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	35					1.0	1.0	36					
					37	1.0	1.0					38	2	20	2-#12, 1-#12, 1-#12	VHP-18 Mezzanine	
	VHP-12 - Mezzanine	2-#12, 1-#12, 1-#12	20	2	39			0.7	1.0			40					
					41					0.7	0.7	42	2	20	2-#12, 1-#12, 1-#12	VHP-12 - Mezzanine	
	CU-18 - MDF INDOOR/OUTDOOR UNIT	2-#12, 1-#12, 1-#12	20	2	43	1.0	0.7					44					
					45			1.0	0.2			46	1	20	1-#12, 1-#12, 1-#12	REC - MEZZANINE	
	REC - MEZZANINE	1-#12, 1-#12, 1-#12	20	1	47					0.4	1.0	48	2	20	2-#12, 1-#12, 1-#12	EQUIP	
	SPARE	--	20	1	49	0.0	1.0					50					
	SPARE	--	20	1	51			0.0	0.0			52	1	20	--	SPARE	
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						13.7 kVA		11.9 kVA		12.3 kVA							
						115 A		99 A		103 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	37450 VA	80.00%	29960 VA	TOTAL CONNECTED LOAD:	37990 VA
REC	540 VA	100.00%	540 VA	TOTAL ESTIMATED DEMAND:	30500 VA
				TOTAL CONNECTED CURRENT:	105 A
				TOTAL ESTIMATED DEMAND CURRENT:	85 A
				25 % ADDITIONAL CAPACITY:	21 A
				TOTAL PANEL CURRENT:	106 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: MP4 — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** No — **LOCATION:** MECHANICAL 141
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** DP4

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - OUTDOOR/INDOOR CU-18...	1-#12, 1-#12, 1-#12	20	1	1	0.4	0.4					2	2	20	2-#12, 1-#12, 1-#12	HHP-06	
	CU-18 - MDF INDOOR/OUTDOOR UNIT	2-#10, 1-#10, 1-#10	20	2	3			1.2	0.4			4					
					5					1.2	0.4	6	2	20	2-#12, 1-#12, 1-#12	HHP-09	
	HHP-09	2-#12, 1-#12, 1-#12	20	2	7	0.5	0.4					8					
					9			0.5	1.0			10					
					11					1.0	1.0	12	3	20	3-#10, 1-#10, 1-#10	HHP-24	
	HHP-24	3-#10, 1-#10, 1-#10	20	3	13	1.0	1.0					14					
					15			1.0	1.0			16					
					17					1.0	1.0	18	3	20	3-#10, 1-#10, 1-#10	HHP-24	
	HHP-24	3-#10, 1-#10, 1-#10	20	3	19	1.0	1.0					20					
					21			1.0	1.0			22					
					23					1.0	1.0	24	3	20	3-#12, 1-#12, 1-#12	HHP-24	
	HHP-24	3-#12, 1-#12, 1-#12	20	3	25	1.0	1.0					26					
					27			1.0	1.0			28					
					29					1.0	1.0	30	3	20	3-#12, 1-#12, 1-#12	HHP-24	
	HHP-24	3-#12, 1-#12, 1-#12	20	3	31	1.0	1.0					32					
					33			1.0	1.0			34					
					35					1.0	1.0	36	3	20	3-#12, 1-#12, 1-#12	HHP-24	
	HHP-24	3-#12, 1-#12, 1-#12	20	3	37	1.0	1.0					38					
					39			1.0	2.0			40					
	TEMPORARY HHP-06	2-#12, 1-#12, 1-#12	20	2	41					0.4	2.0	42	3	30	3-#10, 1-#10, 1-#10	VHP-48 - MECHANICAL	
					43	0.4	2.0					44					
	TEMPORARY HHP-09	2-#12, 1-#12, 1-#12	20	2	45			0.5	0.4			46	2	20	2-#12, 1-#12, 1-#12	TEMPORARY HHP-06	
					47					0.5	0.4	48					
	TEMPORARY HHP-06	2-#12, 1-#12, 1-#12	20	2	49	0.4	0.5					50	2	20	2-#12, 1-#12, 1-#12	TEMPORARY HHP-09	
					51			0.4	0.5			52					
	SPARE	--	20	1	53					0.0	0.0	54	1	20	--	SPARE	
						14.8 kVA		15.6 kVA		14.7 kVA							
						124 A		130 A		123 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	44800 VA	80.00%	35840 VA	TOTAL CONNECTED LOAD:	45160 VA
REC	360 VA	100.00%	360 VA	TOTAL ESTIMATED DEMAND:	36200 VA
				TOTAL CONNECTED CURRENT:	125 A
				TOTAL ESTIMATED DEMAND CURRENT:	100 A
				25 % ADDITIONAL CAPACITY:	25 A
				TOTAL PANEL CURRENT:	126 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: DP4 — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECHANICAL 141
AMPERES: 600 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
					1	3.5	8.6					2					
	PP4	3-#1/0, 1-#1/0, 1-#6	150	3	3			3.5	8.9			4	3	150	3-#1/0, 1-#1/0, 1-#6	PP3	
					5					3.6	8.7	6					
					7	14.8	7.1					8					
	MP4	3-#4/0, 1-#4/0, 1-#4	225	3	9			15.6	7.1			10	3	125	3-#1, 1-#1, 1-#6	P-1B PUMP	
					11					14.7	7.1	12					
					13	7.2	9.8					14					
	P-1A PUMP	3-#1, 1-#1, 1-#6	125	3	15			7.2	9.8			16	3	125	3-#1, 1-#1, 1-#6	ERV-2	
					17					7.2	9.8	18					
	HHP-09	2-#12, 1-#12, 1-#12	20	2	19	0.5	0.0					20					
					21			0.5	0.0			22	3	60	--	SPARE	
					23						0.0	24					
	SPARE	--	20	1	25	0.0	0.0					26					
	SPARE	--	20	1	27			0.0	0.0			28	3	60	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30					
					31	0.0	0.0					32					
	SPARE	--	20	3	33			0.0	0.0			34	3	30	--	SPARE	
					35					0.0	0.0	36					
						51.5 kVA		52.6 kVA		51.2 kVA							
						429 A		439 A		426 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	123500 VA	80.00%	98800 VA	TOTAL CONNECTED LOAD:	155267 VA
LTNG	7287 VA	100.00%	7287 VA	TOTAL ESTIMATED DEMAND:	123327 VA
REC	24480 VA	70.42%	17240 VA	TOTAL CONNECTED CURRENT:	431 A
				TOTAL ESTIMATED DEMAND CURRENT:	342 A
				25 % ADDITIONAL CAPACITY:	86 A
				TOTAL PANEL CURRENT:	428 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: ELS1 — **MAINS TYPE:** MCB — **PANEL INTERRUPTING RATING:** 42,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** Mechanical 123
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG - Rm 130, 128, 126, 124, 122,...	1-#12, 1-#12, 1-#12	20	1	1	0.8						2					
	LTNG - Rm 120, 118, 116, 114, 112,...	1-#12, 1-#12, 1-#12	20	1	3			0.4				4					
	LTNG - Rm 108, 106, 104, 109, 107,...	1-#12, 1-#12, 1-#12	20	1	5					0.5		6					
					7							8					
	LTNG - Rm 121(A/B), 119, 117, 115,...	1-#12, 1-#12, 1-#12	20	1	9			0.3	0.2			10	1	20	1-#12, 1-#12, 1-#12	LTNG - C102, 100, 132, 133, 134	
					11						0.2	12	1	20	1-#12, 1-#12, 1-#12	LTNG	
	LTNG	1-#12, 1-#12, 1-#12	20	1	13	0.1						14					
	SPARE	--	20	1	15			0.0	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
					37		0.6					38					
					39				0.5			40	3	60	3-#3, 1-#3, 1-#8	S1B	
					41						0.5	42					
						1.5 kVA		1.3 kVA		1.2 kVA							
						13 A		11 A		10 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	4038 VA	100.00%	4038 VA	TOTAL CONNECTED LOAD:	4038 VA
				TOTAL ESTIMATED DEMAND:	4038 VA
				TOTAL CONNECTED CURRENT:	11 A
				TOTAL ESTIMATED DEMAND CURRENT:	11 A
				25 % ADDITIONAL CAPACITY:	3 A
				TOTAL PANEL CURRENT:	14 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
GENERAL NOTE: PROVIDE LSI ELECTRONIC TRIP TYPE MAIN. PROVIDE LSI ELECTRONIP TRIP TYPE FOR ELS1B BREAKER AT THIS PANEL.

PANELBOARD AND WIRING SCHEDULE

PANEL: ESB1 — **MAINS TYPE:** MCB — **PANEL INTERRUPTING RATING:** 42,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** Mechanical 123
AMPERES: 225 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** NSWB

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC RACK IDF 201	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.2					2	1	20	1-#12, 1-#12, 1-#12	REC RACK IDF 201	
	REC - IDF 201	1-#12, 1-#12, 1-#12	20	1	3			0.4	0.8			4	2	20	2-#12, 1-#12, 1-#12	IDF 201 EQUIP RACK	
	REC - IDF 201	1-#12, 1-#12, 1-#12	20	1	5					0.4	0.8	6					
	REC - IDF 201	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.8					8	2	20	2-#12, 1-#12, 1-#12	IDF 201 EQUIP RACK	
	REC - IDF 201	1-#12, 1-#12, 1-#12	20	1	9			0.4	0.8			10					
	REC - IDF 201	1-#12, 1-#12, 1-#12	20	1	11					0.4	0.4	12	1	20	1-#12, 1-#12, 1-#12	REC - IDF 201	
	REC - IDF 201	1-#12, 1-#12, 1-#12	20	1	13	0.4	0.4					14	1	20	1-#12, 1-#12, 1-#12	REC - IDF 201	
	BAS MECHANICAL 123	1-#12, 1-#12, 1-#12	20	1	15			0.5	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
					37	5.3	2.7					38					
	ESB2	3-#2, 1-#2, 1-#6	60	3	39			5.1	2.6			40	3	100	3-#4/0, 1-#4/0, 1-#2/0	31B	A
					41					5.3	3.0	42					
						10.1 kVA		10.4 kVA		10.0 kVA							
						85 A		87 A		84 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	24620 VA	80.00%	19696 VA	TOTAL CONNECTED LOAD:	30560 VA
REC	5940 VA	100.00%	5940 VA	TOTAL ESTIMATED DEMAND:	25636 VA
				TOTAL CONNECTED CURRENT:	85 A
				TOTAL ESTIMATED DEMAND CURRENT:	71 A
				25 % ADDITIONAL CAPACITY:	18 A
				TOTAL PANEL CURRENT:	89 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
A. PROVIDE CRIMP REDUCER TO THIS 100A/3P BREAKER TO ACCEPT LARGER WIRE SIZE AS SHOWN TO ENSURE INSTALLATION COMPLIES WITH NEC.
GENERAL NOTE: PROVIDE LSI ELECTRONIC TRIP TYPE MAIN. PROVIDE LSI ELECTRONIC TRIP TYPE FOR ESB1B AND ESB2 BREAKER AT THIS PANEL.

PANELBOARD AND WIRING SCHEDULE

PANEL: ESB2 — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 22,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** Space 101
AMPERES: 100 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** ESB1

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC - INDOOR/OUTDOOR CU-24...	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.4					2	1	20	1-#12, 1-#12, 1-#12	REC - IDF AREA B	
	COOLER COMPRESSOR	2-#10, 1-#10, 1-#10	30	2	3			1.3	2.0			4	2	30	2-#10, 1-#10, 1-#10	CU-24 - FOOD STRG INDOOR/OUTDOOR UNIT	
					5					1.3	2.0	6					
	REC - IDF AREA B	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.5					8	1	20	1-#12, 1-#12, 1-#12	IDF AREA B RACK RECEPTACLES	
	SPARE	--	20	1	9			0.0	0.0			10	1	20	--	SPARE	
	SPARE	--	20	1	11					0.0	2.0	12	2	60	2-#6, 1-#6, 1-#10	FREEZER COMPRESSOR	
	30A/2P REC RACK	2-#12, 1-#12, 1-#12	20	2	13	1.9	2.0					14					
					15			1.9	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
						5.3 kVA		5.1 kVA		5.3 kVA							
						44 A		43 A		44 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	14700 VA	80.00%	11760 VA	TOTAL CONNECTED LOAD:	15600 VA
REC	900 VA	100.00%	900 VA	TOTAL ESTIMATED DEMAND:	12660 VA
				TOTAL CONNECTED CURRENT:	43 A
				TOTAL ESTIMATED DEMAND CURRENT:	35 A
				25 % ADDITIONAL CAPACITY:	9 A
				TOTAL PANEL CURRENT:	44 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: ELS1B — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECHANICAL 141
AMPERES: 100 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** ELS1

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	LTNG - MEDIA/LIBRARY	1-#12, 1-#12, 1-#12	20	1	1	0.3	0.1					2	1	20	1-#12, 1-#12, 1-#12	LTNG - Media Center (FIX)	
	LTNG - Area E (FIX)	1-#12, 1-#12, 1-#12	20	1	3			0.2	0.3			4	1	20	1-#12, 1-#12, 1-#12	LTNG - Area E (FIX)	
	LTNG - Area E (FIX)	1-#12, 1-#12, 1-#12	20	1	5					0.3	0.3	6	1	20	1-#12, 1-#12, 1-#12	LTNG - Area E (FIX)	
	LTNG - Rm 138	1-#12, 1-#12, 1-#12	20	1	7	0.3	0.0					8	1	20	--	SPARE	
	SPARE	--	20	1	9			0.0	0.0			10	1	20	--	SPARE	
	SPARE	--	20	1	11					0.0	0.0	12	1	20	--	SPARE	
	SPARE	--	20	1	13	0.0	0.0					14	1	20	--	SPARE	
	SPARE	--	20	1	15			0.0	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	SPARE	--	20	1	19	0.0	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
						0.6 kVA		0.5 kVA		0.5 kVA							
						5 A		4 A		5 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	1637 VA	100.00%	1637 VA	TOTAL CONNECTED LOAD:	1637 VA
				TOTAL ESTIMATED DEMAND:	1637 VA
				TOTAL CONNECTED CURRENT:	5 A
				TOTAL ESTIMATED DEMAND CURRENT:	5 A
				25 % ADDITIONAL CAPACITY:	1 A
				TOTAL PANEL CURRENT:	6 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

PANELBOARD AND WIRING SCHEDULE

PANEL: ESB1B — **MAINS TYPE:** MLO — **PANEL INTERRUPTING RATING:** 10,000
VOLTAGE: 208Y/120V,3P,4W — **SPD:** Yes — **LOCATION:** MECHANICAL 141
AMPERES: 100 A — **MOUNTING:** SURFACE — **SUPPLY FROM:** ESB1

NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCP	P	CKT	A		B		C		CKT	P	OCP	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	REC RACK MDF 137	1-#12, 1-#12, 1-#12	20	1	1	0.2	0.2					2	1	20	1-#12, 1-#12, 1-#12	REC RACK MDF 137	
	REC - MDF 137	1-#12, 1-#12, 1-#12	20	1	3			0.4	1.9			4	2	20	2-#10, 1-#10, 1-#10	30A/2P REC RACK	
	REC - MDF137	1-#12, 1-#12, 1-#12	20	1	5					0.4	1.9	6					
	REC - MDF 137	1-#12, 1-#12, 1-#12	20	1	7	0.4	0.4					8	1	20	1-#12, 1-#12, 1-#12	REC - MDF 137	
	REC - MDF 137	1-#12, 1-#12, 1-#12	20	1	9			0.4	0.0			10	1	20	--	SPARE	
	SPARE	--	20	1	11					0.0	0.8	12	2	20	2-#12, 1-#12, 1-#12	30A/2P REC RACK	
	BAS MECHANICAL 141	1-#12, 1-#12, 1-#12	20	1	13	0.5	0.8					14					
	SPARE	--	20	1	15			0.0	0.0			16	1	20	--	SPARE	
	SPARE	--	20	1	17					0.0	0.0	18	1	20	--	SPARE	
	REC - MDF 137	1-#12, 1-#12, 1-#12	20	1	19	0.4	0.0					20	1	20	--	SPARE	
	SPARE	--	20	1	21			0.0	0.0			22	1	20	--	SPARE	
	SPARE	--	20	1	23					0.0	0.0	24	1	20	--	SPARE	
	SPARE	--	20	1	25	0.0	0.0					26	1	20	--	SPARE	
	SPARE	--	20	1	27			0.0	0.0			28	1	20	--	SPARE	
	SPARE	--	20	1	29					0.0	0.0	30	1	20	--	SPARE	
	SPARE	--	20	1	31	0.0	0.0					32	1	20	--	SPARE	
	SPARE	--	20	1	33			0.0	0.0			34	1	20	--	SPARE	
	SPARE	--	20	1	35					0.0	0.0	36	1	20	--	SPARE	
	SPARE	--	20	1	37	0.0	0.0					38	1	20	--	SPARE	
	SPARE	--	20	1	39			0.0	0.0			40	1	20	--	SPARE	
	SPARE	--	20	1	41					0.0	0.0	42	1	20	--	SPARE	
						2.7 kVA		2.6 kVA		3.0 kVA							
						23 A		21 A		25 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6060 VA	80.00%	4848 VA	TOTAL CONNECTED LOAD:	8220 VA
REC	2160 VA	100.00%	2160 VA	TOTAL ESTIMATED DEMAND:	7008 VA
				TOTAL CONNECTED CURRENT:	23 A
				TOTAL ESTIMATED DEMAND CURRENT:	19 A
				25 % ADDITIONAL CAPACITY:	5 A
				TOTAL PANEL CURRENT:	24 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.

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USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY AND DOCUMENT CORRECT DIMENSION WITH THE ARCHITECT OR ENGINEER. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.

JOB NUMBER	Y23008A/XHER23
DRAWN BY	AP
CHECKED BY	BWR
DATE	09/10/2024

No.	Description	Date
3	PR#01	04/17/2025

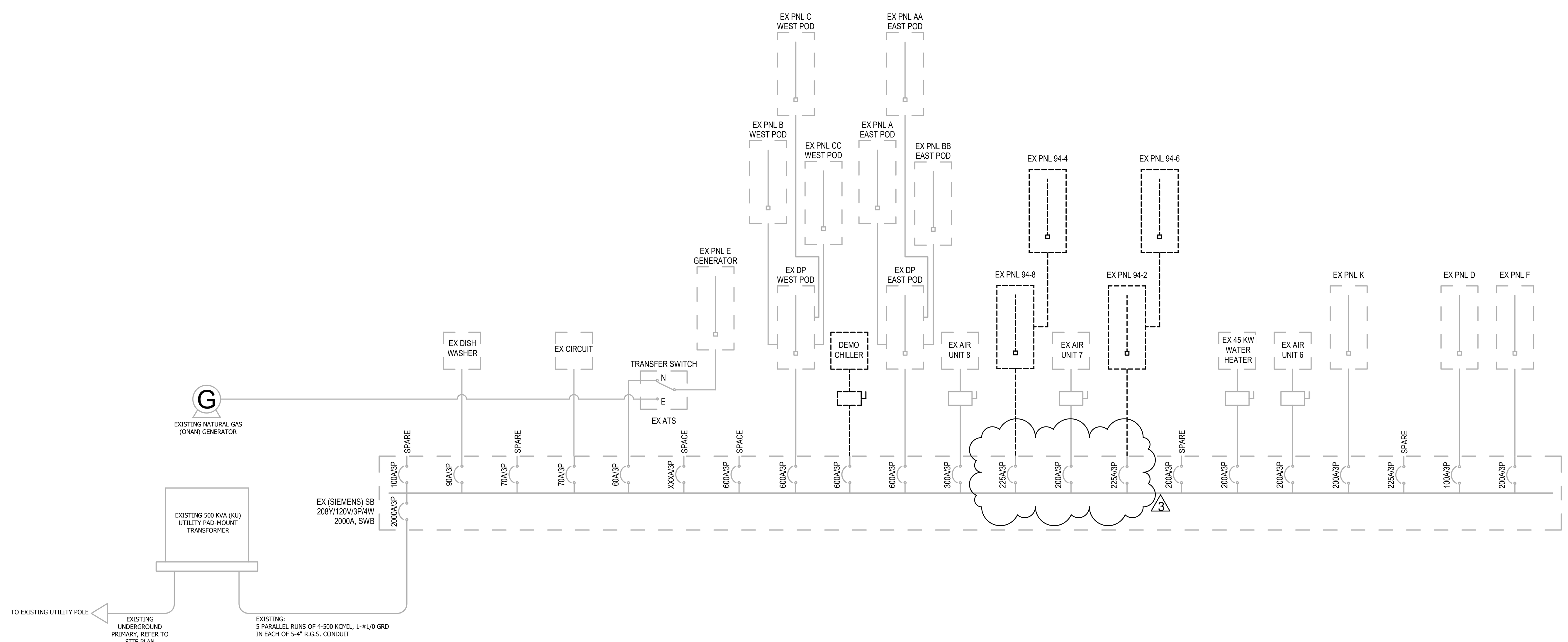
STATE OF KENTUCKY — BRADLEY WYNN REEVES — 20984 — LICENSED PROFESSIONAL ENGINEER

CMTA
115 Memorial Drive
Paducah, KY 42001

HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY
PANEL SCHEDULES

SHEET NUMBER
E0.31

ONE-LINE DEMOLITION TAGGED NOTES



EXIST GEAR ONE-LINE DIAGRAM - PHASE 2 DEMOLITION

2 SCALE: NONE

ONE-LINE DIAGRAM LINETYPE LEGEND		ABBREVIATIONS
NEW	SWB	SWITCHBOARD
NEW ENCLOSURE	DP	DISTRIBUTION PANEL
EXISTING	DM	DIGITAL METER PER SPECIFICATIONS
EXISTING ENCLOSURE	SPD	INTEGRAL MOUNTED SURGE PROTECTION DEVICE
DEMOLITION		

RBS DESIGN GROUP
ARCHITECTURE

CMTA
115 Memorial Drive
Paducah, KY 42001

No.	Description	Date
3	PR#01	04/17/2025

JOB NUMBER Y23036A/XHER023
DRAWN BY AP
CHECKED BY BWR
DATE 09/10/2024

HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY

ELECTRICAL ONE-LINE DIAGRAM DEMOLITION - PHASE 2

SHEET NUMBER

E2.78

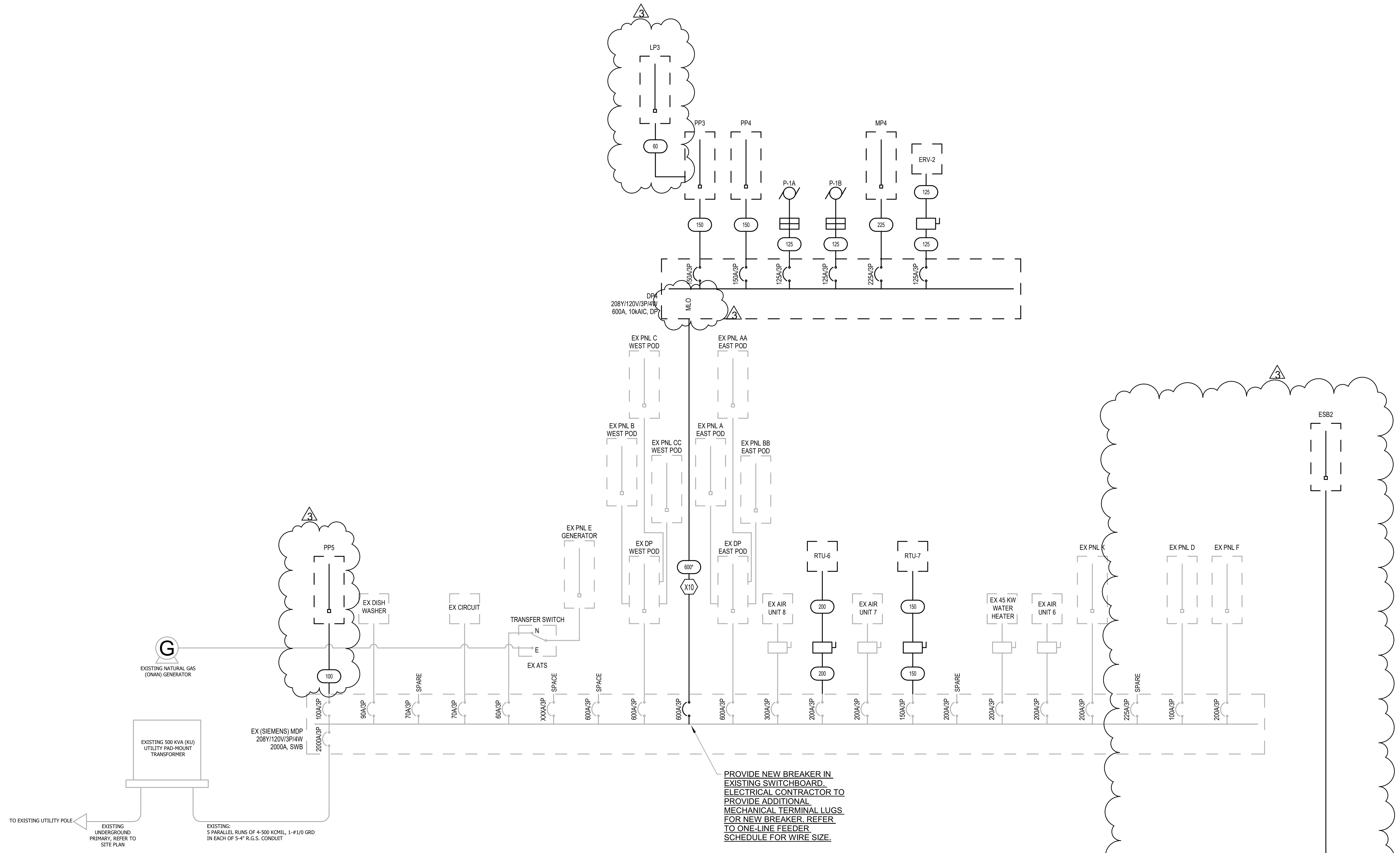
TAGGED NOTES

- X3 PROVIDE PORTABLE GENSET DOCKING STATION. PROVIDE KIRK KEY INTERLOCK WITH ONE INPUT FROM PERMANENT GENERATOR, AND THE OTHER INPUT VIA FEMALE CAMLOCK CONNECTORS FOR FUTURE PORTABLE GENERATOR CONNECTION IN ORDER TO MEET THE REQUIREMENTS OF NEC 700.3F. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- X4 PROVIDE 120V DEDICATED CIRCUIT FOR CONNECTION TO DOCKING STATION BATTERY CHARGER. REFER TO SPECIFICATIONS.
- X5 PROVIDE 208V DEDICATED CIRCUIT FOR CONNECTION TO DOCKING STATION SPACE HEATER. REFER TO SPECIFICATIONS.
- X6 PROVIDE 5#12 CONTROL WIRES BETWEEN GENERATOR COMPONENTS FOR CONTROLS.
- X7 FEEDER SHALL BE ROUTED OUTSIDE OF THE BUILDING UNDERGRADE THEN UNDER SLAB IN ACCORDANCE WITH NEC 2017 700.10(D).
- X9 SURGE SUPPRESSION SHALL BE INSTALLED INTEGRAL TO SWITCHBOARD.
- X10 WIRE UPSIZED TO ACCOUNT FOR VOLTAGE DROP.

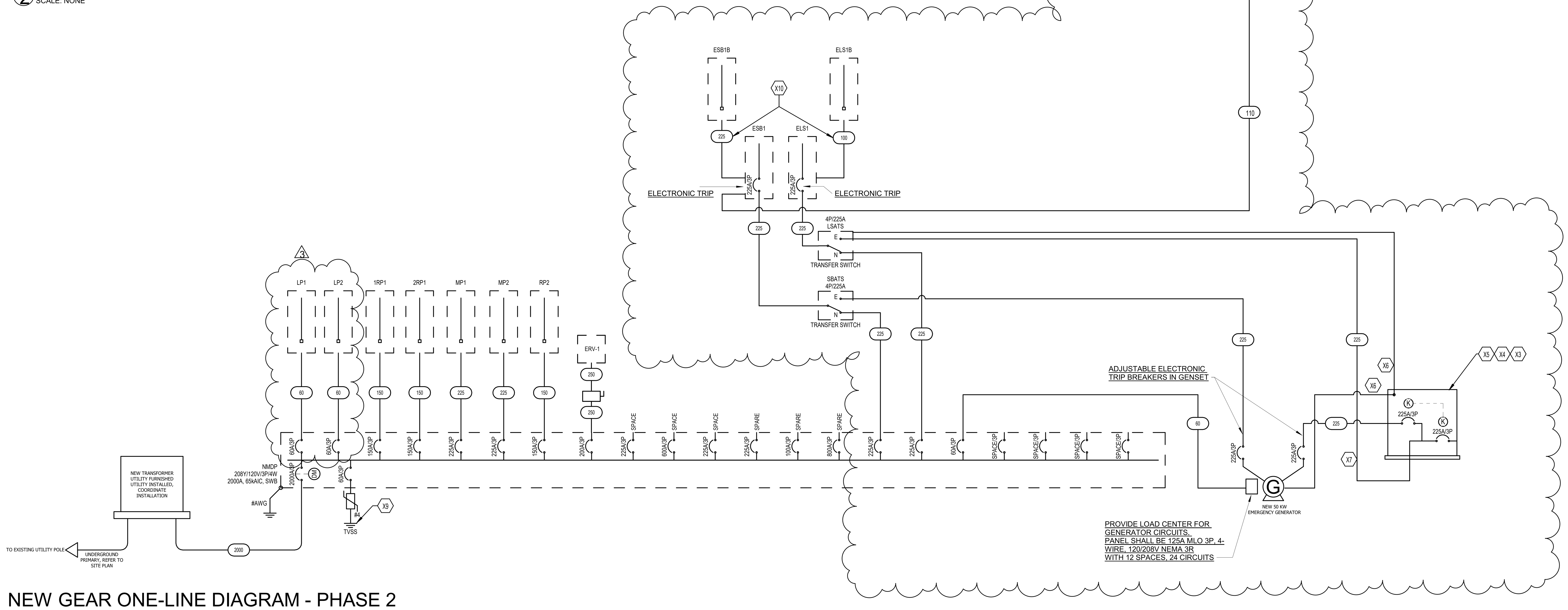
ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:
• TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL.

TAG	OCPD SETTING	WIRE SIZE	EQUIP. GROUND SIZE	CONDUIT SIZE
-	-	-	-	-
20	20/3 (4W)	(4) #12	(1) #12	3/4"
30	30/3 (4W)	(4) #10	(1) #10	3/4"
50	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
60	60/3 (4W)	(4) #6	(1) #10	1"
80	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
100	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
110	110/3 (4W)	(4) #2	(1) #6	1-1/2"
125	125/3 (4W)	(4) #1	(1) #6	1-1/2"
150	150/3 (4W)	(4) #1/0	(1) #6	2"
200	200/3 (4W)	(4) #3/0	(1) #6	2"
225	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
250	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
600	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
600*	600/3 (4W)*	3 RUNS OF (4) - #350 KCMIL/PHASE	(1) #2/0	3"
2000	2000/3 (4W)	6 RUNS OF (4) - #500 KCMIL/PHASE	(1) #250 KCMIL	3-1/2"
EX	EXISTING TO REMAIN			



EXIST GEAR ONE-LINE DIAGRAM - PHASE 2 NEW WORK
2 SCALE: NONE



NEW GEAR ONE-LINE DIAGRAM - PHASE 2 NEW WORK
1 SCALE: NONE

ONE-LINE DIAGRAM LINETYPE LEGEND	ABBREVIATIONS	
NEW	SWB	SWITCHBOARD
NEW ENCLOSURE	DP	DISTRIBUTION PANEL
EXISTING	DM	DIGITAL METER PER SPECIFICATIONS
EXISTING ENCLOSURE	SPD	INTEGRAL MOUNTED SURGE PROTECTION DEVICE
DEMOLITION		

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ARCHITECTURE

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HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY

NEW ELECTRICAL ONE-LINE DIAGRAM - PHASE 2

JOB NUMBER Y23036A
DRAWN BY AP
CHECKED BY BWR
DATE 09/10/2024

SHEET NUMBER
E2.88

ELECTRICAL DEMOLITION PLAN - PHASE 3 - AREA B

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

0 2' 4' 8' 16' 24' 32'

ELECTRICAL DEMOLITION NOTES:

A. DOTTED BLACK LINES INDICATE ITEMS FOR REMOVAL (UON), DOTTED GREY LINES INDICATE ITEMS FOR TEMPORARY WORK (UON), AND SOLID HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN.

B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.

C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.

D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).

E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.

F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.

G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.

H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.

I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.

J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.

K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.

M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

N. CONTRACTOR TO VERIFY THAT THERE ARE NO ELECTRICAL CIRCUITS IN CHASES BEING REMOVED UNDER DEMOLITION WHICH REMAIN IN SERVICE AND CANNOT BE REMOVED. SHOULD SUCH CIRCUITS BE ENCOUNTERED, THE CONTRACTOR IS TO REROUTE AND RECONNECT AS REQUIRED TO MAINTAIN SERVICE.

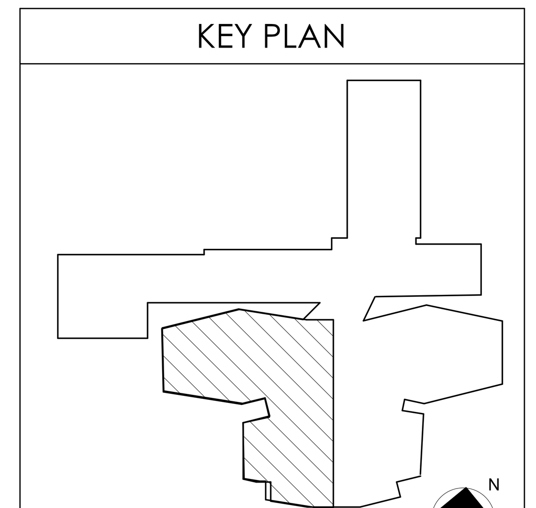
TAGGED NOTES

##

ED25	ELECTRICAL CONTRACTOR TO ENSURE ANY ELECTRICAL FEEDERS ARE SAFELY DISCONNECTED FOR ALL FIXTURES AND EQUIPMENT. THIS WHOLE GREYED REGION IS TO BE DEMOLISHED COMPLETELY. REFER TO ARCHITECTURAL PLANS FOR PHASING.
ED58	REFER TO ONE-LINE DIAGRAM AND ELECTRICAL SITE UTILITIES FOR MORE INFORMATION ON PHASING FOR THE SCOPE OF EXISTING KU TRANSFORMER AND EXISTING GENERATOR.
ED60	COORDINATE WORK WITH OWNER. ELECTRICAL CONTRACTOR SHALL RELINQUISH ALL ELECTRICAL PANELS, FIRE ALARM PANELS AND DEVICES, WIRELESS ACCESS POINTS, AND SECURITY CAMERAS TO OWNER.
ED61	REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION ON PHASING FOR THE SCOPE OF EXISTING TRANSFER SWITCH. DEMOLITION WORK SHALL NOT OCCUR UNTIL NEW GENERATOR, NEW WIRING AND CONDUIT, AND NEW TRANSFER SWITCHES HAVE BEEN INSTALLED.

3

KEY PLAN



SCALE: NTS

RBS DESIGN GROUP
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723 Harvard Drive, Owensboro, KY 42301
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JOB NUMBER	Y23008A/ XHER23
DRAWN BY	AP
CHECKED BY	BWR
DATE	09/10/2024

No.	Description	Date
2	Addendum 4	12/04/2024
3	PR#01	04/17/2025

STATE OF KENTUCKY
BRADLEY WYNN REEVES
28641
LICENSED PROFESSIONAL ENGINEER

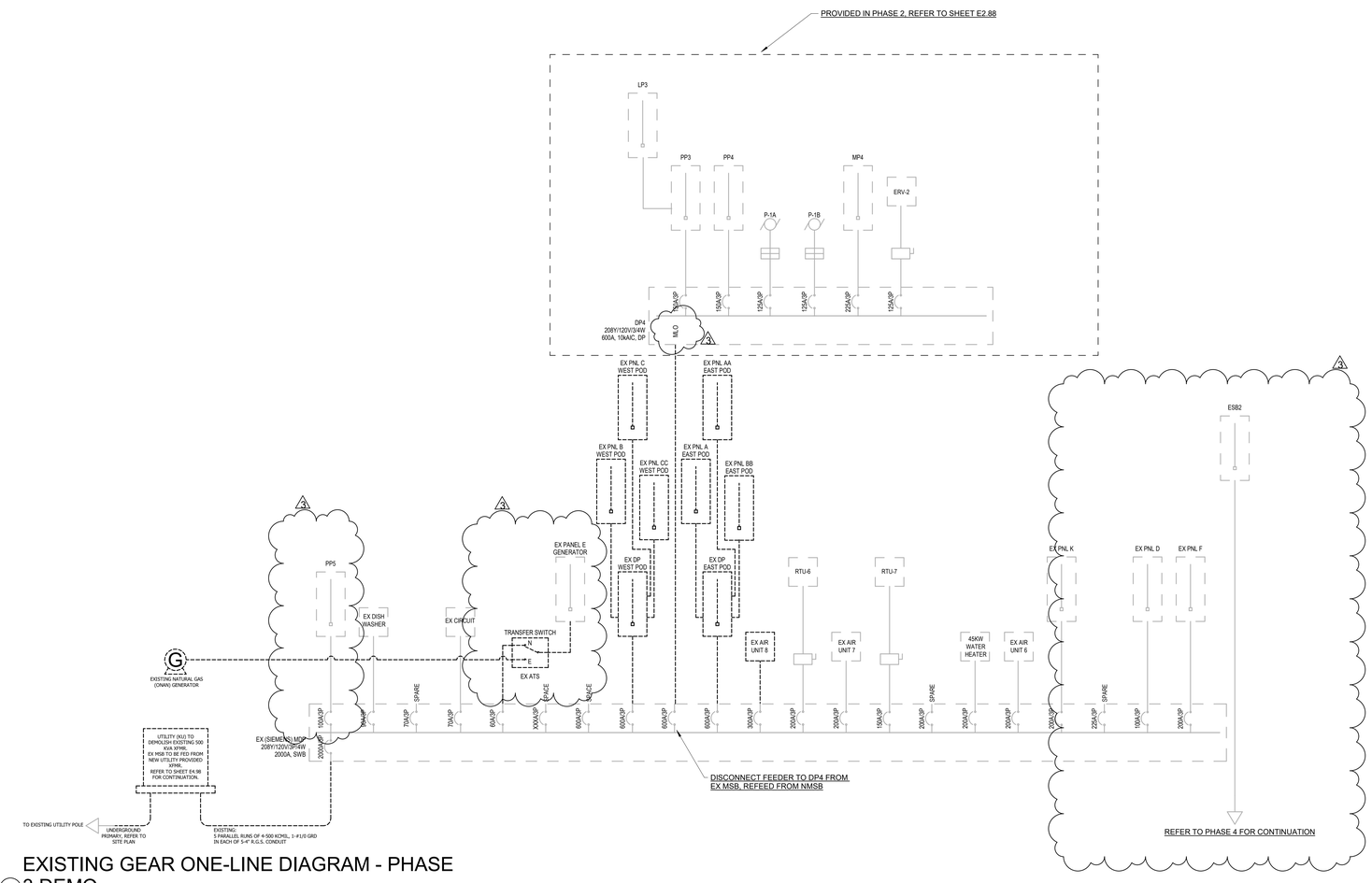
CMTA
115 Memorial Drive
Paducah, KY 42001

HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY

ELECTRICAL DEMOLITION PLAN - PHASE 3 - AREA B

SHEET NUMBER

E3.11



1 EXISTING GEAR ONE-LINE DIAGRAM - PHASE 3 DEMO
SCALE: NONE

ONE-LINE DIAGRAM LINETYPE LEGEND	ABBREVIATIONS	
NEW	SWB	SWITCHBOARD
NEW ENCLOSURE	DP	DISTRIBUTION PANEL
EXISTING	DM	DIGITAL METER PER SPECIFICATIONS
EXISTING ENCLOSURE	SPD	INTEGRAL MOUNTED SURGE PROTECTION DEVICE
DEMOLITION		

RBS DESIGN GROUP
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PLANS SEALS PROVIDED
THE SEAL(S) APPEARING ON THESE PLANS AND SPECIFICATIONS WERE AFFIXED BY THE LICENSED PROFESSIONAL(S) WHOSE NAME(S) APPEAR ON THESE PLANS AND SPECIFICATIONS.

JOB NUMBER	Y23/00/A/X/HER23
DRAWN BY	JP
CHECKED BY	BWR
DATE	09/10/2024

No.	Description	Date
3	PR#01	04/17/2025

STATE OF KENTUCKY
BRADLEY WITTIN
PE-15
PROFESSIONAL ENGINEER

CMTA
115 Memorial Drive
Paducah, KY 42001

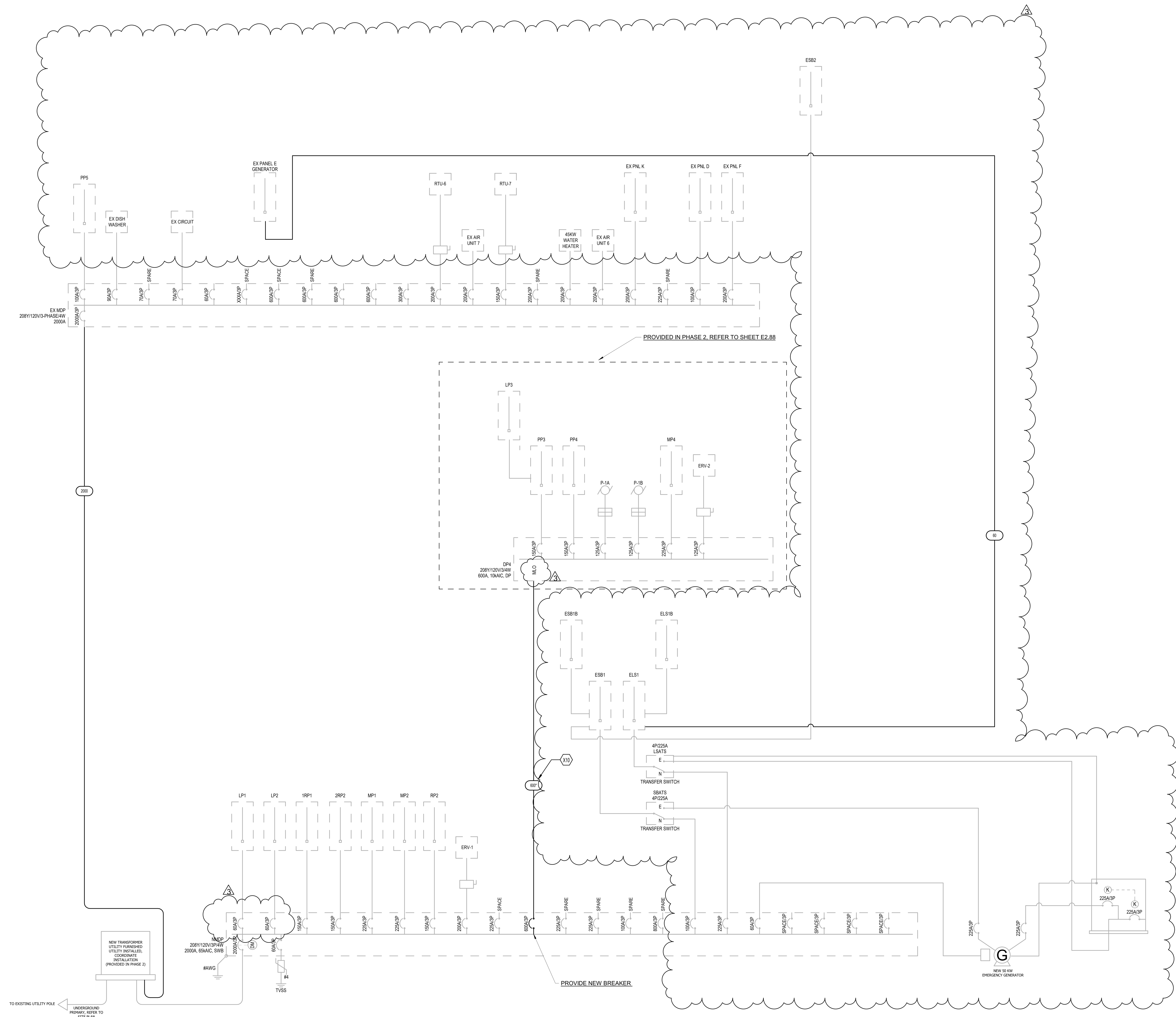
HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY
ELECTRICAL ONE-LINE DIAGRAM DEMOLITION - PHASE 3

SHEET NUMBER
E3.78

ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:
• TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL.

TAG	OCPD SETTING	WIRE SIZE	EQUIP. GROUND SIZE	CONDUIT SIZE
-	-	-	-	-
20	20/3 (4W)	(4) #12	(1) #12	3/4"
30	30/3 (4W)	(4) #10	(1) #10	3/4"
50	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
60	60/3 (4W)	(4) #6	(1) #10	1"
80	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
100	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
110	110/3 (4W)	(4) #2	(1) #6	1-1/2"
125	125/3 (4W)	(4) #1	(1) #6	1-1/2"
150	150/3 (4W)	(4) #1/0	(1) #6	2"
200	200/3 (4W)	(4) #3/0	(1) #6	2"
225	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
250	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
600	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
600*	600/3 (4W)*	3 RUNS OF (4) - #350 KCMIL/PHASE	(1) #2/0	3"
2000	2000/3 (4W)	6 RUNS OF (4) - #500 KCMIL/PHASE	(1) #250 KCMIL	3-1/2"
EX	EXISTING TO REMAIN			



EXISTING AND NEW GEAR ONE-LINE DIAGRAM - PHASE 4 NEW

2 SCALE: NONE

ONE-LINE DIAGRAM LINETYPE LEGEND
NEW
NEW ENCLOSURE
EXISTING
EXISTING ENCLOSURE
DEMOLITION

ABBREVIATIONS	
SWB	SWITCHBOARD
DP	DISTRIBUTION PANEL
DM	DIGITAL METER PER SPECIFICATIONS
SPD	INTEGRAL MOUNTED SURGE PROTECTION DEVICE

RBS DESIGN GROUP
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No.	Description	Date
3	PR#01	04/17/2025

STATE OF KENTUCKY BRADLEY WYNN REEVES 20984 LICENSED PROFESSIONAL ENGINEER

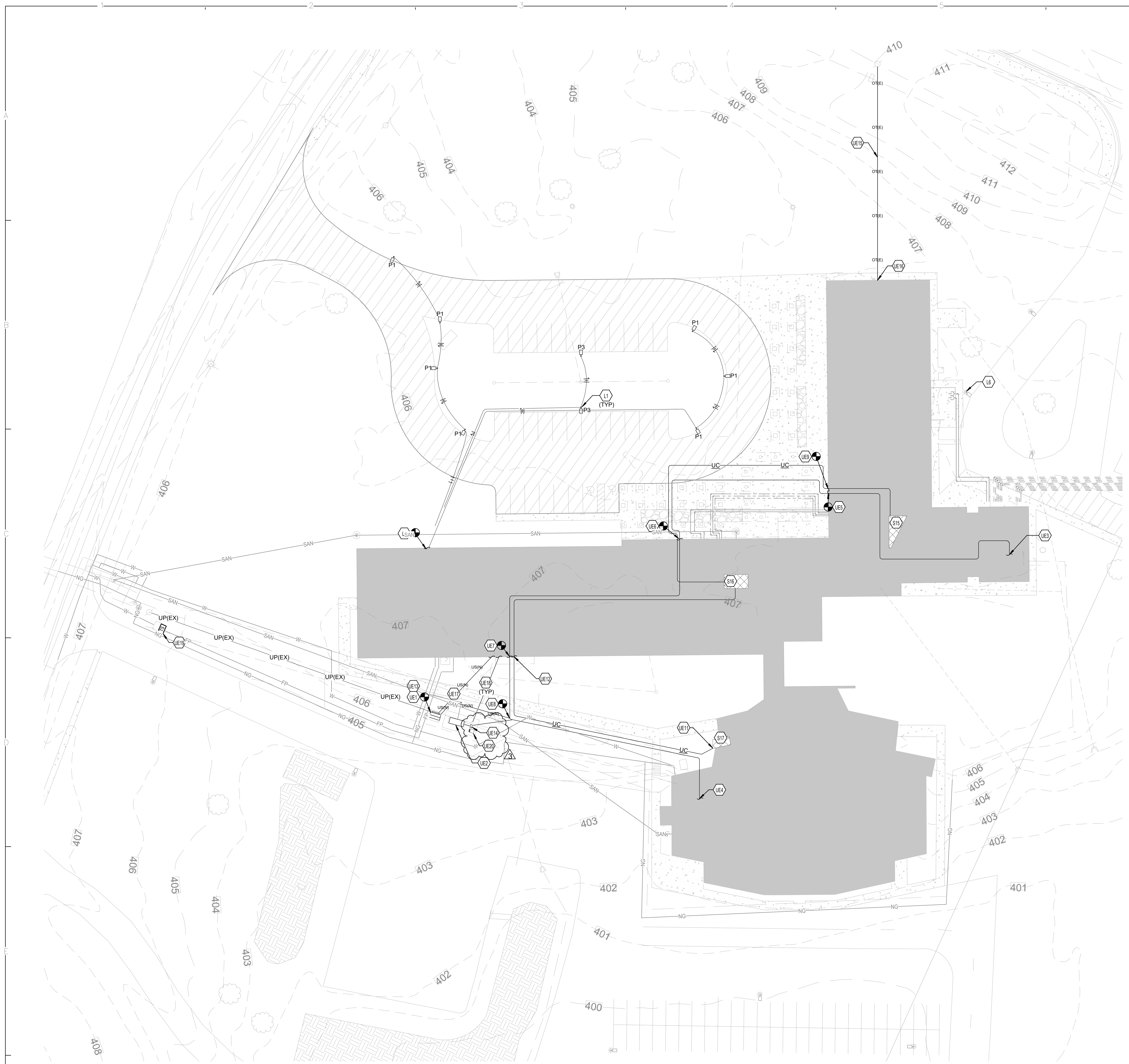
CMTA
115 Memorial Drive
Paducah, KY 42001

HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY

NEW ELECTRICAL ONE-LINE DIAGRAM - PHASE 4

SHEET NUMBER

E4.88



1 ELECTRICAL SITE UTILITY NEW WORK PLAN
SCALE: 1" = 30'-0"
0 15' 30' 60' 90' 120'

TAGGED NOTES

##

L1	PROVIDE NEW SITE LIGHTING WITH 20' POLES IN PHASE 4. REFER TO ELECTRICAL PHASING PLANS AND ELECTRICAL DETAILS FOR MORE INFORMATION. REFER TO TAGGED NOTE L7 FOR CONTINUATION.
L6	COORDINATE WORK WITH ALL TRADES. REFER TO MECHANICAL SITE UTILITY PLAN FOR COORDINATING UNDERGROUND ELEVATION FOR NEW HVAC UNIT AND MECHANICAL PIPING, UNDERGROUND FEEDER, GEO PIPING, ETC. OF EXISTING AND NEW AND CONTRACTOR TO MAKE NECESSARY ADJUSTMENTS/EXTENSIONS TO THIS EXISTING SITE LIGHTING POLE THAT REMAINS. PROVIDE EMERGENCY CIRCUIT TO SITE LIGHT FIXTURES P3 BACK TO NEW PANEL EP1.
L7	FEEDER OF NEW SITE LIGHTING, AT THIS POINT INDICATED, SHALL BE RUN INSIDE WALL CHASE. REFER TO FIRST FLOOR PLAN FOR LOCATION. FEEDER CIRCUIT FED FROM NEW PANEL LP1 (REFER TO PANEL SCHEDULES FOR MORE INFORMATION) REFER TO LUMINAIRE SCHEDULE FOR MORE DETAILS FOR NEW SITE LIGHTING FIXTURES.
S15	LOCATION OF NEW MDF/IDF-A 137, ADDED IN PHASE 2, ADJACENT TO MEDIA LIBRARY. REFER TO ELECTRICAL FLOOR PLANS FOR PHASING AND DETAILS.
S16	LOCATION OF NEW IDF 201, ADDED IN PHASE 2, LOCATED IN THE MEZZANINE ABOVE FIRST FLOOR. REFER TO ELECTRICAL FLOOR PLANS FOR PHASING AND DETAILS.
S17	LOCATION OF NEW IDF, ADDED IN PHASE 2, LOCATED IN THE EXISTING GYM AREA. REFER TO ELECTRICAL FLOOR PLANS FOR PHASING AND DETAILS.
UE1	NEW UTILITY TRANSFORMER PROVIDED BY SITE ELECTRICAL UTILITIES (KU) IN PHASE 2 NEW. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION.
UE2	PROVIDE NEW 50 kW NATURAL GAS EMERGENCY GENERATOR SET IN PHASE 2 NEW. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION. PAD SHALL EXTEND A MINIMUM OF 6" PAST ALL SIDES OF EQUIPMENT. COORDINATE FINAL LOCATION OF GENERATOR WITH CIVIL DRAWINGS.
UE3	CONTRACTOR TO PROVIDE FEEDERS FOR NEW DISTRIBUTION PANEL DP4 (REFER TO ELECTRICAL FLOOR PLANS FOR MORE DETAILS). THESE RUN OF FEEDERS SHALL BE COORDINATED WITH ALL TRADES. FEEDERS SHALL BE TEMPORARILY FED FROM EXISTING SWITCHBOARD IN PHASE 2 THEN TERMINATE TO NEW SWITCHBOARD. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION. REFER TO TAGGED NOTE UE5 FOR CONTINUATION.
UE4	FEEDERS TO BE TEMPORARILY FED FROM EXISTING MAIN SWITCHBOARD (SIEMENS) IN PHASE 2. REFER TO TAGGED NOTE UE8 FOR CONTINUATION.
UE5	FEEDERS SHALL RUN ABOVE CEILING UP AT THIS POINT INDICATED. FEEDERS SHALL TURN DOWN ALONG THE INTERIOR WALL OF THE CLASSROOM (REFER TO ELECTRICAL FLOOR PLANS FOR MORE DETAILS). FEEDERS SHALL THEN STUB OUT TO EXTERIOR AND TRENCH ALONG THE CONTINUATION OF THE PATHWAY. REFER TO TAGGED NOTE UE6 FOR CONTINUATION.
UE6	FEEDERS AT THIS POINT INDICATED SHALL STUB IN AND RUN ALONG THE CHASE WALL (REFER TO ELECTRICAL FLOOR PLANS FOR MORE DETAILS). FEEDERS SHALL THEN RUN ABOVE MEZZANINE AS SHOWN ALONG THE CONTINUATION OF THE PATHWAY. COORDINATE ALL WORK OF RUN OF FEEDERS WITH ALL TRADES: PIPES, DUCTS, ETC. REFER TO TAGGED NOTE UE7 FOR CONTINUATION.
UE7	FEEDERS AT THIS POINT INDICATED SHALL TURN DOWN TO LOCATION OF NEW MAIN SWITCHBOARD. ELECTRICAL CONTRACTOR TO REFER TO TAGGED NOTE UE4 FOR TEMPORARY FEEDING FROM THE EXISTING MAIN SWITCHBOARD (SIEMENS). ONCE NEW SWITCHBOARD IS FULLY INSTALLED, ELECTRICAL CONTRACTOR SHALL HAVE RUN OF FEEDERS TAP NEW SWITCHBOARD. COORDINATE ALL WORK OF NEW TRANSFORMER WITH KU. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION.
UE8	ONCE NEW SWITCHBOARD IS FULLY INSTALLED AND RUN OF FEEDERS TAP TO NEW SWITCHBOARD, ELECTRICAL CONTRACTOR TO DEMOLISH FEEDER WIRES (IN PHASE 3) AND USE UNDERGROUND CONDUIT STARTING AT THIS POINT INDICATED AND SHALL RUN NEW FEEDER WIRES THAT TAPS TO NEW TRANSFORMER TO FEED EXISTING MAIN SWITCHBOARD (SIEMENS). ELECTRICAL CONTRACTOR TO TAP NEW UTILITY TRANSFORMER AND FEED EXISTING MAIN SWITCHBOARD IN PHASE 3. COORDINATE ALL WORK OF NEW TRANSFORMER WITH KU. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION.
UE9	TURN COMMUNICATIONS CONDUIT UP AT BUILDING EXTERIOR, PROVIDE LB CONDUIT BODY AND EXTEND FEEDERS ABOVE CEILING TO MDF 137.
UE11	TURN COMMUNICATIONS CONDUIT UP AT BUILDING EXTERIOR, PROVIDE LB CONDUIT BODY AND EXTEND FEEDERS ABOVE CEILING TO IDF.
UE12	TURN COMMUNICATIONS CONDUIT UP IN MECH 123 THEN ROUTE ABOVE CEILING TO MEZZANINE IDF 201.
UE13	UNDERGROUND PRIMARY FEEDER SHALL TERMINATE TO NEW LOCATION OF NEW TRANSFORMER PROVIDED BY KU AT POINT INDICATED.
UE14	PROVIDE PAD-MOUNT GENSET DOCKING STATION WITH GENERATOR. REFER TO ONELINE DIAGRAM AND TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
UE15	LOCATION AND ROUTING OF THE EXISTING OVERHEAD FIBER OPTIC UTILITY FEED. UTILITY FIBER OPTIC CABLING SHALL BE EXISTING TO REMAIN. REFER TO SYSTEMS PLANS AND THE TELECOMMUNICATIONS RISER DIAGRAM FOR ADDITIONAL INFORMATION.
UE16	BUILDING SERVICE ENTRANCE LOCATION OF THE UTILITY FIBER OPTIC SERVICE. ALL WORK INVOLVING THE EXISTING FIBER OPTIC UTILITY SHALL BE COORDINATED WITH THE TELECOMM. UTILITY PRIOR TO CONSTRUCTION. PROTECT DURING CONSTRUCTION.
UE17	PROVIDE UNDERGROUND SECONDARY FEEDERS FROM NEW TRANSFORMER LOCATION TO NEW BUILDING SWITCHBOARD. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
UE18	REFER TO THE ONE-LINE DIAGRAM FOR SIZE OF WIRING AND CONDUIT.
UE19	PROVIDE TAMPER SWITCH FOR FIRE PROTECTION VAULT. EXTEND FIRE ALARM WIRING IN 1" CONDUIT TO FIRE ALARM CONTROL PANEL.
UE20	PROVIDE 125A LOADCENTER FOR GENERATOR LOADS. REFER TO ONE-LINE DIAGRAM FOR MORE INFORMATION. PROVIDE UNISTRUT MOUNTING FOR THIS PANEL.

3

ELECTRICAL SITE NOTES:

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.
D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.
G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE.
H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.
J. CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.
K. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.
L. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.
M. COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE.
N. PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT, AND THE BUILDING OPERATORS AT LEASTE ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
O. THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.
P. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
Q. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES. THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.
R. CONTRACTOR SHALL PAY ALL TAP FEES, UTILITY COST, UTILITY CONNECTION COSTS, METER FEES, EXTENSION AND DEVELOPMENT CHARGES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
S. THE UTILITY WILL PROVIDE STAKING DATA INCLUDING NORTHING AND EASTING DATA AS REQUIRED OR SHOWN ON DRAWINGS.
T. REATTACH ALL TAPS AND TRANSFORMERS AS TO MAINTAIN EXISTING PHASE CONNECTIONS.
U. CONTRACTOR RESPONSIBLE FOR MAINTAINING DOWNSTREAM SERVICE FROM REMOVED EQUIPMENT ON SITE. INCLUDING BUT NOT LIMITED TO SITE LIGHTING, TRANSFORMERS, ETC.
V. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
W. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES/FIXTURES/ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON).
X. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
Y. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.

SITE UTILITIES LEGEND

XXX	NEW PIPING - (XXX) DENOTES SYSTEM
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
A(XXX)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OSL	OVERHEAD STREET LIGHT
OTS	OVERHEAD TRAFFIC SIGNAL
OT	OVERHEAD TELECOMMUNICATIONS
OF	OVERHEAD FIBER OPTIC
OTV	OVERHEAD CATV
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
UE	UNDERGROUND ELECTRICAL
USL	UNDERGROUND STREET LIGHT
UTS	UNDERGROUND TRAFFIC SIGNAL
UT	UNDERGROUND TELECOMMUNICATIONS
UF	UNDERGROUND FIBER OPTIC
UTV	UNDERGROUND CATV

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

UTILITY COMPANY CONTACTS:

POWER:		
KU	Tyler Locke	(270) 803-9315
FIBER:		
HENDERSON MUNICIPAL POWER & LIGHT	Chad Kietzman	(270) 826-2726
FIRE CHIEF:		
HENDERSON FIRE DEPARMENT	Josh Dixon	(270) 831-1270

IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDINANCE AND MUNICIPAL REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.

RBS DESIGN GROUP
ARCHITECTURE
723 Harvard Drive, Owensboro, KY 42301
Phone: (270) 683-1158 Fax: (270) 683-2446
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CHECKED BY	BWR
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No.	Description	Date
3	PR#01	04/17/2025

STATE OF KENTUCKY
BRADLEY WYNN REEVES
20984
LICENSED
PROFESSIONAL ENGINEER

CMTA
A Legence Company
115 Memorial Drive
Paducah, KY 42001

HENDERSON COUNTY SCHOOLS
EAST HEIGHTS ELEMENTARY SCHOOL RENOVATION
HENDERSON, KENTUCKY
ELECTRICAL SITE UTILITY NEW WORK PLAN

SHEET NUMBER
EU1.2

FACPAC Contract Change Order Supplemental Information Form (Ref# 62436)

Form Status: Saved

Tier 1 Project: East Heights Elementary Renovations

BG Number: 24-164 District: Henderson County (HB678) (251)

Status: Active Phase: Project Initiation (View Checklist)

Contract: IES KENTUCKY LLC, 0014, ELECTRICAL

Type: CM Bid Package Proposed

Change Order Number	14-1
Time Extension Required	No
Date Of Change Order	6/3/2025
Change Order Amount To Date	Increase

Construction Contingency

Calculations below are project wide. Remaining negative Construction Contingency may require the submission of a revised BG1.

Current Approved Amount	$1,065,424.21
Net Approved COs	$0.00
Remaining After Approved COs	$1,065,424.21
Net All COs	$7,434.00
Remaining After All COs	$1,057,990.21

This Requested Change Order Amount +/-	$7,434.00
Change In A/E Fee This Change Order +/-	$401.44
Change In CM Fee This Change Order +/-	$141.25
Remaining Construction Contingency Balance	$1,057,447.52
Contract Change Requested By	Architect/Engineer
Contract Change Reason Code	Reduction of Scope

Change Order Description And Justification

Various distrbuition and panelboard changes.

Cost Benefit To Owner

Enhanced electrical system.

Contract unit prices have been utilized to support the cost associated with this change order.	No

Detailed Cost Breakdown

Contract unit prices have not been utilized, provide a detailed cost breakdown which separates labor, material, profit and overhead.

Detail Item	Amount	Percent of Total
Labor	$0.00	0.00%
Materials	$6,758.00	90.91%
Profit and Overhead	$676.00	9.09%
Bond Insurance	$0.00	0.00%
Cost Breakdown Total:	$7,434.00	

Cost for this Change Order supported by an alternate bid or competitive price quote No

Explain Why

PR was isued to the electrical contractor for this project after bid.

Change Order Supplemental Information Form Signature Page (Online Form Ref# 62436)

Architect	Date
Construction Manager	Date
Finance Officer	Date
Local Board of Education Designee	Date

1550 E 11th St. Owensboro, KY 42303

CHANGE ORDER

Attn: Codell Construction

Re: East Heights PR1

The following changes have been made.

1. Credit change feed for LP3
2. Credit change feed for LP1
3. Credit change feed for LP2
4. Increase feed for the generator dock station
5. Increase feed for LSATS from dock station
6. Increase feed for SBATS from generator
7. Increase feed for LSATS from NMDP
8. Increase feed for SBATS from NMDP
9. Increase feed for ELS1 from LSATS
10. Increase feed for SBATS to ESB1
11. Credit changes for ELS1B from ELS1
12. Credit changes for ESB1B from ESB1
13. Credit changes for ESB2 from ESB1
14. Change ELS1 feed

Labor: $0
Material: $6,758
OHP: $676
Total Add: $7,434

Eckart Supply DPO gear material add - $9,815.79
Cummins DPO generator add - $1,825

Thank You

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