Primary Engineering, Inc.
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MICHAEL E. LUBBEHUSEN
REGISTERED
No. PE10302397
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Addendum: 1

Date: **1/8/2026**

Project: **FWCS 2026 Electrical Projects**

Comm #: **25778**

The following items shall be incorporated into the specifications and drawings and are considered to be integral to the bid documents for the project. Acknowledgement of receipt of this addendum is required on the bid form.

Item #1: General Clarifications.

- **A.** Refer to attached Pre-bid agenda and information
- **B.** Refer to attached Sign-In sheet.

Item #2: Drawing Sheet E-001, ELECTRICAL INFORMATION SHEET

- **A.** Panel schedule for new Franke Park panel EDPL added.

FWCS 2026 Electrical Projects

Fort Wayne Community Schools
Facilities Department

2026 Electrical Projects

Pre-Bid Meeting
December 07, 2026

FWCS 2026 Electrical Projects

Travis Searles

FWCS Coordinator of Capital Projects

Travis.Searles@fwcs.k12.in.us

Braxton Riley

Electrical Engineer

Primary Engineering, Inc.

briley@primary-eng.com

Corey Townsend

Electrical Designer

Primary Engineering, Inc.

ctownsend@primary-eng.com

FWCS 2026 Electrical Projects

- Bids are due on January 21, 2026 at 2:00 pm local time. Deliver to 1519 Catalpa St, Fort Wayne, IN to the Facilities Reception Desk (Sarah) via the West Entry #1.
- Submit all bid forms in duplicate and include all forms filled out, including Form 96, E-Verify, E/M/W Owned Business, Subcontractor/Vendor List, Iran Certification
- The apparent low bidder will be contacted and must submit the following items within 48 hours of the bid opening:
    - A complete list of all sub contractors.
    - A complete list of all material suppliers.

FWCS 2026 Electrical Projects

- 000126 – Background Check Requirement
- 004343 – Responsible Bidder Requirements
  - Contractors must certify that they are in compliance with the Indiana Minimum Wage Law. This is required for all subs with $300k or more in work.
- 000131 – FWCS Document Management Procore
- 000127 – Smoking Policy
- 000129 – Dust Control
- 000133 – Liquidated Damages

FWCS 2026 Electrical Projects

Construction Start Date: **May 22, 2026, Last day of School**
(2nd Shift work permissible during school, coordinate with owner)

Substantial Completion Date: **July 22, 2026**

Final Completion Date: **July 29, 2026**

Shop Drawing Review: **(30) days from School Board approval**

FWCS 2026 Electrical Projects

Estimated cost:	**$193,000**
Bid Bond**:**	**5%**
Perf. Bond**:**	**100%**
Allowance:	**$7,500 Contingency (included in bid)**
Permits:	Include all construction permits in bid

FWCS 2026 Electrical Projects

Procedure for Visiting the Schools:

- Check in at main office
- During school hours, avoid arrival and dismissal times.
  - Elementary Schools: 8:50 a.m. through 3:20 p.m.
  - Middle Schools: 7:20 a.m. through 2:25 p.m.
  - High Schools: 7:20 a.m. through 2:25 p.m.

FWCS 2026 Electrical Projects

- Project Management will be done using FWCS's Procore Online system to submit and track all submittals, RFI's, PR's, etc. If you are not familiar with it, there are training classes at FWCS periodically and you will need to use this tool.
- Dust control and housekeeping Spec Section 000129. You must use wet cutting methods, use dust control partitions, protect smoke detectors, seal doors/louvers/diffusers, and do not use FWCS trash cans/dumpsters.
- Disposal of scrap metal is the responsibility of the contractor.

FWCS 2026 Electrical Projects

- Hot work permits are required for any grinding, welding, torching, etc. and must have a fire watch person observing. This is not another person in the room working, but another person observing the hot work and nothing else.
- Construction staging/storage allowed on site as long as it does not obstruct doors/corridors. C.O.I.'s are required for material stored off-site.

FWCS 2026 Electrical Projects

- All requests for clarification or material additions to specs shall be submitted via email to briley@primary-eng.com and/or ctownsend@primary-eng.com no later than 12:00 Noon on January 14, 2026. This is the cut off for questions that can be answered via addendum.

- Addendum #1: January 08, 2026
- Addendum #2: January 15, 2026
- Bids due: January 21, 2026

FWCS 2026 Electrical Projects

Franke Park Elementary School

- Removal of existing generator, transfer switches, electrical panel, and boiler room lighting.
- New pin & sleeve receptacle, switches, panel, and boiler room lighting.

South Side High School

- Removal of existing lighting and controls in multiple classrooms and cafeteria.
- New lighting and controls in multiple classrooms and cafeteria.

FWCS 2026 Electrical Projects

Towles Intermediate School

- Removal of gymnasium lighting and controls for main and auxiliary gym.
- New gym lighting and controls.

- Questions?
- Thank you

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(260) 424-0444 phone
info@primary-eng.com

Pre-Bid Meeting Sign-In Sheet

Project: FWCS 2026 Electrical PROJECTS
Date: January 07, 2026

Name	Firm	Email Address
Travis Searles	FWCS	
Kevin Thomas	"	
Corey Townsend	Primary Eng.	
Braxton Riley	Prim Eng.	

LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER'S CATALOG NUMBER	MAX. WATTS	MOUNT	MIN. LUMEN OUTPUT *(D,I)	CCT	CRI	DESCRIPTION	REMARKS
DL1	HALO COMMERCIAL #HC620D010-HM60525840-61MDH PRESCOLITE # GOTHAM #	20.9	RECESSED	2,000	4000	90	120-277V, 6" DIAMETER DOWNLIGHT WITH MEDIUM DISTRIBUTION AND SELF-FLANGED SEMI-SPECULAR CLEAR REFLECTOR. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 1%. UL LISTED. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
DL1A	**SAME AS DL1 EXCEPT WITH GENERATOR TRANSFER DEVICE**							
DL2	PORTFOLIO #HC8R10D010-HM80520840-81MDH PRESCOLITE # GOTHAM #	10	RECESSED	1,000	4000	90	120-277V, 8" DIAMETER RETROFIT DOWNLIGHT WITH MEDIUM DISTRIBUTION AND SELF-FLANGED SEMI-SPECULAR CLEAR REFLECTOR. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 1%. UL LISTED. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
L1	METALUX #22MMS-L3C3-UNV-HIGH-A3/8-4/18GDIM LITHONIA # COLUMBIA #	39	SUSPENDED	5,267	4000	90	120-277V, 2'X2' ARCHITECTURAL LENSED TROFFER WITH FLAT SMOOTH LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 5%. UL LISTED. 6', 3/8" CABLE, 3 WIRE, 3 DIMMING LEADS AND GROUND OPTION TO BE INCLUDED. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
L2	METALUX #24MMS-L3C3-UNV-MEDIUM LITHONIA # COLUMBIA #	34	RECESSED	4,963	4000	90	120-277V, 2'X4' ARCHITECTURAL LENSED TROFFER WITH FLAT SMOOTH LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 5%. UL LISTED. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
L2A	**SAME AS L2 EXCEPT WITH GENERATOR TRANSFER DEVICE**							
L3	METALUX #24MMS-L3C3-UNV-HIGH LITHONIA # COLUMBIA #	47	RECESSED	6,598	4000	90	120-277V, 2'X4' ARCHITECTURAL LENSED TROFFER WITH FLAT SMOOTH LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 5%. UL LISTED. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
L3A	**SAME AS L3 EXCEPT WITH GENERATOR TRANSFER DEVICE**							
L4	METALUX #24CZSCT3-UNV-MED LITHONIA # COLUMBIA #	35.3	RECESSED	5,073	4000	90	120-277V, 2'X4' ARCHITECTURAL LENSED TROFFER WITH CURVE ACRYLIC SMOOTH LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 1%. UL LISTED. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
L4A	**SAME AS L4 EXCEPT WITH GENERATOR TRANSFER DEVICE**							
L5	METALUX #4SNLED-LD5-41SL-LN-UNV-L840-CD1-U LITHONIA # COLUMBIA #	31	SUSPENDED	4,144	4000	80	120-277V, 4' LINEAR STRIP FIXTURE WITH FROSTED LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 10%. UL LISTED.	
L6	METALUX #4SNLED-LD5-49SL-LN-UNV-L840-CD1-U LITHONIA # COLUMBIA #	39	SUSPENDED	4,903	4000	80	120-277V, 4' LINEAR STRIP FIXTURE WITH FROSTED LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 10%. UL LISTED.	
L7	METALUX #4SNLED-LD5-22SL-LN-UNV-L840-CD1-U LITHONIA # COLUMBIA #	16	SUSPENDED	2,276	4000	80	120-277V, 4' LINEAR STRIP FIXTURE WITH FROSTED LENS AND COLD ROLLED STEEL HOUSING. ELECTRONIC 0-10V DIMMING DRIVER WITH RANGE FROM 100% TO 10%. UL LISTED.	
PD1	METALUX #UHBS2-M-18-MV-L8C5-U LITHONIA # ILP #	119.1	SUSPENDED	18,567	4000	80	120-277V, 12" DIAMETER ROUND FIXTURE WITH HOOK AND 6 FOOT CORD WITHOUT PLUG WITH 0-10V DIMMING. UL LISTED. DLC QPL LISTED. FURNISH AND INSTALL WITH SAFETY CHAIN. **CONTROL WIRING REQUIRED FOR OPERATION OF 0-10V DIMMING. REFER TO DRAWINGS FOR LOCATIONS.**	
EM1	SURE LITE #SEL50SD	1	UNIVERSAL	436	-	-	120-277V, WHITE POLYCARBONATE HOUSING AND HEADS WITH SELF DIAGNOSTICS. MINIMUM OF 90 MINUTES OF RUN TIME. UL LISTED. **PROVIDE ADDITIONAL TWO (2) FIXTURES, LABOR AND MATERIALS FOR COMPLETE INSTALL TO BE INCLUDED.**	
EX1	SURE LITE #LPX-7-SD-WG10 LITHONIA #LQM-S-W-3-R-120/277-EL N-SD-ELA-WG1 DUAL LITE #EVE-U-R-W-E-I-WGLX	1	UNIVERSAL		-	-	120-277V, WHITE POLYCARBONATE SELF POWERED EXIT SIGN WITH SELECTABLE COLOR SET TO RED LETTERS WIRE GUARD, AND NICKEL CADMIUM BATTERY. EXIT SIGN SHALL HAVE SELF DIAGNOSTIC. UL LISTED. **PROVIDE ADDITIONAL ONE (1) FIXTURES, LABOR AND MATERIALS FOR COMPLETE INSTALL TO BE INCLUDED.**	
EX2	SURE LITE #LPX-6 LITHONIA #LQM-S-3-R-120/277 DUAL LITE #EVE-U-R-W	1	UNIVERSAL		-	-	120-277V, WHITE POLYCARBONATE EXIT SIGN WITH SELECTABLE COLOR SET TO RED LETTERS. UL LISTED. **PROVIDE ADDITIONAL THREE (3) FIXTURES, LABOR AND MATERIALS FOR COMPLETE INSTALL TO BE INCLUDED.**	
EX3	SURE LITE #LPXC50 LITHONIA # DUAL LITE #	2.2	UNIVERSAL		-	-	120-277V, WHITE POLYCARBONATE EXIT SIGN WITH SELECTABLE COLOR SET TO RED LETTERS, EMERGENCY LIGHTS AND NICKEL CADMIUM BATTERY. EXIT SIGN SHALL HAVE SELF DIAGNOSTIC. UL LISTED. **PROVIDE ADDITIONAL ONE (1) FIXTURES, LABOR AND MATERIALS FOR COMPLETE INSTALL TO BE INCLUDED.**	

REMARKS:
1
2

ELECTRICAL ABBREVIATIONS SCHEDULE

A OR AMP	AMPERE	EM	EMERGENCY	KW	KILOWATT	SIM	SIMILAR
AC	ABOVE COUNTER	EMT	ELECTRICAL METALLIC TUBING	KWH	KILOWATT-HOUR	SPEC	SPECIFICATION
A/E	ARCHITECT/ENGINEER	EQ	EQUAL	LP	LIGHT POLE	SQ	SQUARE
AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	MAU	MAKE-UP AIR UNIT	SS	STAINLESS STEEL
AFG	ABOVE FINISHED GRADE	EWH	ELECTRICAL WATER HEATER	MAX	MAXIMUM	STD	STANDARD
AHU	AIR HANDLING UNIT	EXIST	EXISTING	MC	MECHANICAL CONTRACTOR	STL	STEEL
ALT	ALTERNATE	EXT	EXTERIOR	MCC	MOTOR CONTROL CENTER	SUSP	SUSPEND
APPROX	APPROXIMATELY	F	FURNACE	MCM	THOUSAND CIRCULAR MILLS	TCP	TEMPERATURE CONTROL PANEL
AWG	AMERICAN WIRE GAUGE	FA	FIRE ALARM	MFR	MANUFACTURER	TTB	TELEPHONE TERMINAL BOARD
BLDG	BUILDING	FAA	FIRE ALARM ANNUNCIATOR	MH	METAL HALIDE	TWS	TEACHER'S WORK STATION
BLKG	BLOCKING	FACP	FIRE ALARM CONTROL PANEL	MIN	MINIMUM	TYP	TYPICAL
BTM	BOTTOM	FCU	FAN COIL UNIT	MISC	MISCELLANEOUS	UH	UNIT HEATER
C	CONDUIT	FDN	FOUNDATION	MO	MASONRY OPENING	UL	UNDERWRITERS LABORATORIES
CB	CIRCUIT BREAKER	FIN	FINISH	#	NUMBER	UNO	UNLESS NOTED OTHERWISE
CL	CENTERLINE	FL	FLUORESCENT	NC	NORMALLY CLOSED	UPS	UNINTERRUPTIBLE POWER SUPPLY
CFM	CUBIC FEET PER MINUTE	FT	FOOT	NIC	NOT IN CONTRACT	V	VOLTAGE
CUH	CABINET UNIT HEATER	FT-C	FOOT CANDLE	N/L	NIGHT LIGHT	VAV	VARIABLE AIR VOLUME
CLG	CEILING	G OR EGC	GROUND	NO	NORMALLY OPEN	VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	GA	GAUGE	NOM	NOMINAL	VFD OR VSD	VARIABLE FREQUENCY DRIVE
COL	COLUMN	GAP	GENERATOR ANNUNCIATOR PANEL	NTS	NOT TO SCALE	W	WATT
CONC	CONCRETE	GFCI OR GFI	GROUND FAULT CIRCUIT INTERRUPTER	OAC	OPENING ABOVE CEILING	W/	WITH
CONC BLK	CONCRETE BLOCK	GRC	GALVANIZED RIGID CONDUIT	OC	ON CENTER	WG	WIRE GUARD
CONST	CONSTRUCTION	GWH	GAS WATER HEATER	OD	OUTSIDE DIAMETER	W/O	WITHOUT
CONTR	CONTRACTOR	HT	HEIGHT	OP	OVERHEAD POWER LINES	WP	WATERPROOF
Cu	COPPER	HORIZ	HORIZONTAL	LB	POUND	XFRMR	TRANSFORMER
DC	DIRECT CURRENT	HPS	HIGH PRESSURE SODIUM	PH	PHASE	YD	YARD
DIA	DIAMETER	HR	HOUR	PC	PLUMBING CONTRACTOR	YR	YEAR
DEG	DEGREE	ID	INSIDE DIAMETER	PIV	POST INDICATING VALVE		
DET	DETAIL	IG	ISOLATED GROUND	PVC	POLYVINYL CHLORIDE		
DIM	DIMENSION	IMC	INTERMEDIATE METAL CONDUIT	R	RADIUS		
DWG	DRAWING	INSUL	INSULATION	REQ OR REQ'D	REQUIRED		
EC	ELECTRICAL CONTRACTOR	INT	INTERIOR	RM	ROOM		
EF	EXHAUST FAN	INFO	INFORMATION	RO	ROUGH OPENING		
ELEC	ELECTRICAL	KCMIL	THOUSAND CIRCULAR MILLS	RTU	ROOF TOP UNIT		
ELEV	ELEVATION	KVA	KILOVOLT-AMPERE	SCHED	SCHEDULE		

GENERAL ELECTRICAL DEMOLITION NOTES

1. REMOVE ALL EXPOSED RACEWAY AND WIRE THAT ARE NO LONGER TO BE USED.
2. BLANK OFF OR REMOVE ALL ABANDONED JUNCTION AND OUTLET BOXES IN WALLS, FLOORS, AND CEILINGS THAT ARE TO REMAIN.
3. ALL EXISTING EQUIPMENT THAT IS TO REMAIN IS INTENDED TO BE OPERATIONAL AT THE COMPLETION OF THE PROJECT. RECIRCUIT WHERE NECESSARY TO INSURE THIS CONTINUED OPERATION.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT THAT IS TO BE REMOVED.
5. THE EXISTING EQUIPMENT SHOWN ON THE DRAWINGS IS BELIEVED TO BE A REASONABLE INDICATION OF THE EXISTING LAYOUT. EXACT QUANTITY AND LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. DIMENSIONS SHOWN ON OUTLET BOXES AND DEVICES SHALL BE TO THE BOTTOM OF THE BOX.
2. CONDUIT SHOWN TO LIGHT FIXTURES IS SHOWN TO INDICATE SWITCHING AND DOES NOT REPRESENT THE QUANTITY OR EXACT LOCATION OF WIRING AND/OR CONDUIT.
3. COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING, AND CONDUIT IF NECESSARY AND AS DIRECTED BY THE ARCHITECT/ENGINEER.
4. PROVIDE AND INSTALL PLASTER RINGS, DRYWALL FRAMING KITS, OR SURFACE MOUNT KITS FOR LIGHT FIXTURES WHERE REQUIRED BY CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS.
5. THE ELECTRICAL LAYOUT DRAWINGS ARE DIAGRAMMATIC IN NATURE. REFER TO ENTIRE CONSTRUCTION DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF PIPING, DUCTWORK, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANY WORK BY ANOTHER DISCIPLINE.
6. ALL DIMENSIONS OF EXISTING DEVICES AND EQUIPMENT ARE APPROXIMATE. CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE PLANS. ALL ADDED COSTS TO MODIFY NEW CONSTRUCTION DUE TO A LACK OF COORDINATION AND FIELD MEASUREMENTS SHALL BE BORNE BY THE CONTRACTOR.
7. PROVIDE ADDITIONAL SUPPORT FOR SWITCHES, STARTERS, RACEWAY, GROUNDING SYSTEMS, AND OTHER ELECTRICAL EQUIPMENT WHEREVER THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
8. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH FIRE STOPPING MATERIAL EQUAL TO THOMAS AND BETTS U.L. LISTED FLAME-SAFE FIRE STOP SYSTEM.
9. COORDINATE ALL EQUIPMENT WIRING WITH MFR'S REQUIREMENTS. CHANGES REQUIRED FROM THE USE OF PRODUCTS THAT ARE OTHER THAN THE BASIS OF DESIGN SHALL BE BORNE BY THE CONTRACTOR.
10. SIZING OF BRANCH CIRCUITS AND FEEDERS FOR EQUIPMENT IS BASED ON DESIGN LOADS. PRIOR TO INSTALLATION, CONFIRM EXACT LOADS WITH RELEASED SHOP DRAWINGS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO ROUGH-IN.
11. BRANCH CIRCUITS SHALL BE WIRED WITH 3/4"C, 2-#12, 1-#12G, UNLESS NOTED OTHERWISE. NEUTRAL CONDUCTORS SHALL NOT BE SHARED ON BRANCH CIRCUITS.
12. WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS, THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS SHALL BE AT THE DISCRETION OF CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS, AND THE FOLLOWING LIMITATIONS:
13. EXCEPT WHERE NOTED OTHERWISE, SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING AND TO THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS.)

CIRCUIT BREAKER	CIRCUIT LENGTH	CONDUCTOR SIZE
120V, 20 A	100 FEET	#12
	150 FEET	#10
	200 FEET	#8

14. PROVIDE #12 AWG MINIMUM FOR BRANCH CIRCUITS. PROVIDE ADDITIONAL DERATING PER N.E.C. TABLES 310-16 THROUGH 310-31 FOR ALL HOME RUNS WITH MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY.
15. CONDUITS SHALL BE LIMITED TO A MAXIMUM OF NINE BRANCH CIRCUIT CONDUCTORS OF WHICH A MAXIMUM OF FOUR PHASE CONDUCTORS SHALL BE PERMITTED. GROUNDING CONDUCTORS SHALL NOT BE INCLUDED IN THE COUNT.
16. FOR EQUIPMENT THAT IS TO BE FURNISHED BY OTHERS AND WIRED BY THIS CONTRACTOR, REVIEW ALL SPECIFICATION SECTIONS, EQUIPMENT SCHEDULES, AND/OR DRAWING DETAILS THAT PERTAIN TO THIS EQUIPMENT AND INCLUDE ALL WIRING AND DEVICES REFERENCED. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN / INSTALLATION.
17. CONDUIT, BOXES, AND WIRING DEVICES IN ALL AREAS SHALL BE INSTALLED IN CONCEALED SPACES OR RECESSED IN WALLS UNLESS IN MECHANICAL/ELECTRICAL EQUIPMENT ROOMS OR AS DIRECTED BY THE ARCHITECT/ENGINEER.

ELECTRICAL SYMBOLS SCHEDULE

POWER SYMBOLS

RECESSED PANELBOARD

SURFACE MOUNTED PANELBOARD

MCC-X — MOTOR CONTROL CENTER; "X" DENOTES EQUIPMENT TAG.

ELECTRICAL METER

T-XX — TRANSFORMER: "XX" INDICATES TRANSFORMER TAG. REFER TO SCHEDULES AND/OR RISER DIAGRAM

XXA — FUSIBLE DISCONNECT: "XXA" DENOTES MAX. AMPACITY OF DISCONNECT

XXA — NON-FUSIBLE DISCONNECT: "XXA" DENOTES MAX. AMPACITY OF DISCONNECT

J X — JUNCTION BOX; "X" DENOTES LOCATION (CLG = CEILING MOUNTED)

X — 120 V, 20 AMP DUPLEX RECEPTACLE 16" A.F.F., UNO. "X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

X — 120 V, 20 AMP DUPLEX RECEPTACLE AT 44"A.F.F. OR 6" ABOVE CASEWORK SURFACE, UNO. "X" DENOTES RECEPTACLE TYPE. SEE RECEPTACLE TYPES BELOW.

HORIZONTALLY MOUNTED SURFACE RACEWAY

VERTICALLY MOUNTED SURFACE RACEWAY

LIGHTING SYMBOLS

$X — SWITCH, "X" DENOTES SWITCH TYPE. SEE SWITCH TYPES BELOW.

$x — SWITCH, "x" DENOTES SWITCHING FOR LIGHTS.

SWITCH TYPES

"2"	120/277 V, DOUBLE POLE 20 AMP AC SWITCH
"3"	120/277 V, THREE WAY 20 AMP AC SWITCH
"4"	120/277 V, FOUR WAY 20 AMP AC SWITCH
"D"	120/277 V, 0-10V DIMMER SWITCH
"DSX"	LOW VOLTAGE PROGRAMMABLE SWITCH. "X" DENOTES SWITCH TYPE.
"K"	120/277 V, KEY OPERATED 20 AMP AC SWITCH

XX ab — LIGHT FIXTURE, "XX" DENOTES FIXTURE TYPE, "ab" DENOTES SWITCHING

XX ab / XXA ab — EMERGENCY LIGHT FIXTURE, "XX" DENOTES FIXTURE TYPE, "A" DENOTES GENERATOR TRANSFER DEVICE OR EMERGENCY BATTERY INVERTER, "ab" DENOTES SWITCHING.

EM — WALL MOUNTED EMERGENCY LIGHT FIXTURE

EM — CEILING MOUNTED EMERGENCY LIGHT FIXTURE

EX — UNIVERSAL CEILING MOUNT EXIT LIGHT, "EX" DENOTES FIXTURE TYPE. REFER TO EXIT SIGN TYPES BELOW.

EX — UNIVERSAL CEILING MOUNT EXIT LIGHT DOUBLE-SIDED, "EX" DENOTES FIXTURE TYPE. REFER TO EXIT SIGN TYPES BELOW.

EXM — UNIVERSAL CEILING MOUNT EXIT LIGHT WITH EMERGENCY LIGHTING, "EXM" DENOTES FIXTURE TYPE. REFER TO EXIT SIGN TYPES BELOW.

EX — UNIVERSAL WALL MOUNT EXIT LIGHT, "EX" DENOTES FIXTURE TYPE. REFER TO EXIT SIGN TYPES BELOW.

EXM — UNIVERSAL WALL MOUNT EXIT LIGHT WITH EMERGENCY LIGHTING, "EXM" DENOTES FIXTURE TYPE. REFER TO EXIT SIGN TYPES BELOW.

EXIT SIGN TYPES

WITHOUT DIRECTIONAL ARROWS

WITH LEFT / RIGHT DIRECTIONAL ARROWS

WITH LEFT DIRECTIONAL ARROW

WITH RIGHT DIRECTIONAL ARROW

OX y — CEILING MOUNTED OCCUPANCY SENSOR. "X" DENOTES SENSOR TYPE, "y" DENOTES SWITCH TYPE.

OX y — WALL MOUNTED OCCUPANCY SENSOR. "X" DENOTES SENSOR TYPE, "y" DENOTES SWITCH TYPE, 9'-0" A.F.F., UNO

PP y — POWER PACK FOR 24V OCCUPANCY / VACANCY SENSORS. "X" DENOTES SENSOR TYPE, "y" DENOTES SWITCH TYPE.

EX y — EMERGENCY POWER PACK FOR 24V OCCUPANCY / VACANCY SENSORS. "X" DENOTES SENSOR TYPE, "y" DENOTES SWITCH TYPE.

GENERAL SYMBOLS

X/Y — CALL OUT; "X" DENOTES DETAIL NUMBER, "Y" DENOTES DRAWING SHEET NUMBER

CIRCUIT HOME RUN TO PANELBOARD

X — DEMOLITION WORK PLAN NOTE; "X" DENOTES PLAN NOTE NUMBER.

X — NEW WORK PLAN NOTE; "X" DENOTES PLAN NOTE NUMBER.

X — REVISION NOTE; "X" DENOTES REVISION NUMBER.

PANEL: NEW EDPL — **MCB:** 200 AMPERE — **VOLTAGE:** 120/208
MOUNTING TYPE: SURFACE — **K.A.I.C.:** 22 — **PHASE:** 3
PANEL REMARKS: — **FED FROM:** SEE RISER — **WIRE:** 4+G
HINGED DOOR WITHIN HINGED COVER, COPPER BUS, 100% RATED NEUTRAL BUS, FEED THROUGH LUGS

REMARKS	CKT NO.	BRK SIZE	LOAD DESCRIPTION	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD DESCRIPTION	BRK SIZE	CKT NO	REMARKS
	1	125A/3P	EXISTING PANEL"BR"	8696 / 2700			EXISTING PANEL "EM"	100A/3P	2	
	3				8696 / 2700				4	
	5					8696 / 2700			6	
	7	100A/3P	EXISTING PANEL"ES"	5267 / 0				20A/1P	8	1
	9				5267 / 0			20A/1P	10	1
	11					5267 / 0		20A/1P	12	1
	13	20A/1P		0 / 0				20A/1P	14	
	15	20A/1P			0 / 0			20A/1P	16	
	17	20A/1P				0 / 0		20A/1P	18	
	19	20A/1P		0 / 0				20A/1P	20	
	21	20A/1P			0 / 0			20A/1P	22	
	23	20A/1P				0 / 0		20A/1P	24	
	25	20A/1P		0 / 0				20A/1P	26	
	27	20A/1P			0 / 0			20A/1P	28	
	29	20A/1P				0 / 0		20A/1P	30	
				16,663	16,663	16,663				

REMARKS
1. PROVIDE AND INSTALL SPARE 20A/1P BREAKER
2. CIRCUIT BREAKER TO BE GFCI TYPE.
3. PROVIDE AND INSTALL CIRCUIT BREAKER RED LOCKOUT WITH "FA" TAG EQUAL TO SPACE AGE ELECTRONICS #ELOCK-FA

1

LIGHTING SENSOR SCHEDULE

TAG	MANUFACTURER'S CATALOG NUMBER	INPUT VOLTAGE	MOUNT	REMARKS	REMARKS
O1	WATTSTOPPER #DT-300 SENSOR SWITCH #CM-PDT-9-R GREENGATE #OAC-DT-R HUBBELL #OMNI-DT-XXXX-RP	24V	CEILING	DUAL TECHNOLOGY CEILING SENSOR WITH A COMBINATION OF ULTRASONIC AND PASSIVE INFRARED. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY AND ISOLATED RELAY OUTPUTS. SENSOR SHALL OPERATE AS AUTOMATIC "ON" AND AUTOMATIC "OFF" WITH A 15 MINUTE TIME DELAY.	1
O2	WATTSTOPPER #DT-200 SENSOR SWITCH #WV-PDT-16-R GREENGATE #OAWC-DT-120W-R HUBBELL #LO-DT-RP LUTRON #LOS-CDT-2000	24V	WALL	DUAL TECHNOLOGY WALL SENSOR WITH A COMBINATION OF ULTRASONIC AND PASSIVE INFRARED. SENSOR TO BE EQUIPPED WITH SELF ADJUSTING TECHNOLOGY AND ISOLATED RELAY OUTPUTS. SENSOR SHALL OPERATE AS AUTOMATIC "ON" AND AUTOMATIC "OFF" WITH A 15 MINUTE TIME DELAY.	1
PP	WATTSTOPPER #BZ150 SENSOR SWITCH #PP20 GREENGATE #SP20-MV HUBBELL	120/277V	4 SQUARE BOX ABOVE ACCESSIBLE CEILING	POWER PACK TO OPERATE LOW VOLTAGE (24VDC) OCCUPANCY SENSORS. RELAY TO BE 20A RATED.	
EP	WATTSTOPPER #ELCU-200 BODINE #BLCD-20B GREENGATE #EPC-A-1 HUBBELL	120/277V	4 SQUARE BOX ABOVE ACCESSIBLE CEILING	EMERGENCY LIGHTING CONTROL UNIT SHALL ALLOW CONTROL OF EMERGENCY LIGHTING FIXTURE IN TANDEM WITH NORMAL LIGHTING IN ROOM WHILE ENSURING THE EMERGENCY LIGHT WILL TURN ON TO FULL OUTPUT UPON LOSS OF NORMAL POWER. SUPPLY CONTROL DEVICE. DRY CONTACTS SHALL BE RATED FOR 20A. DEVICE SHALL BE UL924 LISTED.	

REMARKS:
1. PROVIDE POWER PACKS AND EMERGENCY LIGHTING CONTROL UNITS AS REQUIRED TO OPERATE LIGHTING AS SHOWN ON FLOOR PLANS
2. 120/277V SENSOR IN LIEU OF POWER PACK IS ACCEPTABLE.

GENERAL NOTES:
1. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE INSTALLED 6'-0" AWAY FROM ANY SUPPLY DIFFUSERS, COORDINATE WITH MECHANICAL CONTRACTOR.

LINE TYPE SCHEDULE

UNDERGROUND FEED LINE TYPE AND WEIGHT
NEW POWER LINE WEIGHT
NEW LIGHTING LINE WEIGHT
NEW LIGHTING DEVICE LINE WEIGHT
NEW EMERGENCY AND FIRE DEVICE LINE WEIGHT
EXISTING TO REMAIN LINE WEIGHT
EXISTING TO BE DEMOLISHED LINE TYPE AND WEIGHT

IF THE WHEEL PRINTED BELOW IS NOT SHOWN IN COLOR, THIS SET OF PRINTS IS NOT REPRESENTING ALL LINE TYPES CORRECTLY. CONTACT PRIMARY ENGINEERING FOR DIRECTIONS ON HOW TO OBTAIN A FULL COLOR SET OF PRINTS

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1 ADDENDUM #1 1-08-2026

FORT WAYNE COMMUNITY SCHOOLS
2026 ELECTRICAL PROJECTS
FORT WAYNE, INDIANA

CERTIFICATION:
MICHAEL E. LUBBEHUSEN REGISTERED No. PE10302397 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

DATE: 12-23-2025
COMM: 25778
FILE: 778-0-E001

SCHOOL:

TITLE:
ELECTRICAL INFORMATION SHEET

SHEET:
E001