THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG WHEN PLOTTED ON ORIGINAL PLOT SIZE SHEET.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES		
LIGHT SWITCH:GENERAL PURPOSE	46"	$
EXAM LIGHT SWITCH	46"	$X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	$N
SURGICAL LIGHT INTENSITY CONTROL	46"	$SL
DIMMER SWITCH	46"	$D
THREE-WAY SWITCH	46"	$3
FOUR-WAY SWITCH	46"	$4
KEYED SWITCH	46"	$K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$OS $VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	$IL
LOW VOLTAGE MOMENTARY SWITCH	46"	$LV
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	$PL
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$M
MOMENTARY CONTACT SWITCH	46"	$MC
HAND-OFF-AUTO 3-POSITION SWITCH	46"	$HOA
TIMER SWITCH	46"	$T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
PHOTO-CELL AS NOTED	AS NOTED	PC
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)		ER
POWER OUTLETS		
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE-SAFETY TYPE, TAMPER-RESISTANT	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, OR AT 46" WHERE NO COUNTER IS PRESENT		
RECEPTACLE WITH INTEGRAL GROUND FAULT PROTECTION (GFCI), TAMPER-RESISTANT	1'-6"	
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		
FILLED OUTER BARS INDICATES INTEGRAL INTEGRAL USB OUTLETS IN ADDITION TO POWER RECEPTACLES	1'-6"	
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	C/S
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	
VOLTAGE/3PH RECEPTACLE, AS NOTED	1'-6"	
"DOG-HOUSE" TYPE TWIN DUPLEX RECEPTACLE WITH ONE DUPLEX RECEPTACLE ON BOTH SIDES	ON CNTR.	DP
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		SS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER. PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		EWC
PLUG LOAD CONTROLLED RECEPTACLE, TAMPER RESISTANT		
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	46" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F E
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A A
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V V
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD P
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE BR
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABV CLG	CD
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F CM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"	NAC
TRANSPONDER CABINET	46"	TRAN
GRAPHICS DISPLAY TERMINAL		GDT
FIRE ALARM CONTROL EXTENDER		EXT
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK	4'-6"	FP
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER. VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		PC
INDICATES CHIME AUDIBLE NOTIFACTION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
FLOODLIGHT		
SURGICAL/EXAM LIGHT		SL XL
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
PARALLEL-HATCHING OR SOLID RED FILL PATTERN INDICATES LIGHT IS POWERED FROM INTEGRAL BATTERY PACKS		
INDICATES LUMINAIRE FED FROM UNSWITCHED "NIGHTLIGHT" CIRCUIT		NL
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE
DISCONNECT SWITCH	5'-0"	H
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	H
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT.		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
PUSHBUTTON STATION	46"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL	46"	DB
DOORBELL AUDIO/VISUAL STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OwNER/ARCHITECT, NUTONE OR EQUAL.	7'-6"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
INDICATES MOUNTING ABOVE COUNTER-TOP, 2" ABOVE BACKSPLASH, NO HIGHER THAN 48"		C
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
INDICATES EMERGENCY POWER		E,EM
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT STUB-UP. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS		T
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
SPECIAL OUTLETS		
FLOORBOX, POWER ONLY, AS SCHEDULED	FLOOR	
FLOORBOX, COMBINATION POWER AND LOW VOLTAGE, REFER TO FLOORBOX SCHEDULE	FLOOR	
FIRE RATED POKE THOUGH FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES, DEVICES AS SCHEDULED	FLOOR	
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	K AV
COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP
TELEVISION		
TELEVISION SPLITTERS/AMPLIFIERS/DISTRIBUTION	46"	TV-HE
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE. COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
OVERHEAD PAGING		
PAGING SPEAKER: CEILING	CLG	S
PAGING SPEAKER W/ VOLUME CONTROL	CLG	VC
PAGING SPEAKER: WALL	8'-0"	S
VANDAL PROOF PAGING SPEAKER: WALL HIGH OUTPUT, FLANGED HORN TYPE SPEAKER		S H
WALL MOUNTED PAGING HORN	9'-0"	H
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER. QUAM VP1	SEE FLOOR PLANS	S WP
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER. QUAM VP6	SEE FLOOR PLANS	S EXT.
CALL INITIATION STATION	46"	C
WALL VOLUME CONTROL	46"	V
LCD WALL DISPLAY		LD
PAGING MICROPHONE	1'-6"	M
PAGING SYSTEM AMPLIFIER/TUNER CABINET	46"	PA
DATA / VOICE		
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CINDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 30-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN).		TEL
WIRELESS ACCESS POINT WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS. WAPS ARE OWNER-FURNISHED, OWNER-INSTALLED		WAP

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SECURITY INTERCOM		
AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM. AIPHONE#AX-MV W/DESK STAND - COLOR BY ARCHITECT.	18"	IM
SAME AS "IM" EXCEPT WALL MOUNTED	46"	IM W
AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S. ENCLOSURE. AIPHONE #AX-DVF.	46"	IR
SECURITY ACCESS CONTROL		
DOOR ALARM/POSITION SWITCH	DOOR FRAME	DA
MAGNETIC LOCK(S)	ABV DOOR	ML
DOOR POWER SUPPLY	ABV CLG	DS
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM.	ABV DOOR	DP
ELECTRIC STRIKE	AT LATCH	ES
AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	AD
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PP
DOOR RELEASE KEYSWITCH STATION	6'-0"	KS
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	CR
SAME AS "CR" EXCEPT MULLION MOUNT	46"	CR M
MOTION SENSOR DOOR CONTROL	CEIL.	MS
PUSH-TO-EXIT BUTTON	46"	PE
ACCESS CONTROL POWER SUPPLIES/CONTROL PANEL	46"	SEC-A
SECURITY CCTV VIDEO SURVEILLANCE		
REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	RR
CCTV CAMERA: CEILING MOUNT DOME	CLG	CC
CCTV CAMERA: WALL MOUNT DOME	WALL	CC WP
INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILLARY HEATER		
INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
CCTV POWER SUPPLIES/CONTROL PANEL	46"	SEC-C
SECURITY INTRUSION DETECTION		
MOTION DETECTOR	CLG	MD
MOTION DETECTOR KEYPAD CONTROLLER	46"	MK
SECURITY SYSTEM HEAD END	46"	SEC-M
CLASSROOM A/V EQUIPMENT		
CEILING MOUNTED PROJECTOR		P
A/V SYSTEM CABLING TERMINATIONS / WALLPLATE		K AV
CLASSROOM PROJECTOR SPEAKER		HS
SMARTBOARD		SB
SMARTBOARD WITH INTEGRAL PROJECTOR		P SB
CART / CEILING / WALL PROJECTOR (AS NOTED)		P
LOCAL SOUND		
WALL MICRO-PHONE OUTLET : SINGLE	1'-4"	M
WALL MICRO-PHONE OUTLETS(# AS NOTED)	1'-4"	M 2 ,3 ,4
FLOOR MICRO-PHONE OUTLET : SINGLE	FLOOR	M
FLOOR MICRO-PHONE OUTLETS(# AS NOTED)	FLOOR	M2,M3,M4
HMDI WALL PLATE: ONE DATA, HDMI, 3.5mm AUDIO		H
REMOTE ANTENNA AND TRANSMITTER LOCATION		R
SOUND SYSTEM SPEAKER		SS
CAFETERIA SYSTEM SOUND SPEAKER	SEE SPECS	CS
GYMNASIUM SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	SS-G
CAFETERIA SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	SS-C
BAND SOUND SYSTEM SPEAKER	SEE DWGS	BS

SYSTEM RESPONSIBILITY MATRIX

SYSTEM	PATHWAYS	DEVICES - O F O I	DEVICES - O F C I	DEVICES - C F C I	CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - O F C I	CABLING/CONDUCTORS - C F C I	SYSTEM SYMBOL
OVERHEAD PAGING	●	●			●			◇
FIRE ALARM	●	●		●			●	□
SECURITY: ACCESS CONTROL	●	●			●			⬡
SECURITY: INTRUSION	●	●			●			⬡
SECURITY: CCTV	●	●			●			⬡
DATA PROCESSING	●	●			●			▽
LOCAL SOUND	●			●			●	○

SYSTEM RESPONSIBILITY GENERAL NOTES:

A. REFER TO VENDOR DRAWINGS FOR COMPLETE SCOPE OF WORK RELATING TO VENDOR-FURNISHED EQUIPMENT. ALL WORK INDICATED ON VENDOR DRAWINGS SHALL BE INCLUDED BY THE CONTRACTOR.
B. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.
C. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC, AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.
D. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS. TERMINATE CONDUITS AT CABINETS/BOARD BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.
E. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC.
F. WHERE INDICATED AS CFCI, THE CONTRACTOR SHALL PROVIDE THE SYSTEM COMPLETE, INCLUDING ALL ROUGH-INS, CABLING, DEVICES, POWER, ETC. THE CONTRACTOR SHALL CONTACT THE LISTED VENDOR FOR PRICING PRIOR TO BID. ALL SYSTEMS SHALL MATCH EXISTING FACILITY STANDARDS AND BE FULLY COMPATIBLE WITH ANY EXISTING SYSTEMS. ALL SYSTEM VENDORS SHALL COORDINATE EXACT SYSTEM REQUIREMENTS WITH OWNER PRIOR TO BID. NEW COMPONENTS SHALL BE INTERCONNECTED WITH EXISTING SYSTEMS WHERE POSSIBLE. ALL NEW SYSTEM DESIGNS AND PROGRAMMING SHALL BE COORDINATED WITH THE OWNER PRIOR TO ORDERING. ALL PROGRAMMING SHALL BE INCLUDED AS REQUIRED BY THE OWNER. PROVIDE 4 HOURS OF TRAINING FOR EACH SYSTEM.

GENERAL NOTES (LEGEND):

A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. IN ADDITION, OBSERVE ALL APPLICABLE RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT FROM CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.

D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES. WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.

G. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

H. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

I. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR, THE MOST STRINGENT SHALL APPLY.

J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

K. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

L. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND FURNITURE, CASEWORK, AND/OR EQUIPMENT. ADDITIONAL OUTLETS MAY BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE INCLUDED IN THE CONTRACT.

M. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

N. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

O. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

P. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

Q. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER

R. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.

S. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.

T. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.

U. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

V. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT, ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

X. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

Y. DO NOT RECESS PANELBOARD TUBS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH WHEN PLOTTED ON ORIGINAL PLOT SHEETS

EQUIPMENT CONNECTION SCHEDULE

EQUIP ID	DESCRIPTION	DISCONNECT MEANS	VOLTAGE	POLES	HP	POWER (kVA)	MCA
AC-12	INDOOR SPLIT UNIT	NEMA-1 30A/2P SAFETY SWITCH	208	2		0.08	
AC-24	INDOOR SPLIT UNIT	NEMA-1 30A/2P SAFETY SWITCH	208	2		0.08	
CU-12	CONDENSING UNIT	NEMA-3R 30A/2P SAFETY SWITCH	208	2		2.08	8
CU-24	CONDENSING UNIT	NEMA-3R 30A/2P SAFETY SWITCH	208	2		3.95	13
DOAS EF-1	OUTSIDE AIR - EXHAUST FAN	VFD BY MECHANICAL	480	3	(2)15	33.22	50
DOAS EF-2	OUTSIDE AIR - EXHAUST FAN	VFD BY MECHANICAL	480	3	(2)5	11.63	17.5
DOAS SF-1	OUTSIDE AIR - SUPPLY FAN	VFD BY MECHANICAL	480	3	(2)20	43.18	65
DOAS SF-2	OUTSIDE AIR - SUPPLY FAN	VFD BY MECHANICAL	480	3	(2)7.5	17.44	26.25
DP-1	RECIRCULATING PUMP	NEMA-3R 30A/1P MOTOR RATED SWITCH	120	1	1/6	0.53	5.5
DP-2	RECIRCULATING PUMP	NEMA-3R 30A/1P MOTOR RATED SWITCH	120	1	1/6	0.53	5.5
DP-3	RECIRCULATING PUMP	NEMA-3R 30A/1P MOTOR RATED SWITCH	120	1	1/6	0.53	5.5
DWBP-1	DOMESTIC WATER BOOSTER PUMP	NEMA-3R 60A/3P SAFETY SWITCH	480	3	(2)3	7.97	12
DWHP-1	DOMESTIC WATER HEAT PUMP	NEMA-3R 60A/3P SAFETY SWITCH	480	3		20.26	30.5
EF-1	EXHAUST FAN	FURNISHED WITH UNIT	120	1	1/2	9.80	83.3
EF-2	EXHAUST FAN	FURNISHED WITH UNIT	120	1	1/6	0.53	5.5
EUH-1	ELECTRIC UNIT HEATER	FURNISHED WITH UNIT	480	2		3.00	7.8
FF-1	AIR CURTAIN	NEMA-1 30A/3P MOTOR RATED SWITCH	480	3	(2)1/2	1.74	2.63
GWP-1	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	20	22.42	33.75
GWP-2	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	20	22.42	33.75
GWP-3	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	20	22.42	33.75
HPC-1	WATER TO WATER HEAT PUMP	FURNISHED WITH UNIT	480	3		128.21	193
HPC-2	WATER TO WATER HEAT PUMP	FURNISHED WITH UNIT	480	3		87.03	131
MAU-1	KITCHEN HOOD MAKEUP AIR	NEMA-3R 200A/3P SAFETY SWITCH	480	3	2	77.99	117.4
VFD P-1A	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	3	3.99	6
VFD P-1B	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	3	3.99	6
VFD P-2A	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	5	6.31	9.5
VFD P-2B	HYDRONIC PUMP	VFD BY MECHANICAL	480	3	5	6.31	9.5
VHP-12	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	277	1		1.64	7.4
VHP-18	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	277	1		2.81	12.7
VHP-24	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	277	1		2.97	13.4
VHP-30	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	480	3		5.39	8.1
VHP-48	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	480	3		8.38	12.5
VHP-60	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	480	3		8.31	12.6
VHP-96	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	480	3		11.63	17.5
VHP-150	VERTICAL HEAT PUMP	FURNISHED WITH UNIT	480	3		18.14	27.3

FLOOR BOX/POKE THROUGH SCHEDULE

SYMBOL	TYPE	DESCRIPTION	COVER	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALT MANUFACTURER
	FB-A	4-GANG ON-GRADE MULTI-SERVICE FLOOR BOX WITH QUAD OUTLET AND INSERTS FOR DATA DEVICES	ROUND SURFACE	POWER = 3/4" DATA = 1-1/4"	HUBBELL SYSTEMONE	CFB2G30RCR	WIREMOLD, FSR

CORD REEL SCHEDULE

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALT MANUFACTURER
	CR	15A INDUSTRIAL CORD REEL, 25FT 14/3 SJO CABLE, HEAVY DUTY STEEL HOUSING, GFCI RECEPTACLE	HUBBELL	HBL25143C15	REELCRAFT, LEGRAND

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A3	2X4 RECESSED VOLUMETRIC LED TROFFER, STEEL HOUSING, ACRYLIC PRISMATIC REFRACTOR, HIGH EFFICIENCY DRIVER	LITHONIA	2BLT4-30LHE-ADP-MVOLT-GZ10-LP840	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	3000	23	277	
A3E	SAME AS TYPE A3 WITH BATTERY BACK-UP	LITHONIA	2BLT4-30LHE-ADP-MVOLT-GZ10-LP840-E10WLCP	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	3000	23	277	
A3GE	SAME AS TYPE A3 WITH DRYWALL ADAPTER AND BATTERY BACK-UP	LITHONIA	2BLT4-30LHE-ADP-MVOLT-GZ10-LP840-E10WLCP-DGA24	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	3000	23	277	
A4	2X4 RECESSED VOLUMETRIC LED TROFFER, STEEL HOUSING, ACRYLIC PRISMATIC REFRACTOR, HIGH EFFICIENCY DRIVER	LITHONIA	2BLT4-40LHE-ADP-MVOLT-GZ10-LP840	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4000	29	277	
A4E	SAME AS TYPE A4 WITH BATTERY BACK-UP	LITHONIA	2BLT4-40LHE-ADP-MVOLT-GZ10-LP840-E10WLCP	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4000	29	277	
A4G	SAME AS TYPE A4 WITH DRYWALL ADAPTER	LITHONIA	2BLT4-40LHE-ADP-MVOLT-GZ10-LP840-DGA24	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4000	29	277	
A4GE	SAME AS TYPE A4 WITH DRYWALL ADAPTER AND BATTERY BACK-UP	LITHONIA	2BLT4-40LHE-ADP-MVOLT-GZ10-LP840-E10WLCP-DGA24	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4000	29	277	
A5	2X4 RECESSED VOLUMETRIC LED TROFFER, STEEL HOUSING, ACRYLIC PRISMATIC REFRACTOR, HIGH EFFICIENCY DRIVER	LITHONIA	2BLT4-48LHE-ADP-MVOLT-GZ10-LP840	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4800	35	277	
A5E	SAME AS TYPE A5 WITH BATTERY BACK-UP	LITHONIA	2BLT4-48LHE-ADP-MVOLT-GZ10-LP840-E10WLCP	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4800	35	277	
A5G	SAME AS TYPE A5 WITH DRYWALL ADAPTOR	LITHONIA	2BLT4-48LHE-ADP-MVOLT-GZ10-LP840-DGA24	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4800	35	277	
A5GE	SAME AS TYPE A5 WITH DRYWALL ADAPTOR AND BATTERY BACK-UP	LITHONIA	2BLT4-48LHE-ADP-MVOLT-GZ10-LP840-E10WLCP-DGA24	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	4800	35	277	
A6	2X4 RECESSED VOLUMETRIC LED TROFFER, STEEL HOUSING, ACRYLIC PRISMATIC REFRACTOR, HIGH EFFICIENCY DRIVER	LITHONIA	2BLT4-60LHE-ADP-MVOLT-GZ10-LP840	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	6000	44	277	
A6E	SAME AS TYPE A6 WITH BATTERY BACK-UP	LITHONIA	2BLT4-60LHE-ADP-MVOLT-GZ10-LP840-E10WLCP	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	6000	44	277	
A7	2X4 RECESSED VOLUMETRIC LED TROFFER, STEEL HOUSING, ACRYLIC PRISMATIC REFRACTOR, HIGH EFFICIENCY DRIVER	LITHONIA	2BLT4-72LHE-ADP-MVOLT-GZ10-LP840	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	7200	53	277	
A7E	SAME AS TYPE A7 WITH BATTERY BACK-UP	LITHONIA	2BLT4-72LHE-ADP-MVOLT-GZ10-LP840-E10WLCP	METALUX CRUZE, COLUMBIA	RECESSED	4000K LED 80CRI	7200	53	277	
D4R	4" RECESSED OPEN LED DOWNLIGHT, MEDIUM DISTRIBUTION, 55 DEG CUTOFF, CLEAR SEMI-SPECULAR REFLECTOR WITH FLANGED TRIM	LITHONIA	LDN4-40-10-LO4-AR-LSS-MVOLT-GZ10	LIGHTOLIER #C4RDL-SL, PRESCOLITE	RECESSED	4000K LED 80CRI	1000	11	277	
D4RE	SAME AS TYPE D4R WITH BATTERY BACK-UP	LITHONIA	LDN4-40-10-LO4-AR-LSS-MVOLT-GZ10-E10WCP	LIGHTOLIER #C4RDL-SL, PRESCOLITE	RECESSED	4000K LED 80CRI	1000	11	277	
F4	4FT LED INDUSTRIAL STRIP, STEEL HOUSING, ROUND DIFFUSE LENS, CHAIN HANGERS, HIGH EFFICIENCY DRIVER	LITHONIA	CLX-L48-4000LM-HEF-RDL-MVOLT-40K-80CRI	METALUX #SNX, COLUMBIA #CSL	SUSPENDED	4000K LED 80CRI	4000	25	277	
F4E	SAME AS TYPE F4 WITH BATTERY BACK-UP	LITHONIA	CLX-L48-4000LM-HEF-RDL-MVOLT-40K-80CRI-E10W	METALUX #SNX, COLUMBIA #CSL	SUSPENDED	4000K LED 80CRI	4000	25	277	
F5	4FT LED INDUSTRIAL STRIP, STEEL HOUSING, ROUND DIFFUSE LENS, CHAIN HANGERS, HIGH EFFICIENCY DRIVER	LITHONIA	CLX-L48-5000LM-HEF-RDL-MVOLT-40K-80CRI	METALUX #SNX, COLUMBIA #CSL	SUSPENDED	4000K LED 80CRI	5000	32	277	
F5S	4FT LED INDUSTRIAL STRIP, STEEL HOUSING, ROUND DIFFUSE LENS, CHAIN HANGERS, HIGH EFFICIENCY DRIVER	LITHONIA	CLX-L48-5000LM-HEF-RDL-MVOLT-40K-80CRI THCLX	METALUX #SNX, COLUMBIA #CSL	SURFACE	4000K LED 80CRI	5000	32	277	
F7	4FT LED INDUSTRIAL STRIP, STEEL HOUSING, ROUND DIFFUSE LENS, CHAIN HANGERS, HIGH EFFICIENCY DRIVER	LITHONIA	CLX-L48-7000LM-HEF-RDL-MVOLT-40K-80CRI	METALUX #SNX, COLUMBIA #CSL	SUSPENDED	4000K LED 80CRI	7000	44	277	
HB18	HIGH BAY LED FIXTURE, WITH WIRE GUARD, HIGH EFFICIENCY DRIVER, ROTATEABLE OPTICS, IMPACT RESISTANT, CABLE HUNG, 0-10V DIMMING TO 10%	LITHONIA	IBG-18000LM-HEF-AFL-GND-MVOLT-GZ10-40K-80CRI-R OTO-150DEG-H BBS36-WGIBG26	METALUX #LHB COLUMBIA #PEL4	SUSPENDED	4000K LED 80CRI	18000	100	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
HB18E	SAME AS TYPE HB18 WITH BATTERY BACK-UP DIMMING TO 10%	LITHONIA	IBG-18000LM-HEF-AFL-GND-MVOLT-GZ10-40K-80CRI-E 10W-ROTO-150DEG-H BBS36-WGIBG26	METALUX #LHB COLUMBIA #PEL4	SUSPENDED	4000K LED 80CRI	18000	144	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
K7	2X4 RECESSED SEALED WET LOCATION LED TROFFER, STEEL HOUSING, PAINTED AFTER FABRICATION, CORROSION RESISTANT FINISH, GASKETED ALUMINUM DOOR FRAME, DIFFUSED ACRYLIC LENS	LITHONIA	2WRTL-F-L48-7000LM-AFL-MD-MVOLT-GZ1-40K-80CRI	DAYBRITE #K1, FAIL-SAFE #GRW	RECESSED	4000K LED 80CRI	7000	52	277	
K7E	SAME AS TYPE K7 WITH BATTERY BACK-UP	LITHONIA	2WRTL-G-L48-7000LM-AFL-MD-MVOLT-GZ1-40K-80CRI-IE10WLCP	DAYBRITE #K1, FAIL-SAFE #GRW	RECESSED	4000K LED 80CRI	7000	52	277	
MW	0.6-INCH RECESSED MILLWORK LINEAR WITH REMOTE POWER SUPPLY AND DIFFUSE LENS WITH LOUVERS	PURE EDGE	LCMW.6-7W-72-DLW-40K-WH	DADO, QTRAN	RECESSED	4000K LED 80CRI	1750	42	277	
OWP1	LED WALL PACK, DIE CAST ALUMINUM HOUSING POWER COAT FINISH, GASKETED, WIDE THROW, VANDAL GUARD, WITH BATTERY BACK-UP AND INTEGRAL PHOTOCELL	LITHONIA	WDGE2-LED-P2-40K-80CRI-VW-MVOLT-E10WH-PE	LUMARK #AXC, MCGRAW EDISON #IST	SURFACE	4000K LED 80CRI	2000	19	277	
OWP2	LED WALL PACK, DIE CAST ALUMINUM HOUSING POWER COAT FINISH, GASKETED, FORWARD THROW, VANDAL GUARD, WITH BATTERY BACK-UP AND INTEGRAL PHOTOCELL	LITHONIA	WDGE2-LED-P2-40K-80CRI-VF-MVOLT-E10WH-PE	LUMARK #AXC, MCGRAW EDISON #IST	SURFACE	4000K LED 80CRI	2000	19	277	
PL6	6FT PENDANT LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	S4PID-8FT-80CRI-40K-600LMF-I80CRI-I40K-I300LMF-SCT-MIN1-FLL-MVOLT-ZT	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	600 L/FT DOWN, 300 L/FT UP	40	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL6D	SAME AS TYPE PL6 WITH DAYLIGHT SENSOR	MARK	S4PID-8FT-80CRI-40K-600LMF-I80CRI-I40K-I300LMF-SCT-MIN1-FLL-MVOLT-ZT-ADC	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	600 L/FT DOWN, 300 L/FT UP	40	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL6E	SAME AS TYPE PL6 WITH BATTERY BACK-UP	MARK	S4PID-8FT-80CRI-40K-600LMF-I80CRI-I40K-I300LMF-SCT-MIN1-FLL-MVOLT-E10WLCP-ZT	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	600 L/FT DOWN, 300 L/FT UP	40	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL8	8FT PENDANT LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	S4PID-8FT-80CRI-40K-600LMF-I80CRI-I40K-I300LMF-SCT-MIN1-FLL-MVOLT-ZT	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	600 L/FT DOWN, 300 L/FT UP	53	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL8-2	8FT DIRECT PENDANT LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	S4PD-8FT-MSL8-80CRI-40K-800LMF-SCT-MIN1-FLL-MVOLT-ZT	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	800 L/FT DOWN	51	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL8-2E	SAME AS TYPE PL8-2 WITH BATTERY BACK-UP	MARK	S4PD-8FT-80CRI-40K-800LMF-SCT-MIN1-FLL-MVOLT-E10WLCP-ZT	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	800 L/FT	51	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL8D	SAME AS TYPE PL8 WITH DAYLIGHT SENSOR	MARK	S4PID-8FT-80CRI-40K-600LMF-I80CRI-I40K-I300LMF-SCT-MIN1-FLL-MVOLT-ZT-ADC	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	600 L/FT DOWN, 300 L/FT UP	53	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
PL8E	SAME AS TYPE PL8 WITH BATTERY BACK-UP	MARK	S4PID-8FT-80CRI-40K-600LMF-I80CRI-I40K-I300LMF-SCT-MIN1-FLL-MVOLT-E10WLCP-ZT	AXIS #BEAM4 NEO-RAY	SUSPENDED	4000K LED 80CRI	600 L/FT DOWN, 300 L/FT UP	53	277	SEE LIGHTING PLANS FOR MOUNTING HEIGHT
RL4	4FT RECESSED LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	SL4L-4FT-FLP-80CRI-40K-600LMF-MIN1-277-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	600 L/FT	36	277	
RL6	6FT RECESSED LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	SL4L-6FT-FLP-80CRI-40K-600LMF-MIN1-277-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	600 L/FT	36	277	
RL6-2	6FT RECESSED LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	SL4L-6FT-FLP-80CRI-40K-800LMF-MIN1-277-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	800 L/FT	48	277	
RL6E	SAME AS TYPE RL6 WITH BATTERY BACK-UP	MARK	SL4L-6FT-FLP-80CRI-40K-600LMF-MIN1-277-E10WLCP-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	600 L/FT	36	277	
RL8	8FT RECESSED LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	SL4L-8FT-FLP-80CRI-40K-600LMF-MIN1-277-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	600 L/FT	48	277	
RL8-2	8FT RECESSED LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	SL4L-8FT-FLP-80CRI-40K-800LMF-MIN1-277-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	800 L/FT	64	277	
RL8-2E	SAME AS TYPE RL8-2 WITH BATTERY BACK-UP	MARK	SL4L-8FT-FLP-80CRI-40K-800LMF-MIN1-277-ZT-E10WLCP	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	800 L/FT	64	277	
RL8E	SAME AS TYPE RL8 WITH BATTERY BACK-UP	MARK	SL4L-8FT-FLP-80CRI-40K-600LMF-MIN1-277-ZT-E10WLCP	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	600 L/FT	48	277	
RL12	12 FT RECESSED LINEAR LED, 4-INCH APERTURE, STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FROSTED ACRYLIC LENS, HIGH REFLECTANCE STEEL REFLECTOR	MARK	SL4L-12FT-FLP-80CRI-40K-400LMF-MIN1-277-ZT	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	400 L/FT	48	277	
RL12E	SAME AS TYPE RL12 WITH BATTERY BACK-UP	MARK	SL4L-12FT-FLP-80CRI-40K-400LMF-MIN1-277-ZT-E10WLCP	AXIS #BEAM4 NEO-RAY	RECESSED	4000K LED 80CRI	400 L/FT	48	277	
S1	36" DECORATIVE ROUND SURFACE MOUNT LED FIXTURE	LUMENWERX	POROS-36IN-ULO-3H-LED-80-5500-40-UNV-D1-1-SUR-XX	TGS #SOLAR, PRUDENTIAL #GAZE	SURFACE	4000K LED 80CRI	5500	37	277	ARCHITECT TO SPECIFY FINISH
S2	SAME AS TYPE S1 WITH MODIFIED LUMEN PACKAGE	LUMENWERX	POROS-36IN-ULO-3H-LED-80-8000-40-UNV-D1-1-SUR-XX	TGS #SOLAR, PRUDENTIAL #GAZE	SURFACE	4000K LED 80CRI	8000	37	277	ARCHITECT TO SPECIFY FINISH
VP2	2FT LED LOW PROFILE ENCLOSED AND GASKETED VAPORTIGHT STRIP, FIBERGLASS HOUSING, ACRYLIC LENS	LITHONIA	DMW2-L24-3000LM-ACL-MD-MVOLT-40K-80CRI	METALUX, DAY-BRITE	SURFACE	4000K LED 80CRI	3000	27	277	
W4	4FT LED SURFACE MOUNTED LIGHT, EXTRUDED ACRYLIC LENS, STEEL HOUSING, WITH BATTERY BACK-UP AND INTEGRAL OCCUPANCY SENSOR	PRUDENTIAL	FLAIR PRO-LED40-LO-4'-SAL-UNV-SUR-ND-EMHE-205-STEP	AXIS #AIR, METALUX #SNLED	SURFACE	4000K LED 80CRI	500/FT	15	277	
W4E	4FT LED SURFACE MOUNTED LIGHT, EXTRUDED ACRYLIC LENS, STEEL HOUSING, WITH EMERGENCY BATTERY	PRUDENTIAL	FLAIR PRO-LED40-LO-4'-SAL-UNV-SUR-ND-EMHE	AXIS #AIR, METALUX #SNLED	SURFACE	4000K LED 80CRI	500/FT	15	277	
W8	8FT LED SURFACE MOUNTED LIGHT, EXTRUDED ACRYLIC LENS, STEEL HOUSING, WITH BATTERY BACK-UP AND INTEGRAL OCCUPANCY SENSOR	PRUDENTIAL	FLAIR PRO-LED40-LO-8'-SAL-UNV-SUR-ND-EMHE-205-STEP	AXIS #AIR, METALUX #SNLED	SURFACE	4000K LED 80CRI	500/FT	30	277	
W8-2	8FT LED SURFACE MOUNTED LIGHT, EXTRUDED ACRYLIC LENS, STEEL HOUSING, WITH BATTERY BACK-UP AND INTEGRAL OCCUPANCY SENSOR	MARK	S4WD-8FT-90CRI-40K-600LMF-SCT-MIN1-FLL-MVOLT-E10WLCP-ZT	AXIS #BEAM4, NEO-RAY	SURFACE	4000K LED 90CRI	600/FT	37	277	
X1	EDGE-LIT UNIVERSAL MOUNT EXIT SIGN WITH RED LETTERING, SINGLE FACE, WITH BATTERY BACK-UP	LITHONIA	EDG-1-R-EL	SURE-LITES, DUAL-LITE	UNIVERSAL	LED	N/A	4	277	
X2	EDGE-LIT UNIVERSAL MOUNT EXIT SIGN WITH RED LETTERING, DOUBLE FACED, WITH BATTERY BACK-UP	LITHONIA	EDG-2-R-EL	SURE-LITES, DUAL-LITE	UNIVERSAL	LED	N/A	4	277	

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

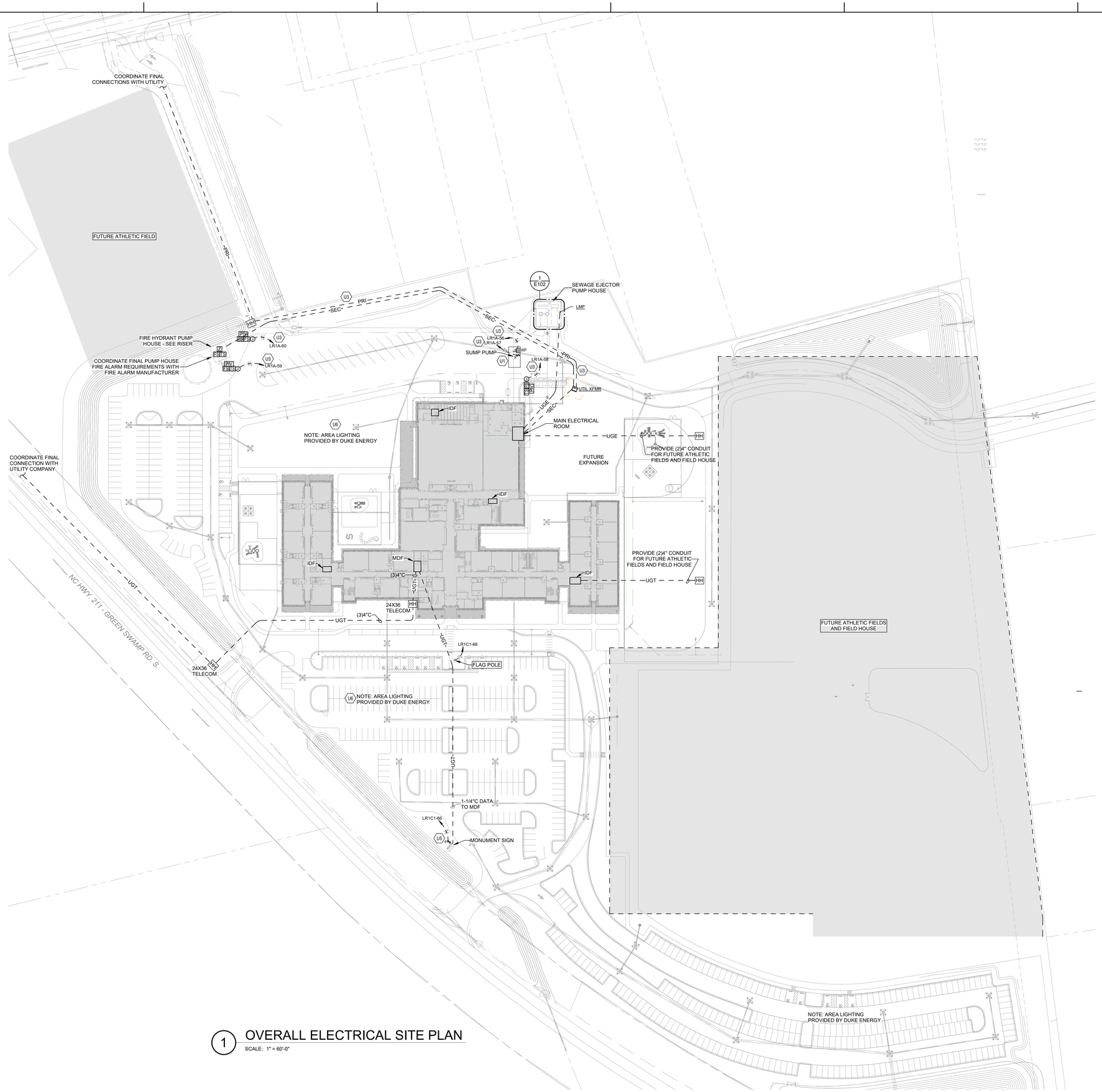
Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ELECTRICAL SCHEDULES

ORIG SUBMISSION: 2025.09.24

SHEET:
E002

ISSUE FOR PERMIT / BIDDING



1 OVERALL ELECTRICAL SITE PLAN
SCALE: 1" = 60'-0"

GENERAL NOTES (SITE):

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 UTILITY 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. CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. 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.

KEYNOTES:

U1 GEOTHERMAL VAULT. REFER TO MECHANICAL FOR MORE INFORMATION.

U3 COORDINATE UNDERGROUND CONDUIT ROUTING WITH GEOTHERMAL WELL FIELD LOCATIONS.

U5 PROVIDE NEMA-3R DISCONNECT AND DEDICATED CIRCUIT FOR SCHOOL SIGN BACK-LIT LETTERING. COORDINATE DISCONNECT MOUNTING LOCATION AND SIGN CIRCUITING WITH CIVIL AND ARCHITECTURAL DRAWINGS.

U6 CONTRACTOR TO COORDINATE PHASING OF SITE UTILITY WORK AND DUKE ENERGY SITE LIGHTING INSTALLATION WITH PAVEMENT INSTALLATION.

UTILITY LEGEND

- PRI — UNDERGROUND ELECTRICAL UTILITY PRIMARY
- SEC — UNDERGROUND ELECTRICAL SERVICE SECONDARY
- UGE — UNDERGROUND ELECTRICAL FEEDER
- UGT — UNDERGROUND TELECOMMUNICATIONS
- UNDERGROUND BRANCH CIRCUIT
- HH — HANDHOLE, MIN SIZE INDICATED, REFER TO DETAILS

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CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

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Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

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C	2025.07.14	50% CD
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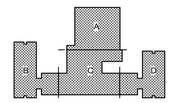
KEY PLAN:



SHEET NAME:
ELECTRICAL SITE UTILITY PLAN

ORIG SUBMISSION: 2025.09.24

SHEET:
E101

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE

GENERAL NOTES (SITE):

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.

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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.

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J. CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. 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.

KEYNOTES:

U4 PROVIDE 30A/250V/3P NON-FUSED DISCONNECT IN NEMA-4X TO SERVE PUMP STATION GRINDER PUMPS. COORDINATE DISCONNECT LOCATION WITH ALL TRADES AND MAINTAIN ALL REQUIRED CLEARANCES.

PANELBOARD AND WIRING SCHEDULE

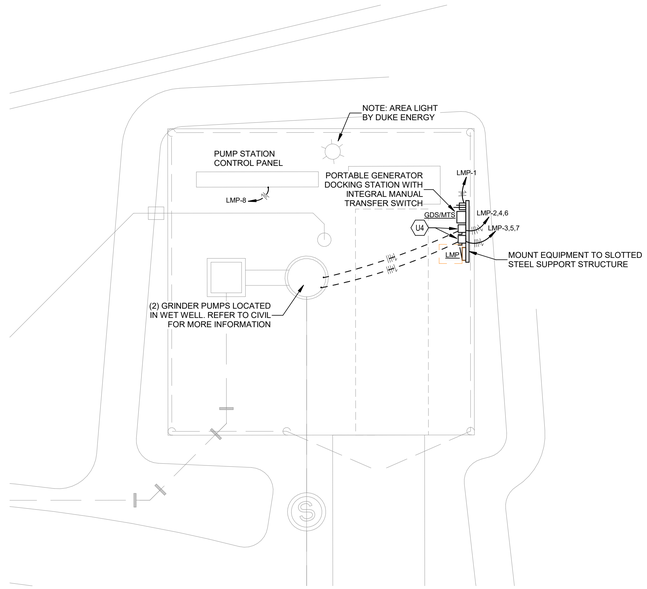
NAME: LMP | **BUS RATING:** 100 A | **SPD:** No | **FEED THRU LUGS:** No
FED FROM: GDS/MTS | **VOLTAGE:** 208Y/120V,3Ø,4W | **MIN. SCCR (kA):** 10 | **MULTI-SECTION:** No
MOUNTING: SURFACE | **MAINS TYPE:** MCB | **AVAIL. FAULT (kA):** 2.5

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - PUMP STATION					20	1	1	0.2	1.7					2							
STATION PUMP 1		#10	#10	3/4"	25	3	3			1.7	1.7			4	3	25	3/4"	#10	#10		STATION PUMP 2
							5					1.7	1.7	6							
							7	1.7	0.5					8	1	20					CONTROL PANEL
SPARE		--	--	--	20	1	9			0.0	0.0			10	1	20	--	--	--		SPARE
SPACE		--	--	--	--	1	11					--	--	12	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	13	--	--					14	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	15			--	--			16	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	17					--	--	18	1	--	--	--	--		SPACE
			TOTAL LOAD (kVA):					4.1 kVA		3.5 kVA		3.5 kVA									
			TOTAL CURRENT (A):					35 A		29 A		29 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
EQUIP	10900 VA	100.00%	10900 VA
REC	180 VA	100.00%	180 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD:	11 kVA
TOTAL ESTIMATED DEMAND:	11 kVA
TOTAL CONNECTED CURRENT:	31 A
TOTAL ESTIMATED DEMAND CURRENT:	31 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE PANELBOARD WITH NEMA-3R ENCLOSURE.



1 ENLARGED PLAN - SEWAGE EJECTOR PUMP HOUSE
SCALE: 1/8" = 1'-0"

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

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Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
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B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ELECTRICAL SITE - ENLARGED PLANS

ORIG SUBMISSION: 2025.09.24

SHEET:
E102

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES (INTERCONNECTION):

A. VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. NOTIFY ARCHITECT AND ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO INSTALLATION.

B. SUPPORT ALL WORK FROM BUILDING STRUCTURE, NOT FROM THE WORK OF OTHER TRADES.

C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

D. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.

E. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.

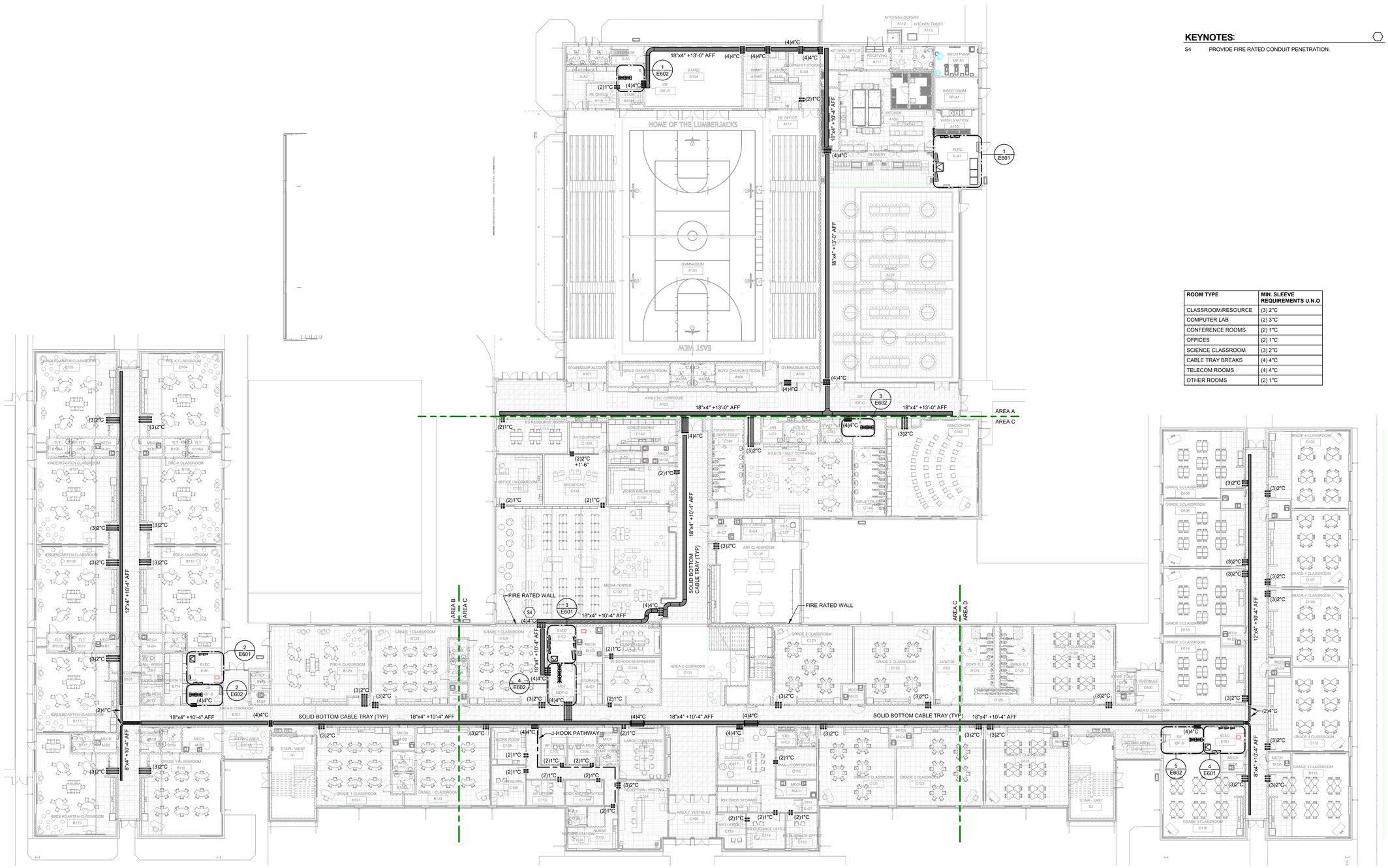
F. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.

G. CABLE TRAY NOR ITS SUPPORTS SHALL BE USED TO SUPPORT ANY ELECTRICAL CONDUIT, MC CABLE, ETC. THEY ARE TO HAVE THEIR OWN INDEPENDANT SUPPORTS.

KEYNOTES:

S4 PROVIDE FIRE RATED CONDUIT PENETRATION.

ROOM TYPE	MIN. SLEEVE REQUIREMENTS U.N.O
CLASSROOM/RESOURCE	(3) 2"C
COMPUTER LAB	(2) 3"C
CONFERENCE ROOMS	(2) 1"C
OFFICES	(2) 1"C
SCIENCE CLASSROOM	(3) 2"C
CABLE TRAY BREAKS	(4) 4"C
TELECOM ROOMS	(4) 4"C
OTHER ROOMS	(2) 1"C



1 OVERALL PLAN - LEVEL 1 - INTERCONNECTION

SCALE: 1/16" = 1'-0"

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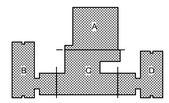
KEY PLAN:



SHEET NAME:
OVERALL INTERCONNECTION PLAN - LEVEL 1

ORIG SUBMISSION: 2025.09.24

SHEET:
E111

ISSUE FOR PERMIT / BIDDING

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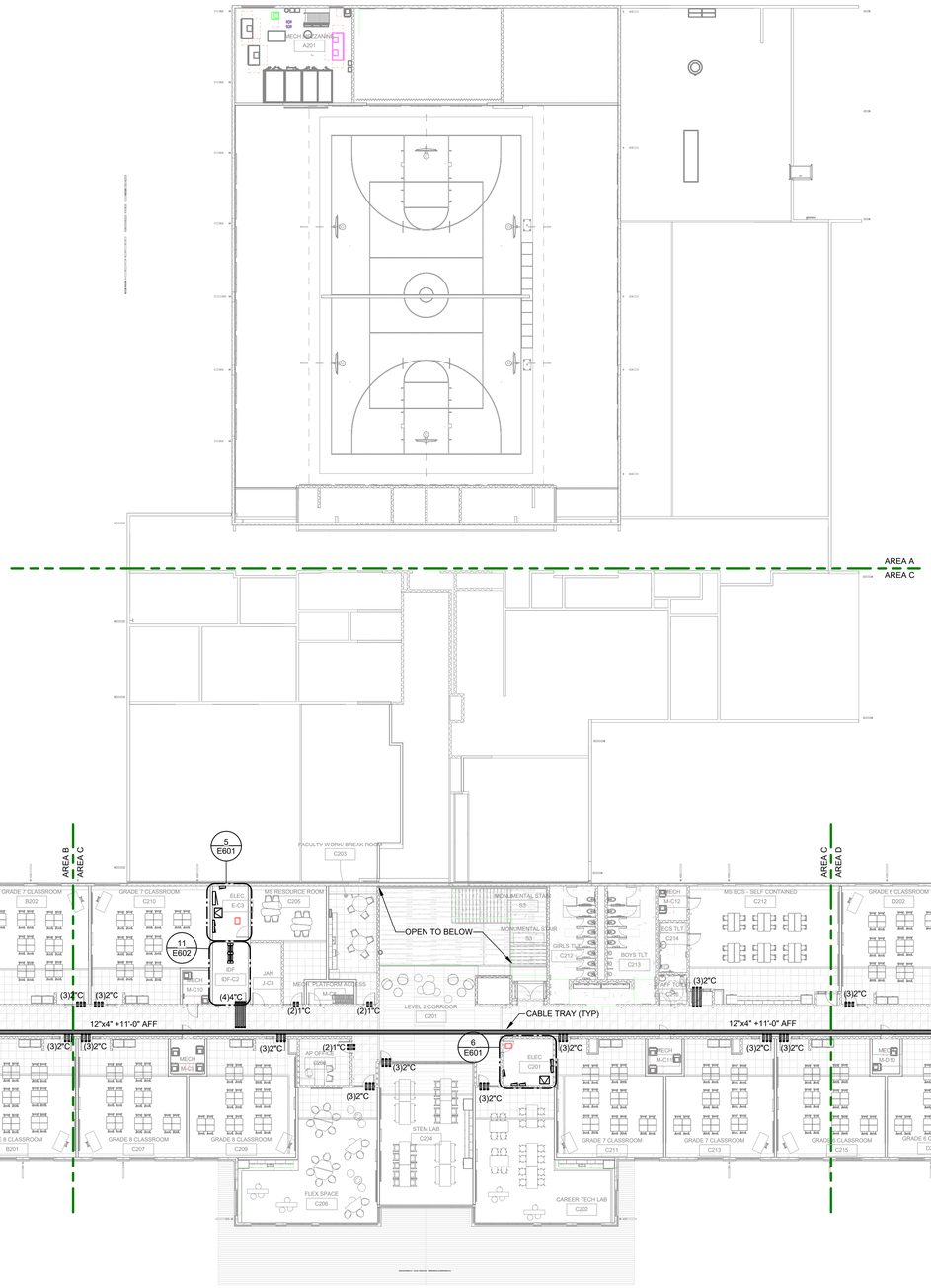
G. CABLE TRAY NOR ITS SUPPORTS SHALL BE USED TO SUPPORT ANY ELECTRICAL CONDUIT, MC CABLE, ETC. THEY ARE TO HAVE THEIR OWN INDEPENDANT SUPPORTS.

KEYNOTES:



ROOM TYPE	MIN. SLEEVE REQUIREMENTS U.N.O
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COMPUTER LAB	(2) 3"C
CONFERENCE ROOMS	(2) 1"C
OFFICES	(2) 1"C
SCIENCE CLASSROOM	(3) 2"C
CABLE TRAY BREAKS	(4) 4"C
TELECOM ROOMS	(4) 4"C
OTHER ROOMS	(2) 1"C

1 OVERALL PLAN - LEVEL 2 - INTERCONNECTION

SCALE: 1/16" = 1'-0"

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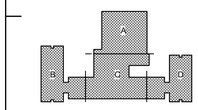

SHEET NAME:
OVERALL INTERCONNECTION PLAN - LEVEL 2

ORIG SUBMISSION: 2025.09.24

SHEET:
E112

ISSUE FOR PERMIT / BIDDING

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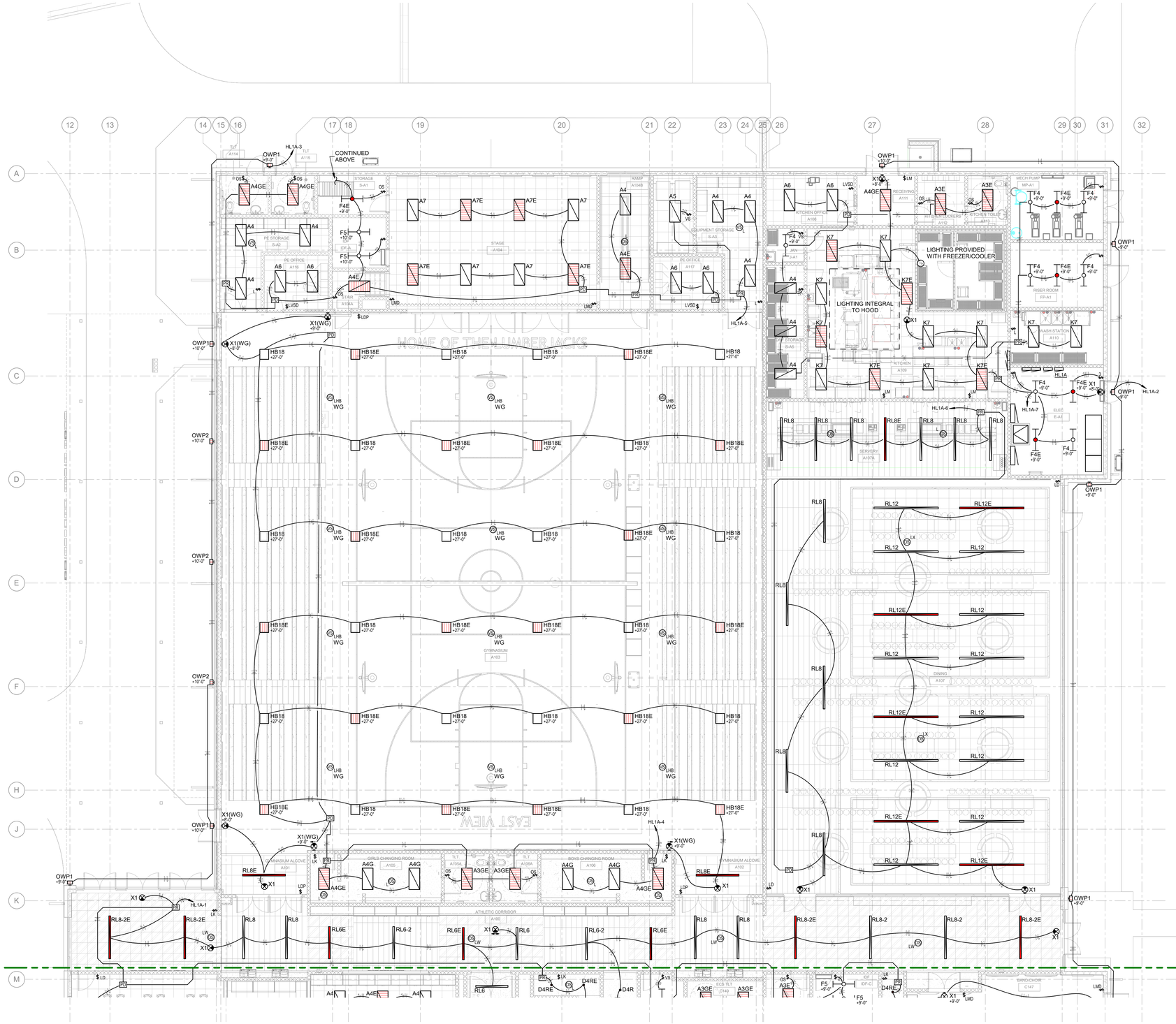

1 LEVEL 1 FLOOR PLAN - LIGHTING - AREA A

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

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

F. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

G. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

H. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

I. AT ALL SUSPENDED LIGHT FIXTURES IN OPEN CEILING AREAS, PROVIDE UNISTRUT FOR FULL LENGTH OF FIXTURE AND ATTACH FIXTURE TO UNISTRUT WITH AIRCRAFT CABLE WITH THREADED TERMINALS. ATTACH UNISTRUT TO BOTTOM OF WIDE FLANGE STRUCTURE AND PAINT.

KEYNOTES:

COLUMBUS COUNTY SCHOOLS

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LS3P

101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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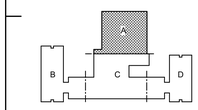
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201.240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:

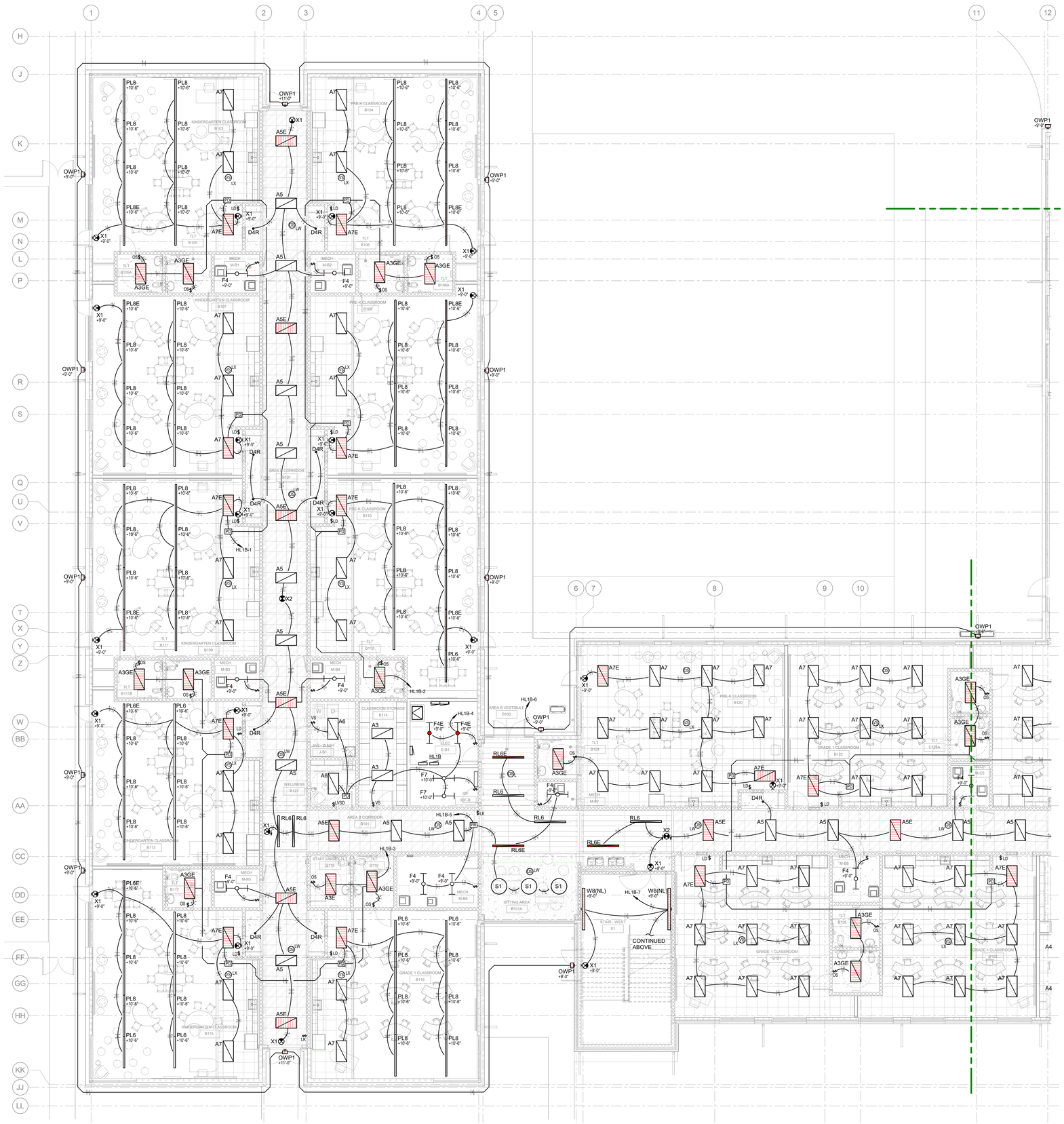


SHEET NAME:
FLOOR PLAN - LEVEL 1 - LIGHTING - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E210

ISSUE FOR PERMIT / BIDDING



1 LEVEL 1 FLOOR PLAN - LIGHTING - AREA B

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

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
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B	2025.04.02	DESIGN DEVELOPMENT
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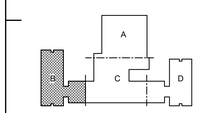
KEY PLAN:

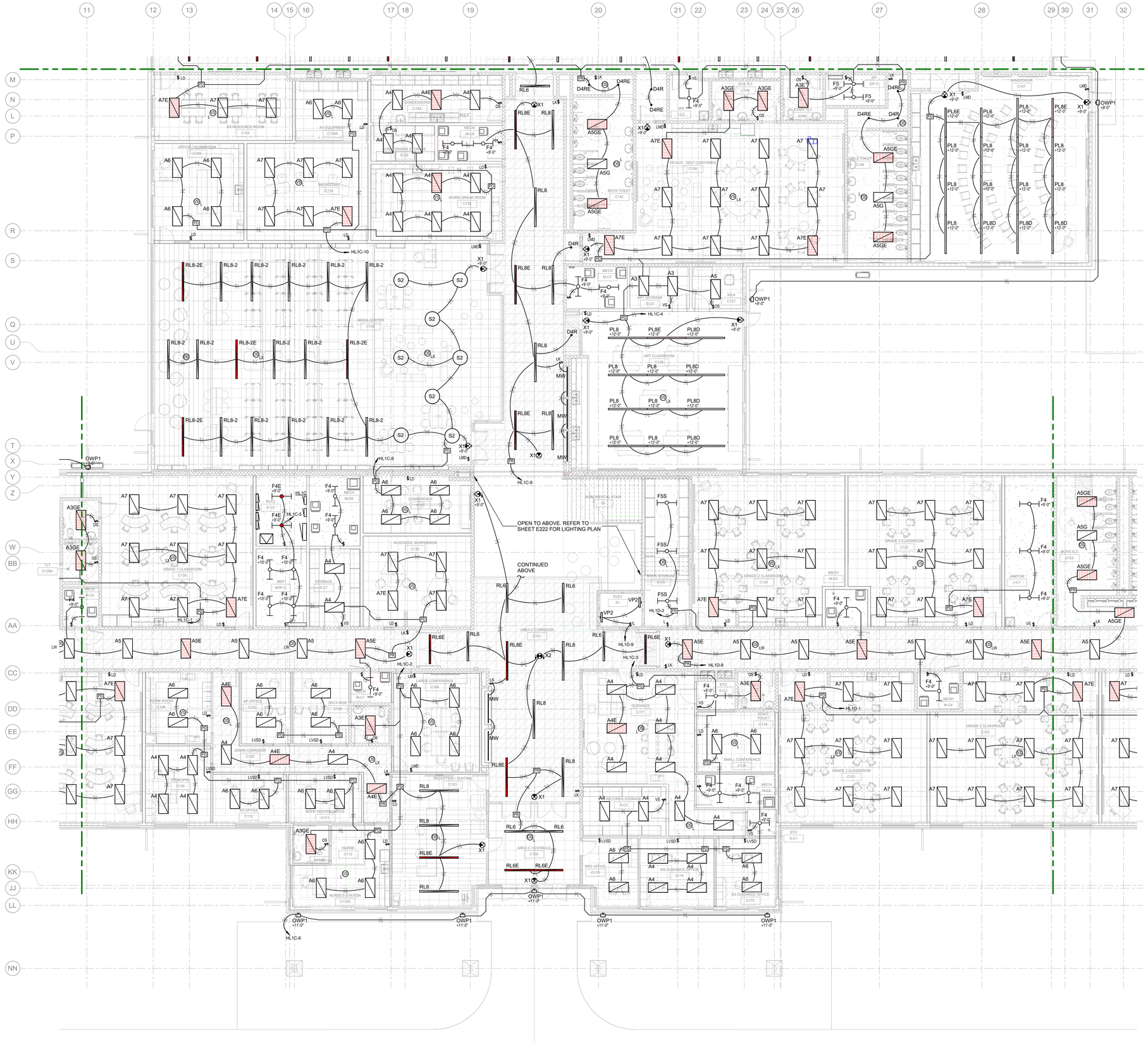


SHEET NAME:
FLOOR PLAN - LEVEL 1 - LIGHTING - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E211

ISSUE FOR PERMIT / BIDDING



1 LEVEL 1 FLOOR PLAN - LIGHTING - AREA C

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

GENERAL NOTES (LIGHTING):

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COLUMBUS COUNTY SCHOOLS PK-8

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Bolton, North Carolina 28423

LS3P PROJECT: 7201.240219

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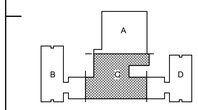
KEY PLAN:



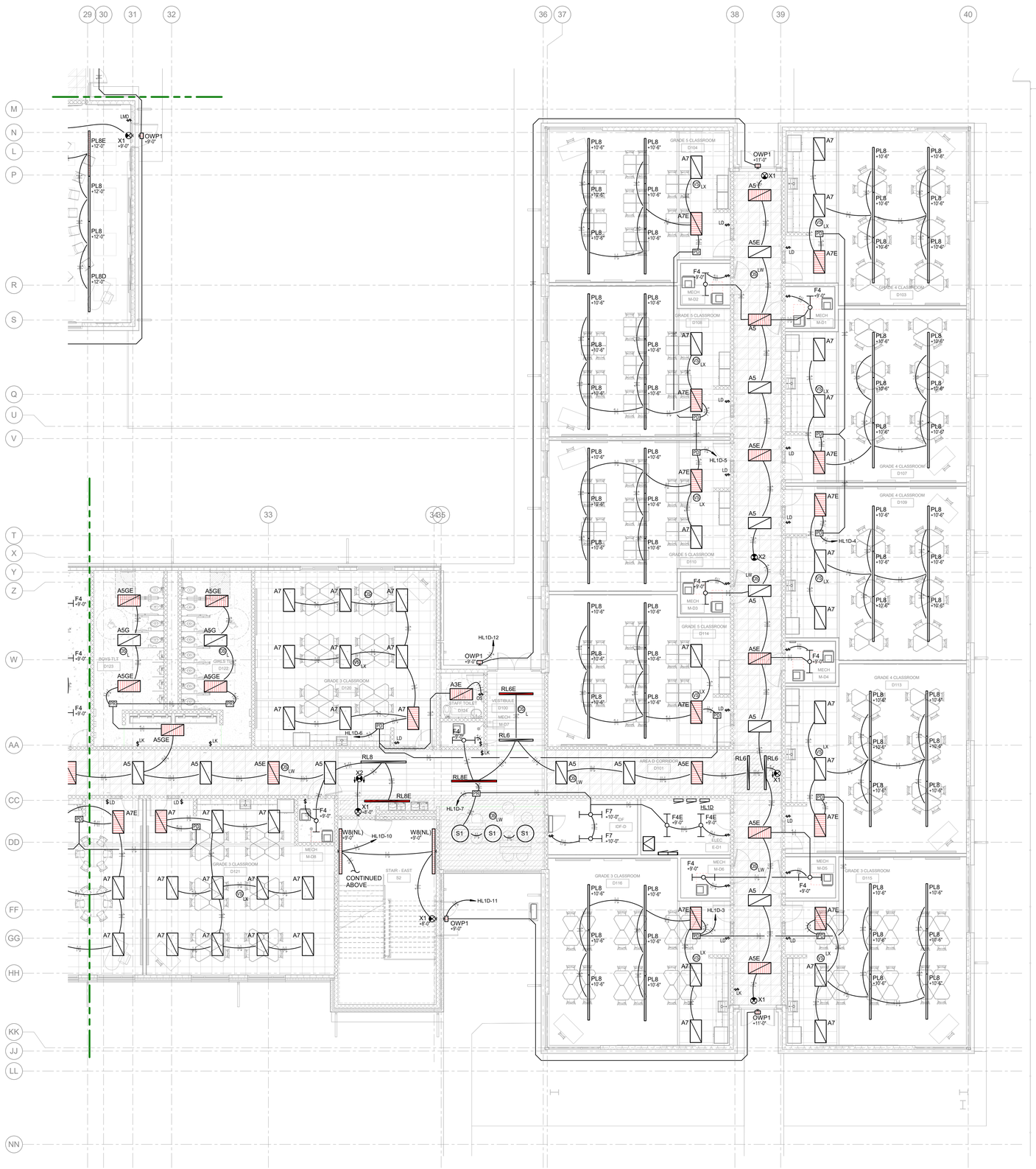
SHEET NAME:
FLOOR PLAN - LEVEL 1 - LIGHTING - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E212

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PLOT SHEETS



1 LEVEL 1 FLOOR PLAN - LIGHTING - AREA D

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

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CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

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Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

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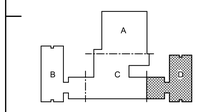


SHEET NAME:
FLOOR PLAN - LEVEL 1 - LIGHTING - AREA D

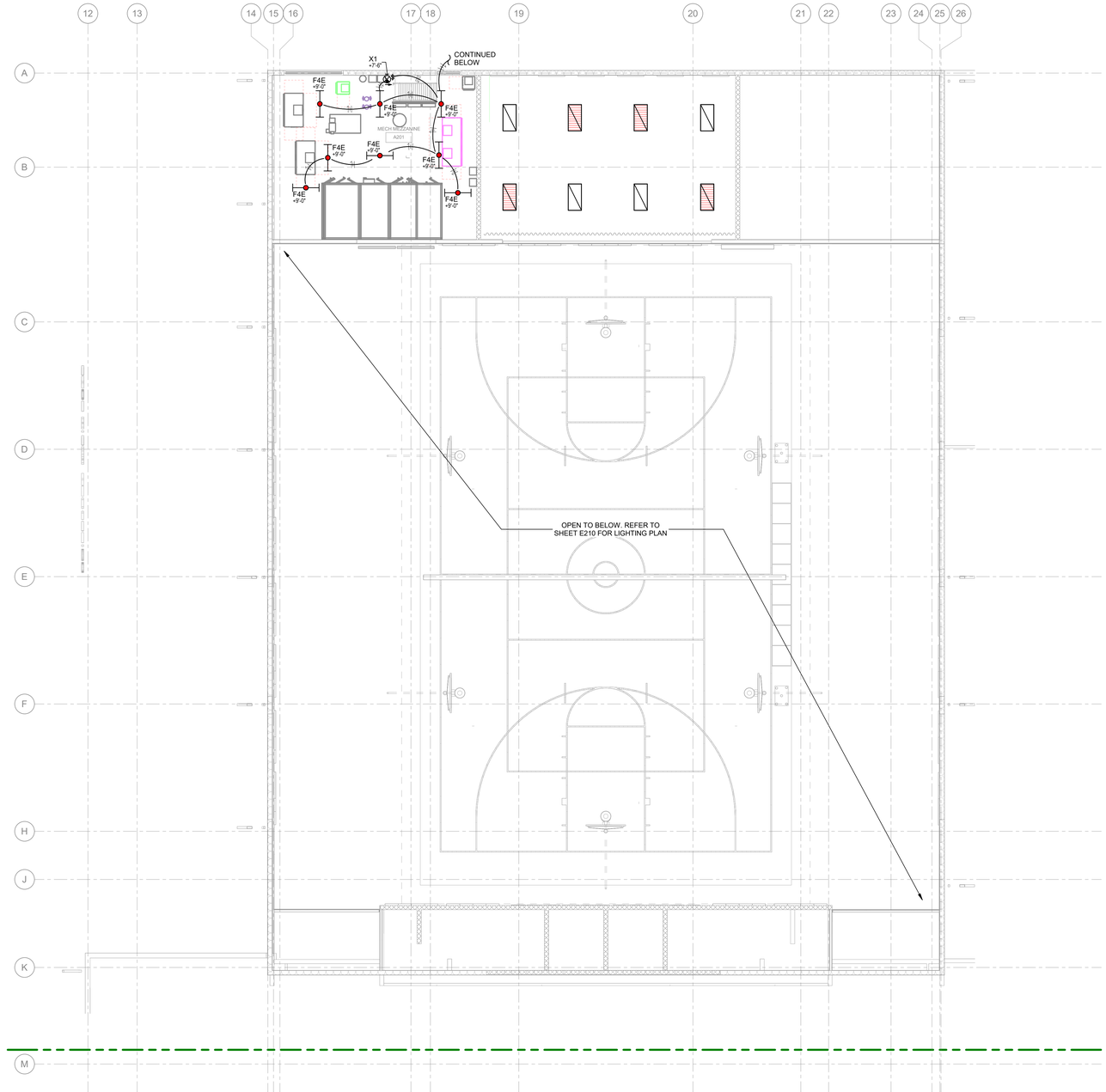
ORIG SUBMISSION: 2025.09.24

SHEET:
E213

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAPER SIZE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE



1 LEVEL 2 FLOOR PLAN - LIGHTING - AREA A

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

GENERAL NOTES (LIGHTING):

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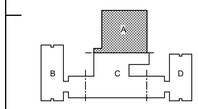
Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



SHEET NAME:
FLOOR PLAN - LEVEL 2 - LIGHTING - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E220

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE

GENERAL NOTES (LIGHTING):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3). AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

D. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.

E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.

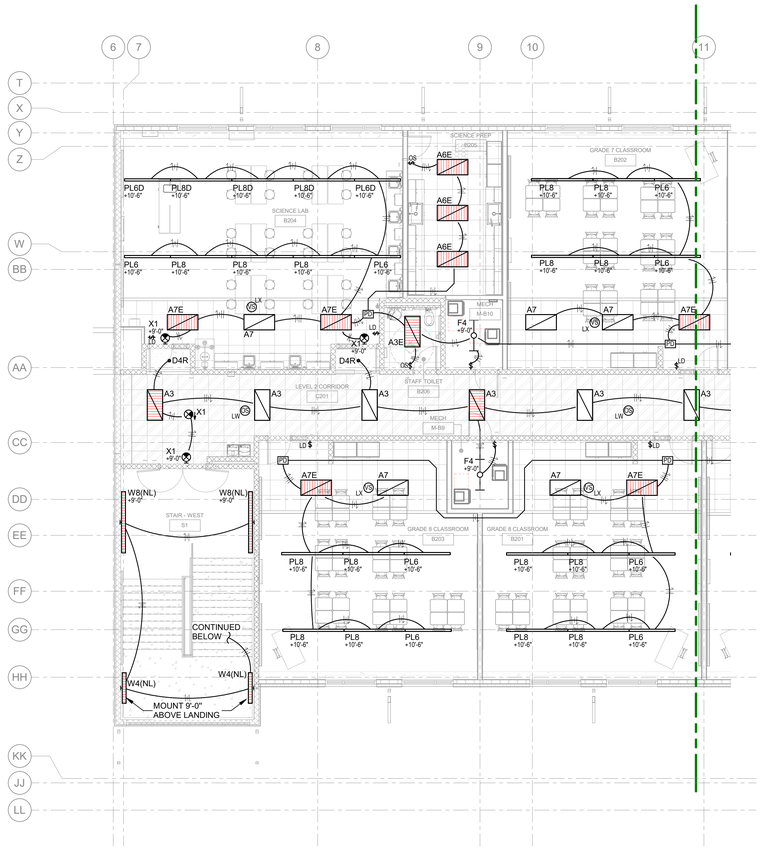
F. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.

G. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

H. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS, AND NIGHT LIGHTS AS REQUIRED.

I. AT ALL SUSPENDED LIGHT FIXTURES IN OPEN CEILING AREAS, PROVIDE UNISTRUT FOR FULL LENGTH OF FIXTURE AND ATTACH FIXTURE TO UNISTRUT WITH AIRCRAFT CABLE WITH THREADED TERMINALS. ATTACH UNISTRUT TO BOTTOM OF WIDE FLANGE STRUCTURE AND PAINT.

KEYNOTES:



1 LEVEL 2 FLOOR PLAN - LIGHTING - AREA B

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

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

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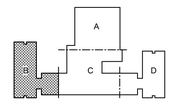

SHEET NAME:
FLOOR PLAN - LEVEL 2 - LIGHTING - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E221

ISSUE FOR PERMIT / BIDDING

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES (LIGHTING):

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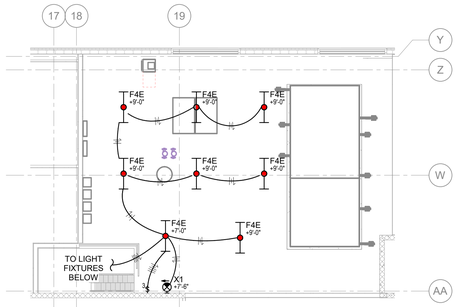
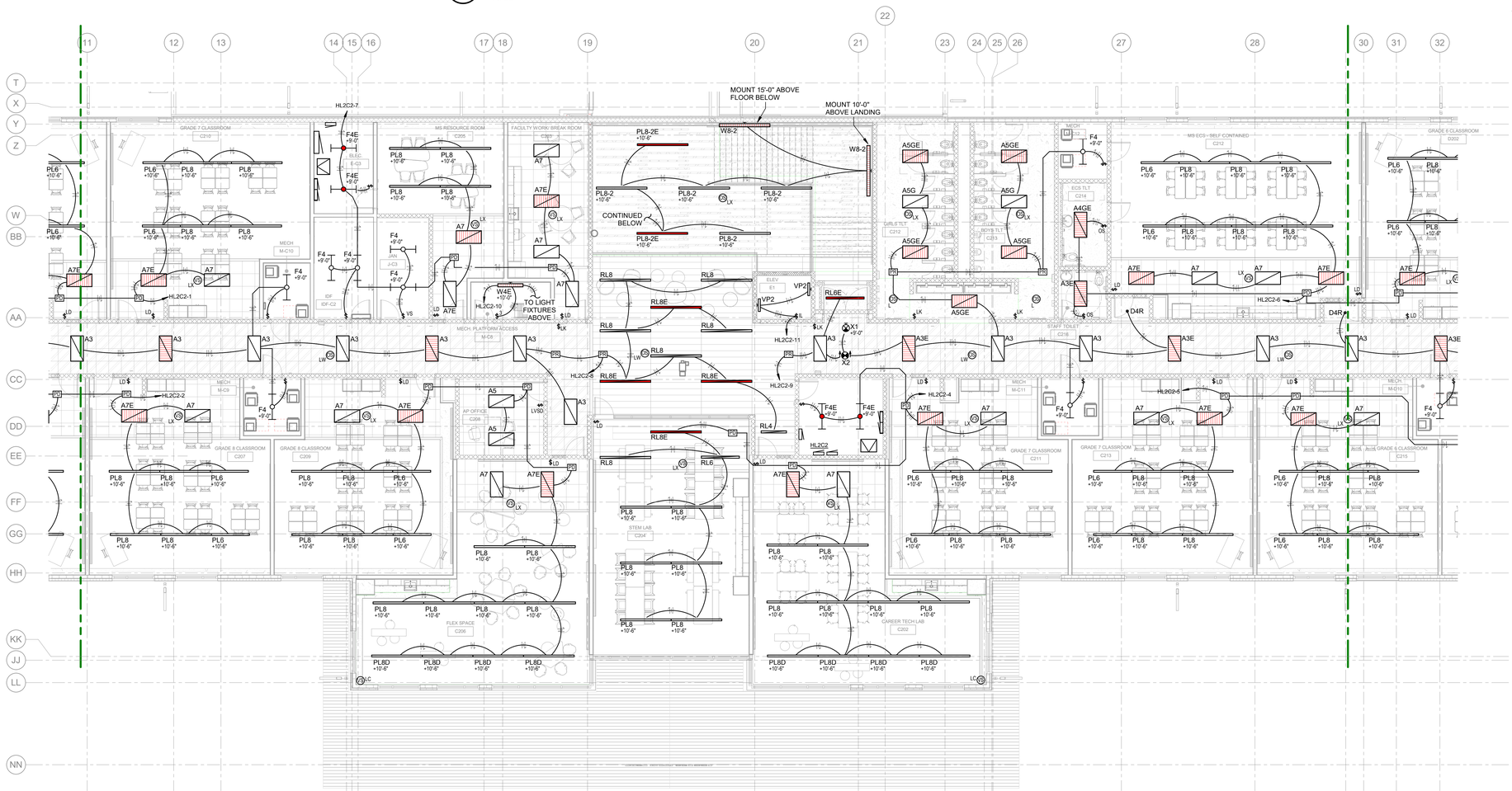


2 MECHANICAL PLATFORM - LIGHTING - AREA C

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



1 LEVEL 2 FLOOR PLAN - LIGHTING - AREA C

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

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

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COLUMBUS COUNTY SCHOOLS PK-8

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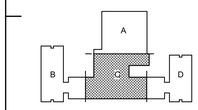

SHEET NAME:
FLOOR PLAN - LEVEL 2 - LIGHTING - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E222

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOTTED SHEETS

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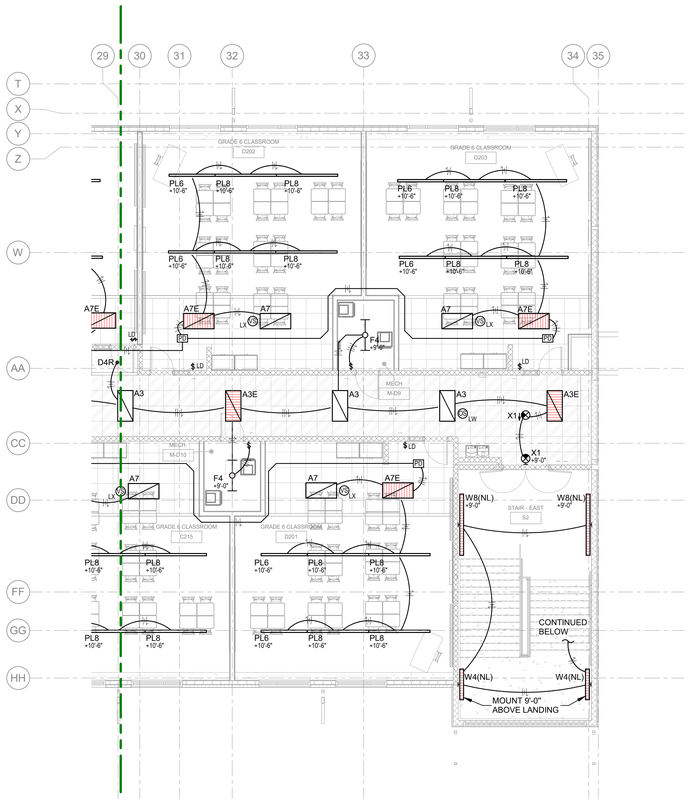

1 LEVEL 2 FLOOR PLAN - LIGHTING - AREA D

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

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COLUMBUS COUNTY SCHOOLS PK-8

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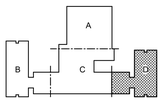

SHEET NAME:
FLOOR PLAN - LEVEL 2 - LIGHTING - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E223

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH WHEN PLOTTED ON ORIGINAL PLOT SIZE

GENERAL NOTES (POWER):

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C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

KEYNOTES:

P7 PROVIDE 30A/3P HEAVY DUTY NON-FUSED DISCONNECT FOR BLEACHER MOTOR/CONTROLLER CONNECTION. VERIFY ALL REQUIREMENTS AND EXACT LOCATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.

P8 COORDINATE WITH BLEACHER VENDOR TO PROVIDE CORD DRAPE THRU BLEACHER STRUCTURE TO TRAVEL WITH FOLDING MECHANISM.

P9 BASKETBALL GOAL WINCH CONTROLS. PROVIDE IN RECESSED LOCKABLE ENCLOSURE. REFER TO GYM MOTOR CONTROL PANEL DETAIL FOR MORE INFORMATION.

P10 PROVIDE CONNECTION TO ELECTRIC GOAL WINCH/MOTOR, EXTEND POWER TO KEYED MOTOR SWITCH IN GYM CONTROL PANEL FOR RAISE/LOWER FUNCTION.

P14 ROUTE POWER TO THIS LOCATION TO SERVE VAV BOXES IN THIS AREA.

P18 PROVIDE 30A/2P NEMA-3R NON-FUSED DISCONNECT FOR OWNER PROVIDED LAUNDRY WASHER AND DRYER. COORDINATE FINAL CONNECTION REQUIREMENTS WITH MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.

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

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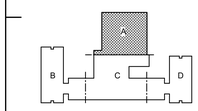


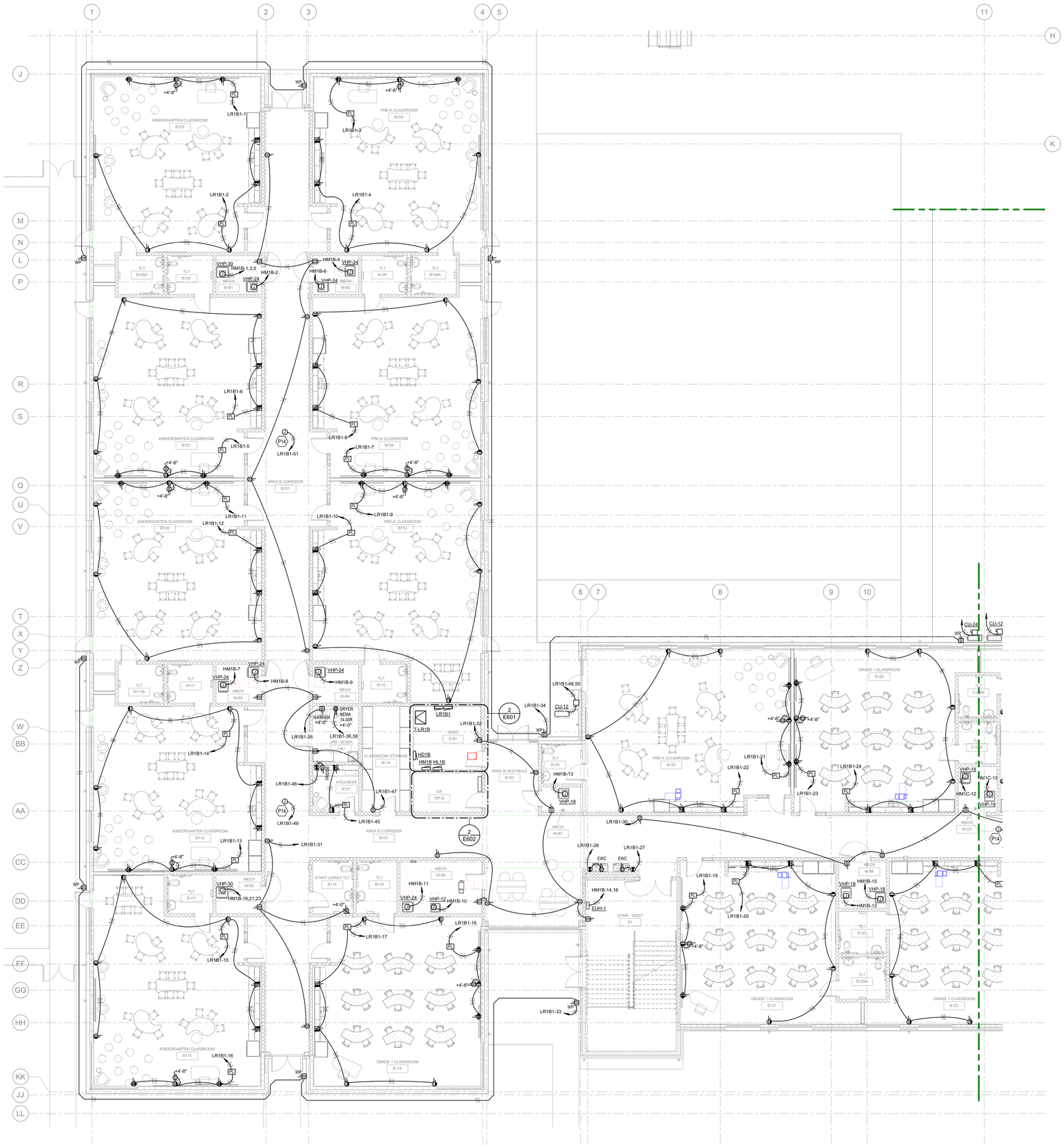
SHEET NAME:
FLOOR PLAN - LEVEL 1 - POWER - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E310

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ORIGINAL PLOT SHEETS



1 LEVEL 1 FLOOR PLAN - POWER - AREA B

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

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NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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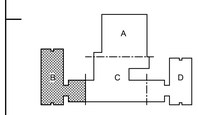
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



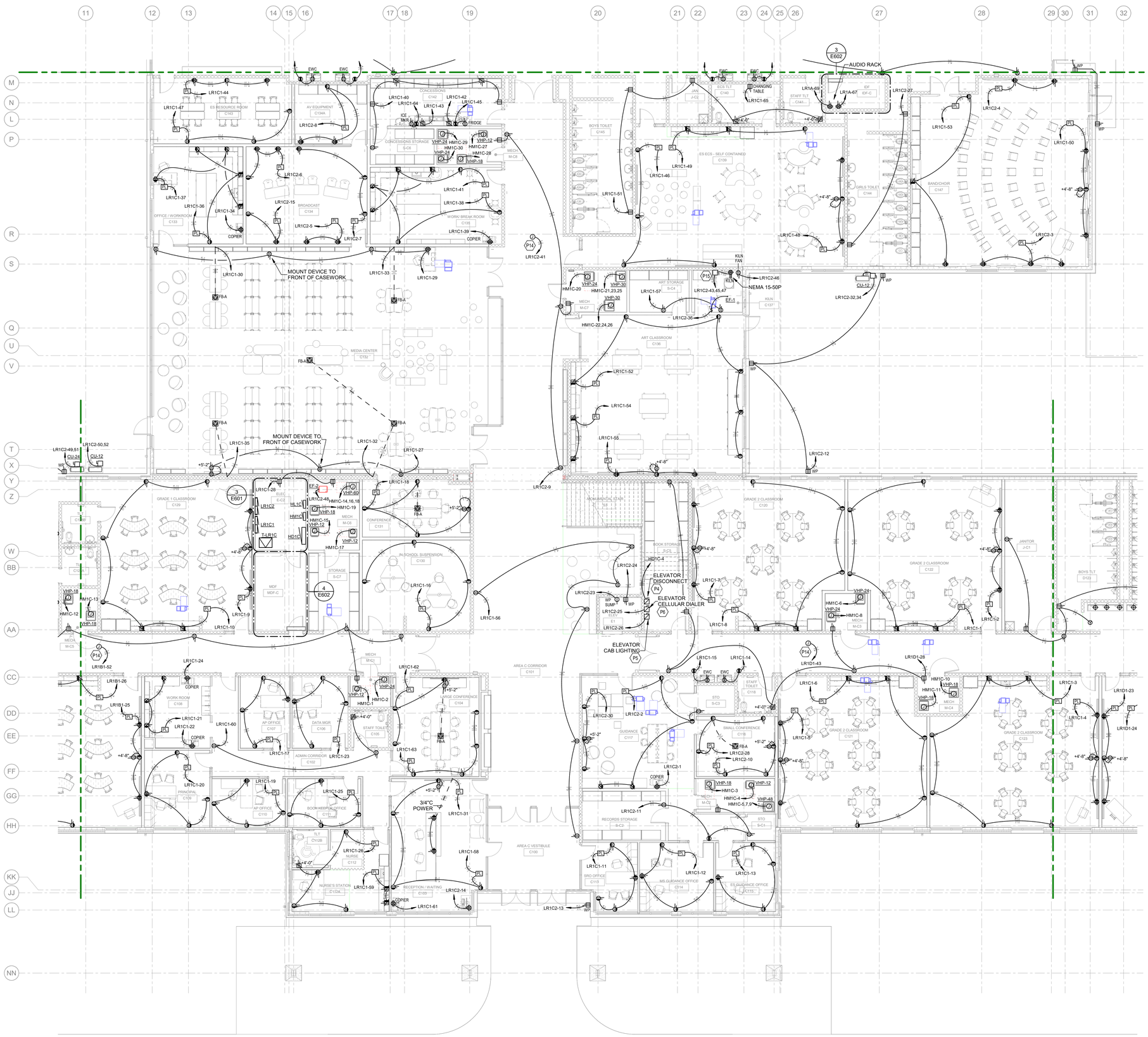
SHEET NAME:
FLOOR PLAN - LEVEL 1 - POWER - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:

E311

ISSUE FOR PERMIT / BIDDING



1 LEVEL 1 FLOOR PLAN - POWER - AREA C

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

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

KEYNOTES:

P4 PROVIDE 480Y, 3-PHASE CONNECTION WITH FUSED ELEVATOR SHUNT TRIP DISCONNECT FOR ELEVATOR CONTROLLER. SEE ELEVATOR POWER ONE-LINE DIAGRAM FOR MORE INFORMATION.

P5 PROVIDE 120V, 30A FUSED DISCONNECT FOR ELEVATOR CAB LIGHTING AND FAN. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.

P6 PROVIDE 120V, 30A FUSED DISCONNECT FOR ELEVATOR CELLULAR DIALER. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.

P14 ROUTE POWER TO THIS LOCATION TO SERVE VAV BOXES IN THIS AREA.

P15 PROVIDE 60A/250V/3P FUSED NEMA-1 DISCONNECT SWITCH TO SERVE NEW EQUIPMENT INDICATED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN. COORDINATE DISCONNECT LOCATION WITH ALL TRADES AND MAINTAIN ALL REQUIRED CLEARANCES.

COLUMBUS COUNTY SCHOOLS

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

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LS3P PROJECT: 7201-240219

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B	2025.04.02	DESIGN DEVELOPMENT
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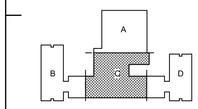
KEY PLAN:



SHEET NAME:
FLOOR PLAN - LEVEL 1 - POWER - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E312

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PLOT SIZE

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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KEYNOTES:

P14 ROUTE POWER TO THIS LOCATION TO SERVE VAV BOXES IN THIS AREA.

1 LEVEL 1 FLOOR PLAN - POWER - AREA D

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

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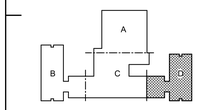


SHEET NAME:
FLOOR PLAN - LEVEL 1 - POWER - AREA D

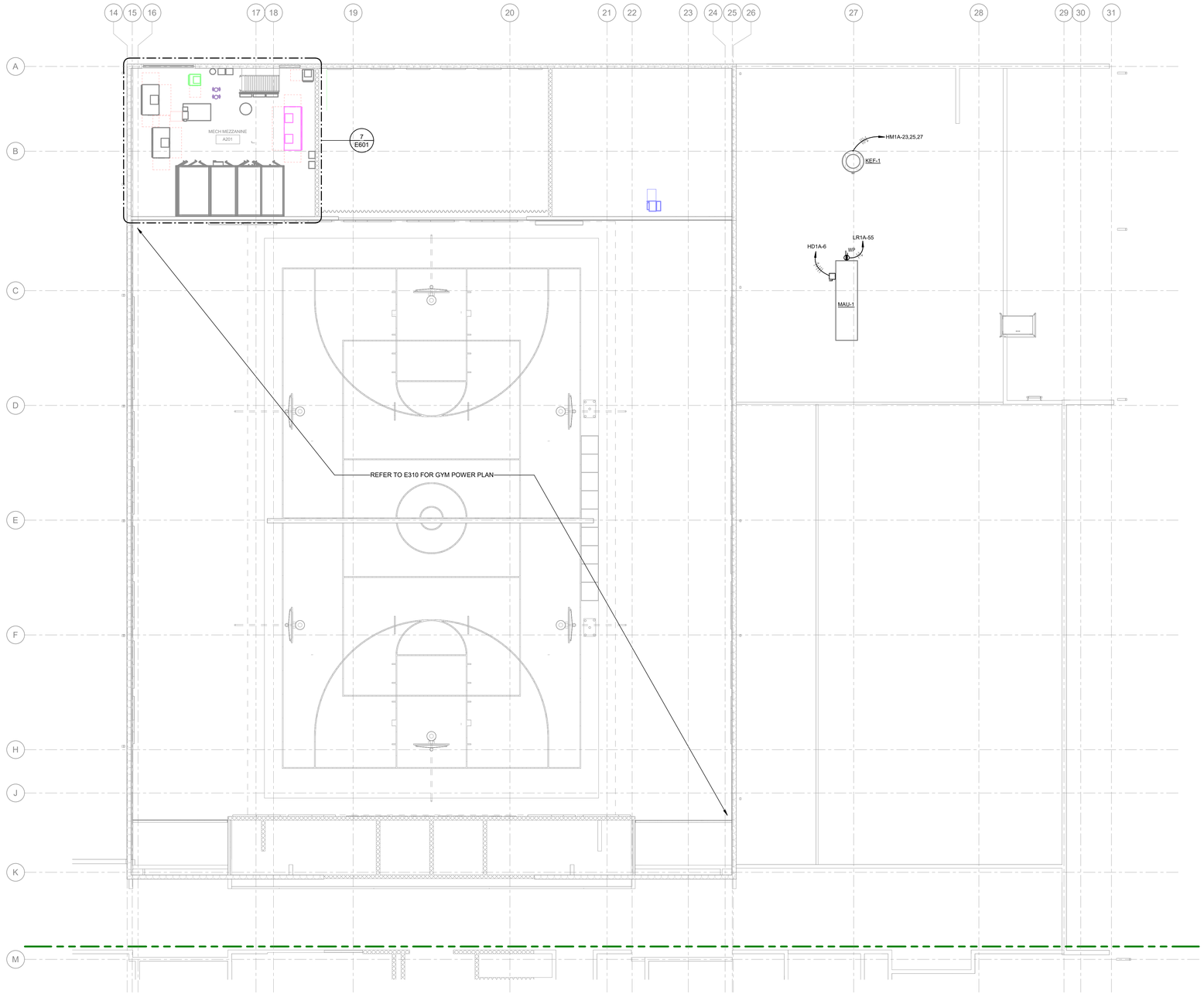
ORIG SUBMISSION: 2025.09.24

SHEET:

E313

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE



1 LEVEL 2 FLOOR PLAN - POWER - AREA A

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

GENERAL NOTES (POWER):

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KEYNOTES:

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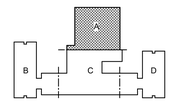

SHEET NAME:
FLOOR PLAN - LEVEL 2 - POWER - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E320

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAPER SIZE

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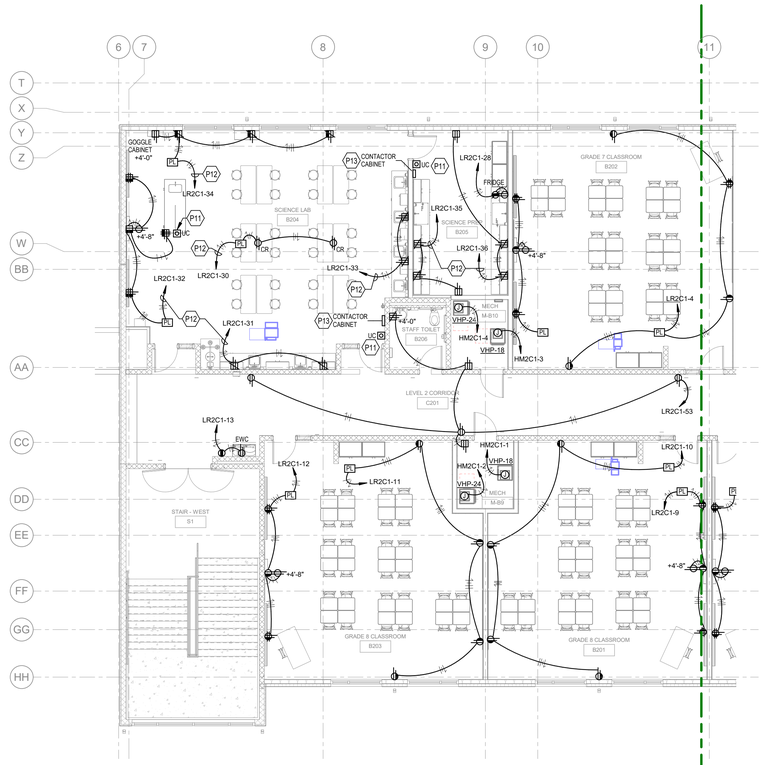
KEYNOTES:

P11 LAB UTILITY CONTROLLER. PROVIDE EMERGENCY SHUTOFF FOR WATER AND ELECTRICAL SERVICES TO SCIENCE LAB AND PREP ROOM. REFER TO LAB UTILITY CONTROLLER DETAIL FOR MORE INFORMATION.

P12 ROUTE CIRCUIT THROUGH CONTACTOR CABINET FOR LAB UTILITY SHUTDOWN.

P13 PROVIDE CONTACTOR CABINETS ABOVE CEILING FOR SCIENCE LAB UTILITY SHUTDOWN SYSTEM.



1 LEVEL 2 FLOOR PLAN - POWER - AREA B

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

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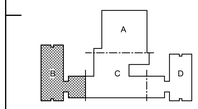

SHEET NAME:
FLOOR PLAN - LEVEL 2 - POWER - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E321

ISSUE FOR PERMIT / BIDDING

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES (POWER):

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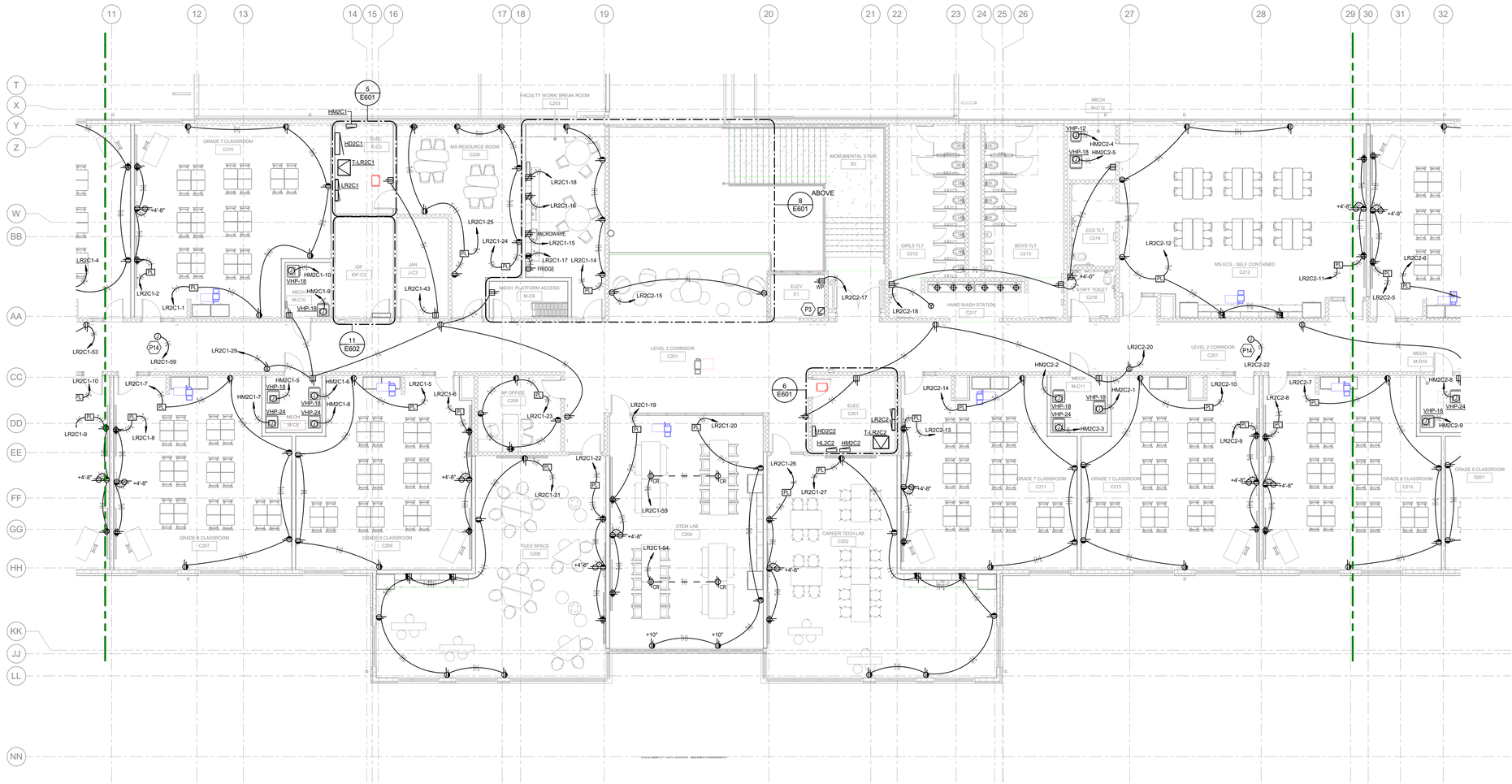
KEYNOTES:

P3 PROVIDE 30A/600V/3P FUSIBLE AUXILIARY DISCONNECT IN ELEVATOR SHAFT. SEE ELEVATOR POWER ONE-LINE DIAGRAM FOR MORE INFORMATION. COORDINATE EXACT SIZE AND REQUIREMENTS WITH THE ELEVATOR MANUFACTURER.

P14 ROUTE POWER TO THIS LOCATION TO SERVE VAV BOXES IN THIS AREA.



1 LEVEL 2 FLOOR PLAN - POWER - AREA C

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

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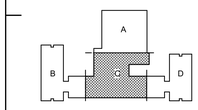

SHEET NAME:
FLOOR PLAN - LEVEL 2 - POWER - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E322

ISSUE FOR PERMIT / BIDDING

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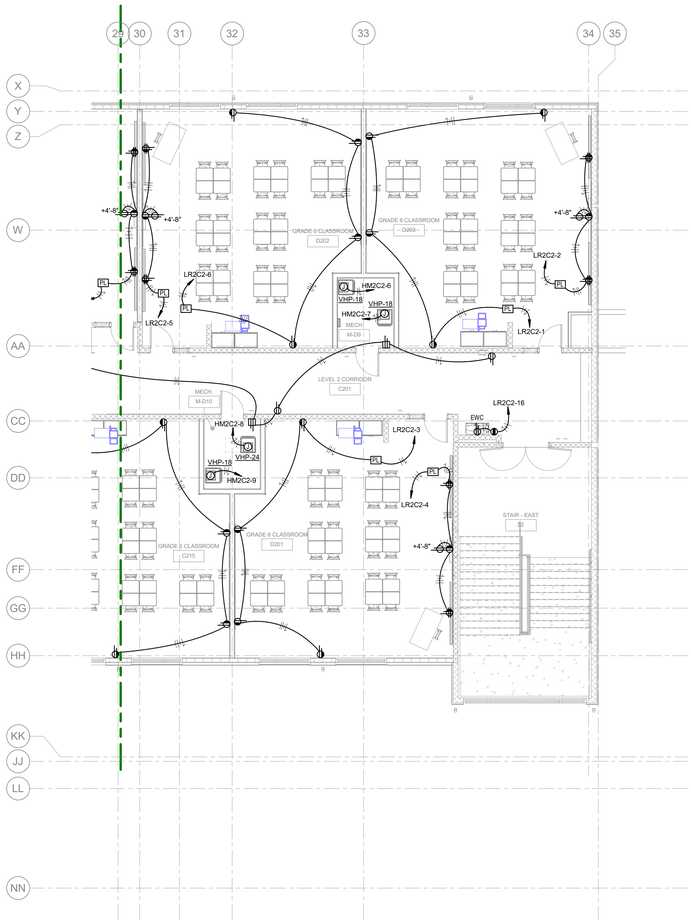

1 LEVEL 2 FLOOR PLAN - POWER - AREA D

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

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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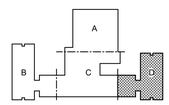
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



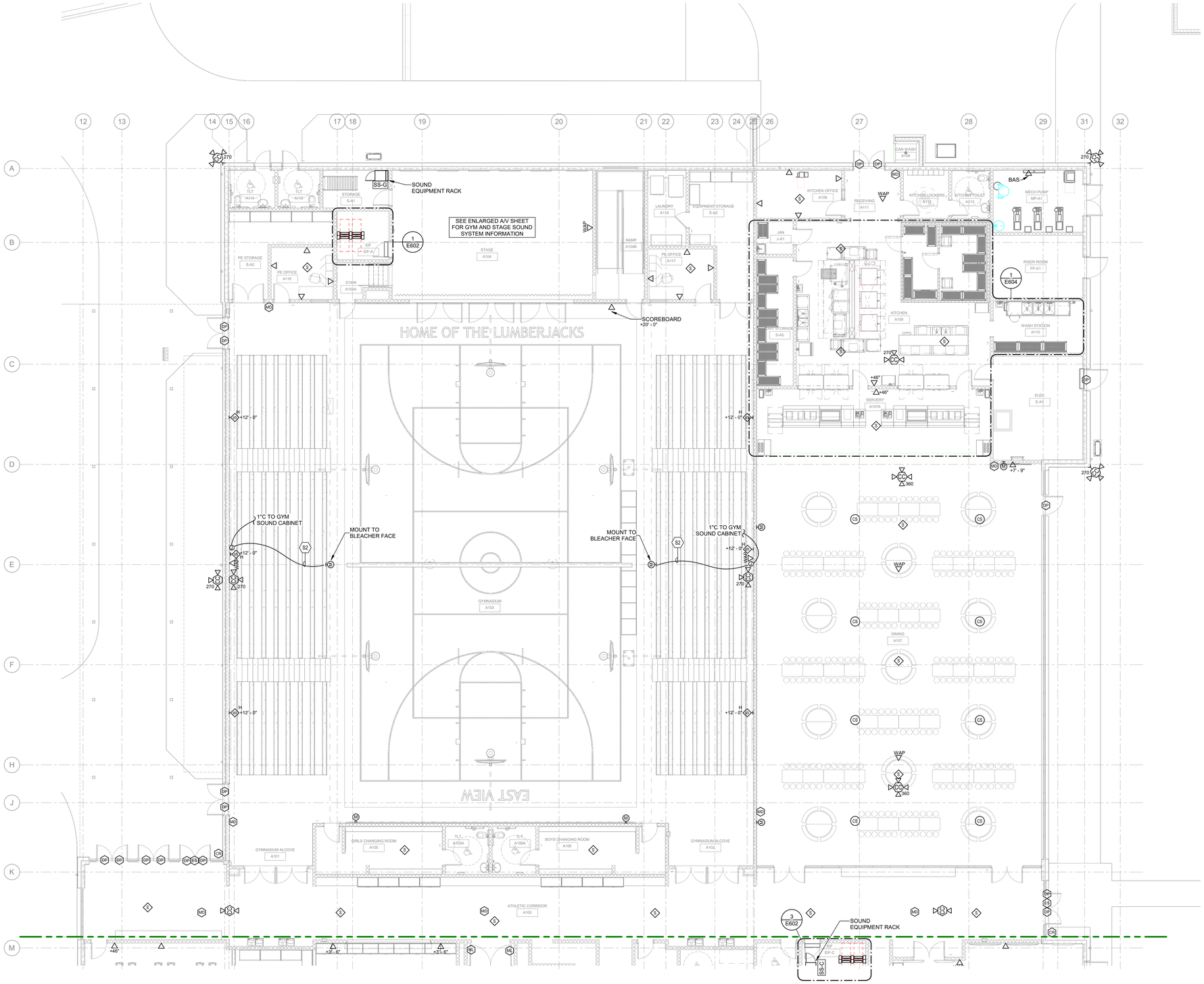
SHEET NAME:
FLOOR PLAN - LEVEL 2 - POWER - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E323

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAPER SIZE



1 LEVEL 1 FLOOR PLAN - SYSTEMS - AREA A

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

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

F. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES:

S2 COORDINATE WITH BLEACHER VENDOR TO PROVIDE CORD DRAPE THRU BLEACHER STRUCTURE TO TRAVEL WITH FOLDING MECHANISM.

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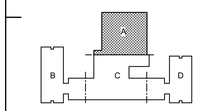


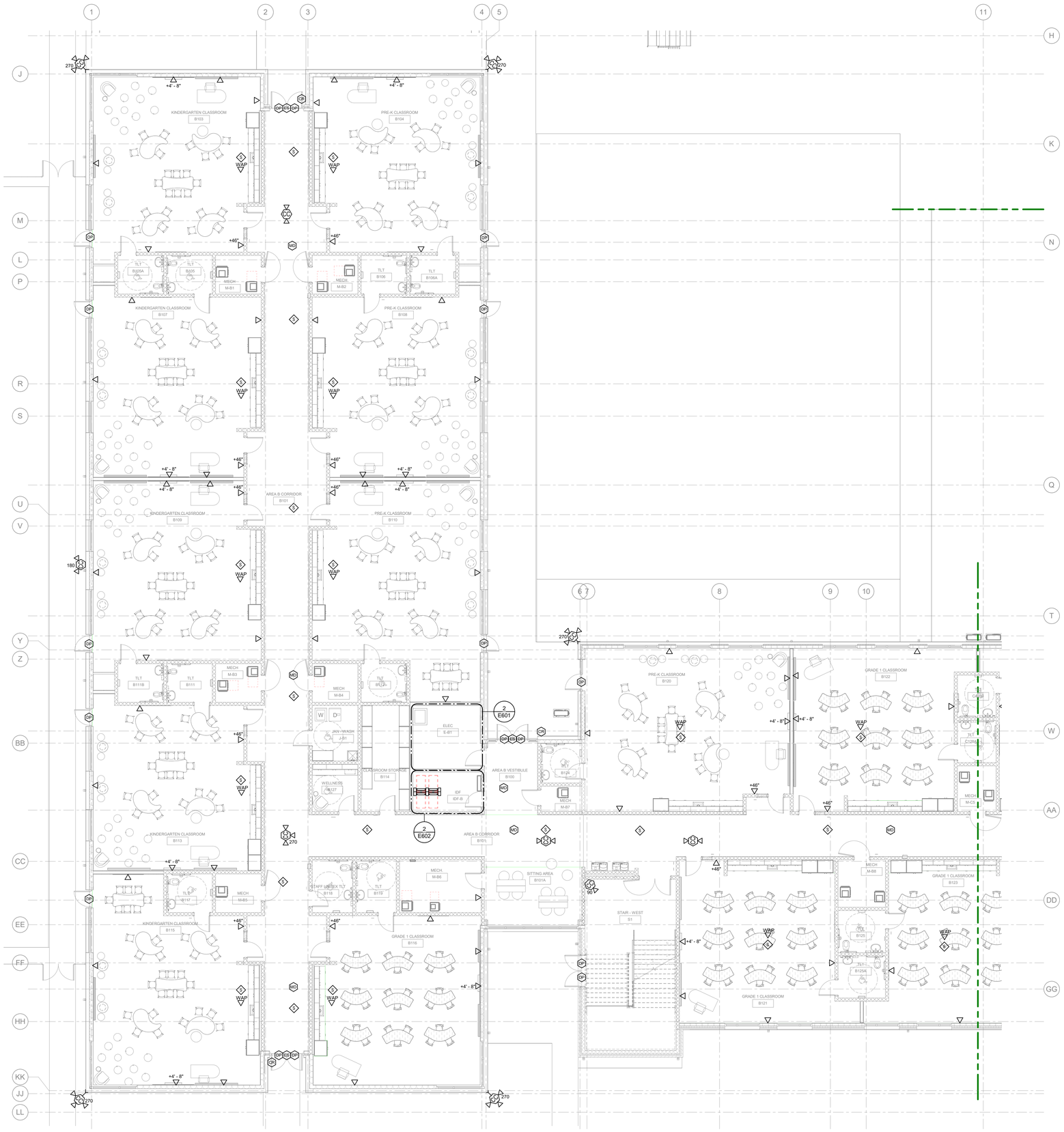
SHEET NAME:
FLOOR PLAN - LEVEL 1 - SYSTEMS - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E410

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SETS



1 LEVEL 1 FLOOR PLAN - SYSTEMS - AREA B

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

GENERAL NOTES (SYSTEMS):

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F. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES:

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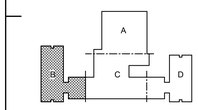

SHEET NAME:
FLOOR PLAN - LEVEL 1 - SYSTEMS - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E411

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PLOT SIZE

1 LEVEL 1 FLOOR PLAN - SYSTEMS - AREA C

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

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

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F. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES:

S9 PROVIDE DATA DROP AT GROUP RESTROOM CEILING FOR FUTURE VAPE DETECTION. COORDINATE FINAL LOCATION WITH OWNERS.

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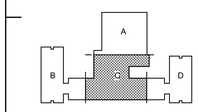


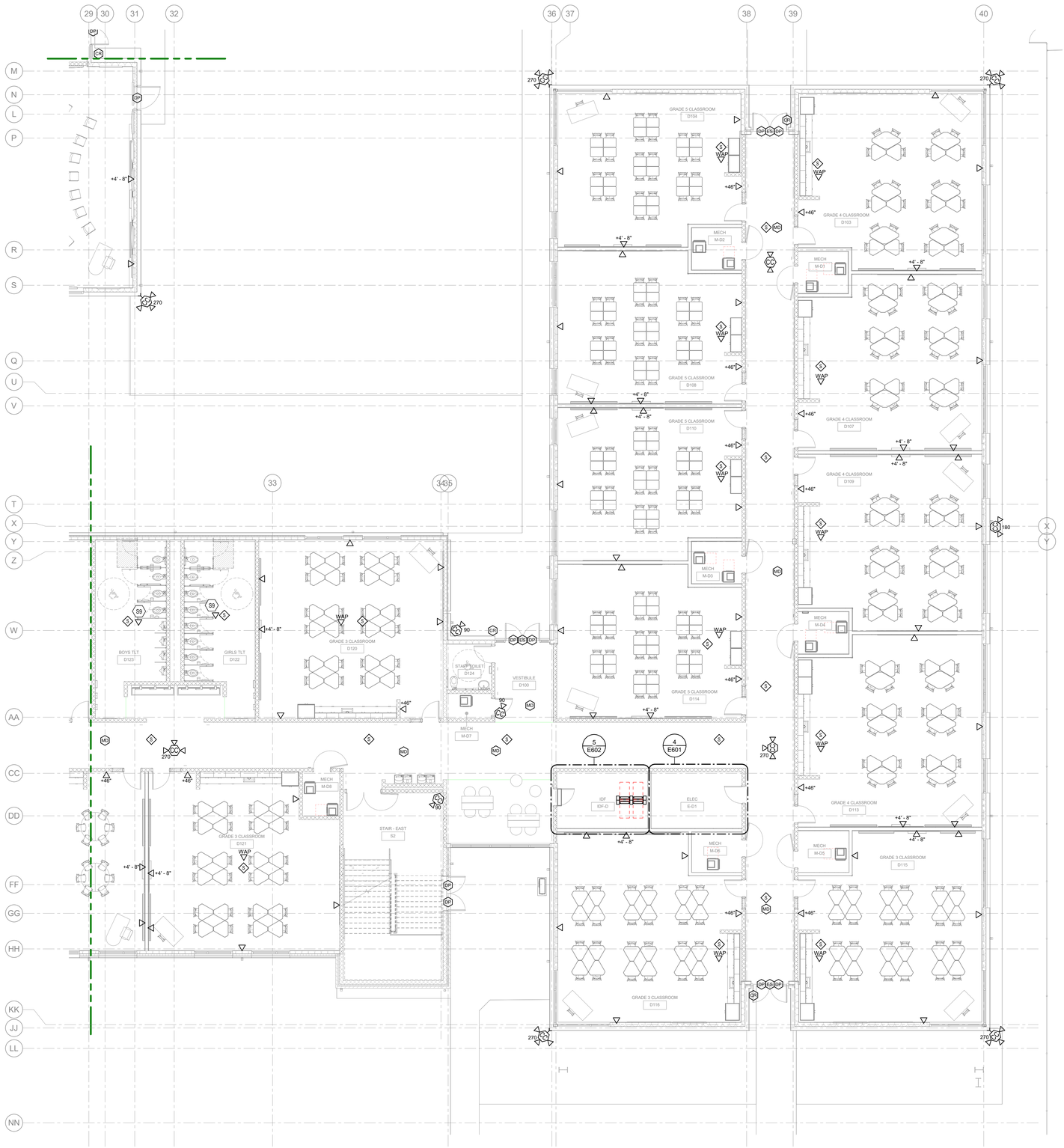
SHEET NAME:
FLOOR PLAN - LEVEL 1 - SYSTEMS - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E412

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE



1 LEVEL 1 FLOOR PLAN - SYSTEMS - AREA D

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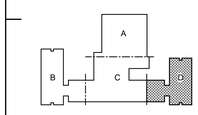

SHEET NAME:
FLOOR PLAN - LEVEL 1 - SYSTEMS - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E413

ISSUE FOR PERMIT / BIDDING

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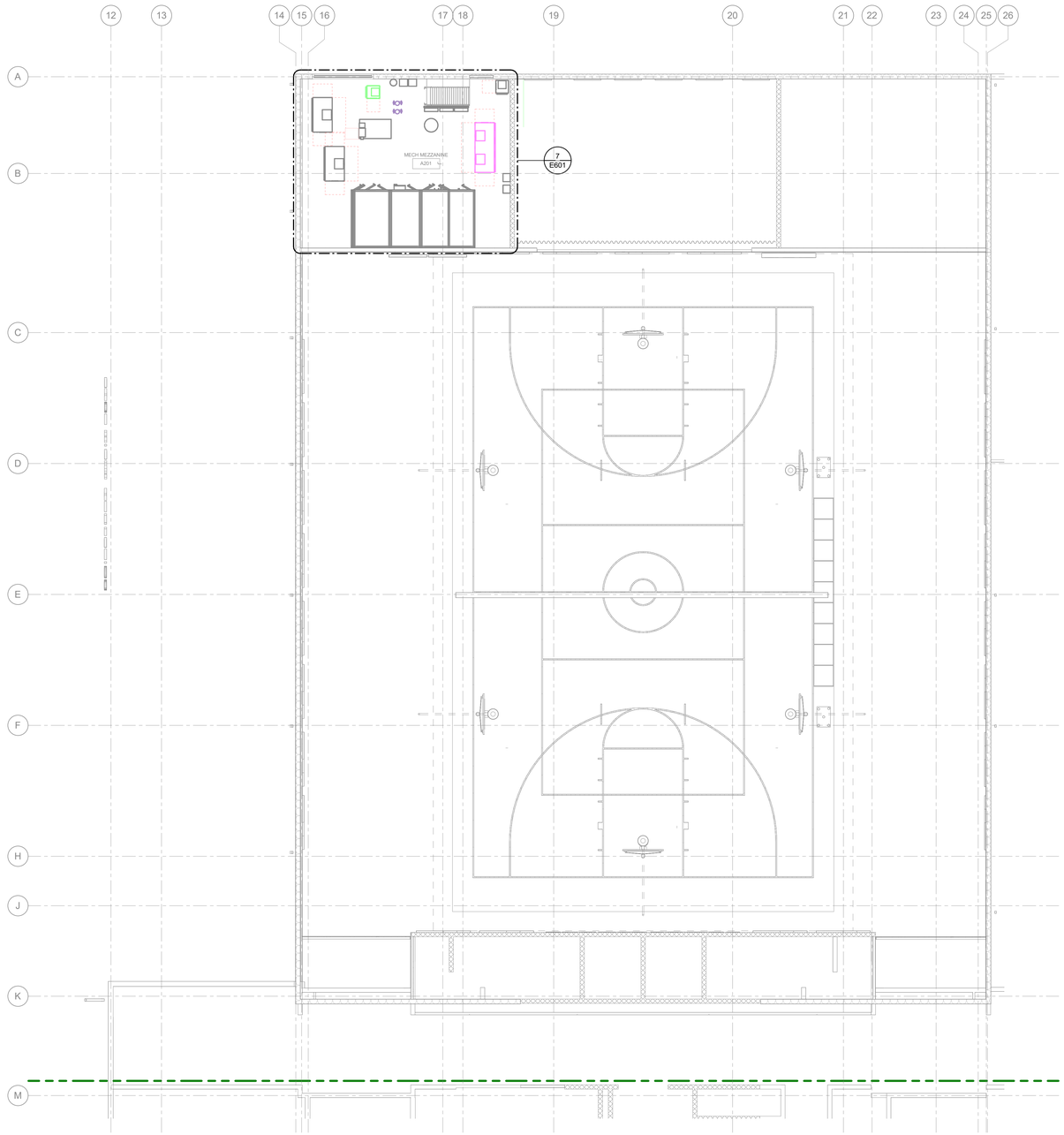

1 LEVEL 2 FLOOR PLAN - SYSTEMS - AREA A

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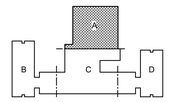

SHEET NAME:
FLOOR PLAN - LEVEL 2 - SYSTEMS - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E420

ISSUE FOR PERMIT / BIDDING

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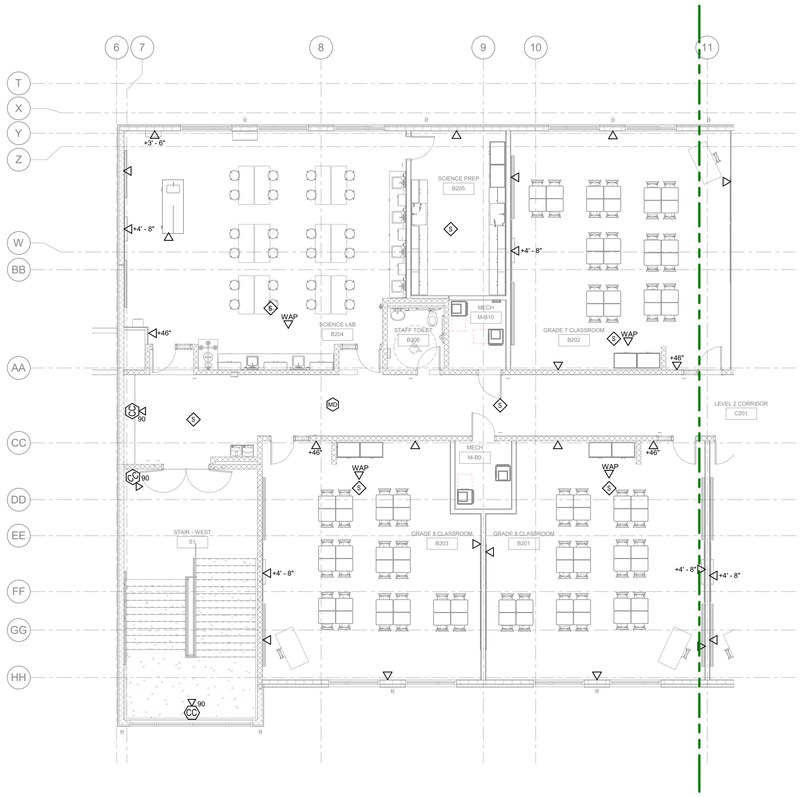

1 LEVEL 2 FLOOR PLAN - SYSTEMS - AREA B

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

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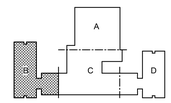

SHEET NAME:
FLOOR PLAN - LEVEL 2 - SYSTEMS - AREA B

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SHEET:
E421

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GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

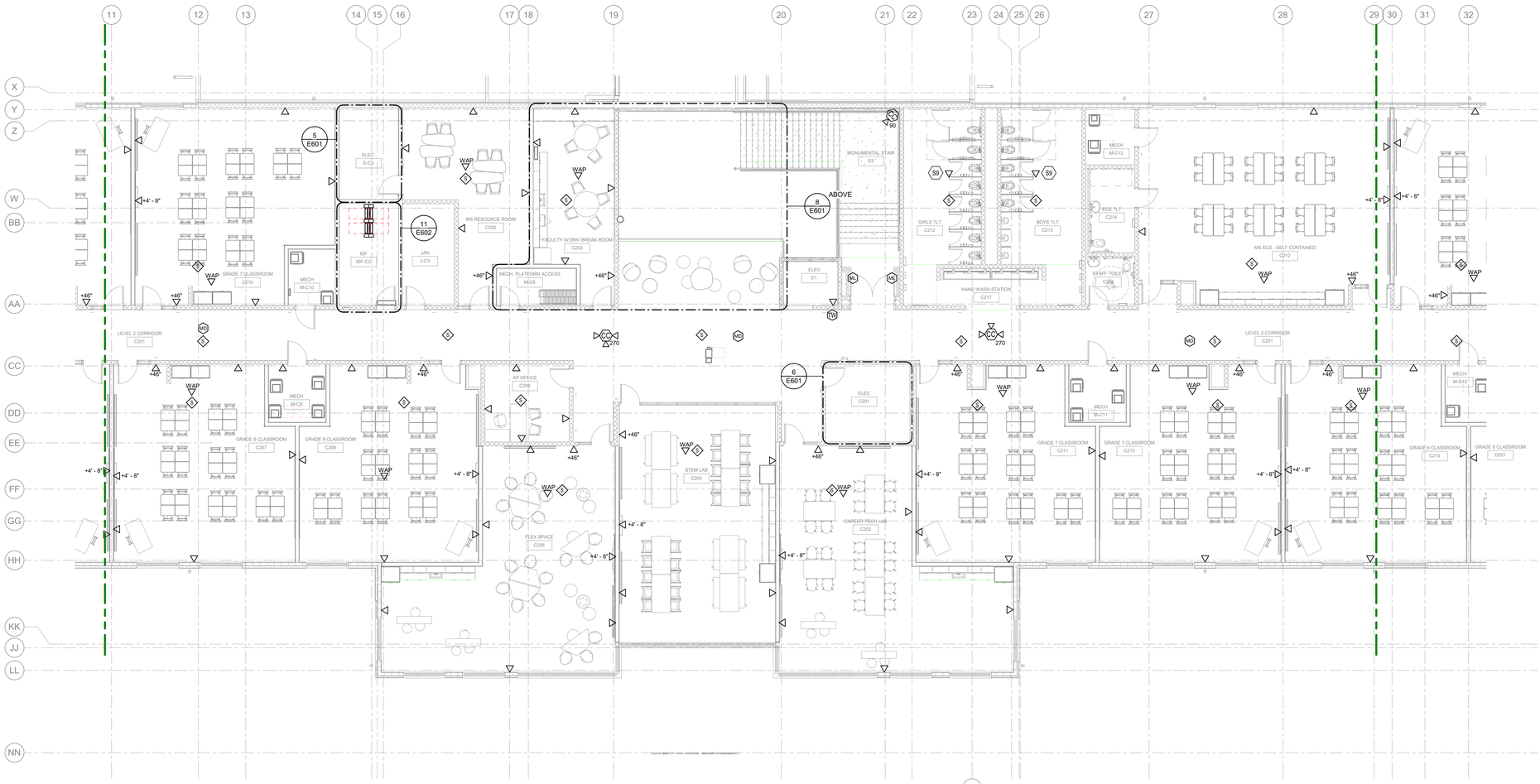
D. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.

E. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.

F. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES:

S9 PROVIDE DATA DROP AT GROUP RESTROOM CEILING FOR FUTURE VAPE DETECTION. COORDINATE FINAL LOCATION WITH OWNERS.



1 LEVEL 2 FLOOR PLAN - SYSTEMS - AREA C

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

23

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

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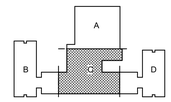
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



SHEET NAME:
FLOOR PLAN - LEVEL 2 - SYSTEMS - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E422

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PLOT SIZE

GENERAL NOTES (SYSTEMS):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

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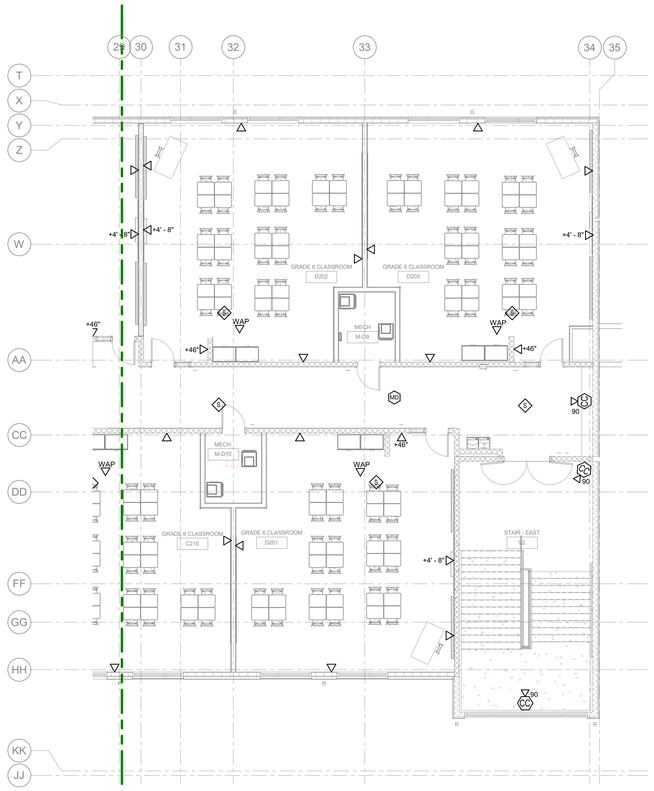
F. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.

KEYNOTES:



1 LEVEL 2 FLOOR PLAN - SYSTEMS - AREA D

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

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COLUMBUS COUNTY SCHOOLS PK-8

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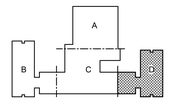
KEY PLAN:



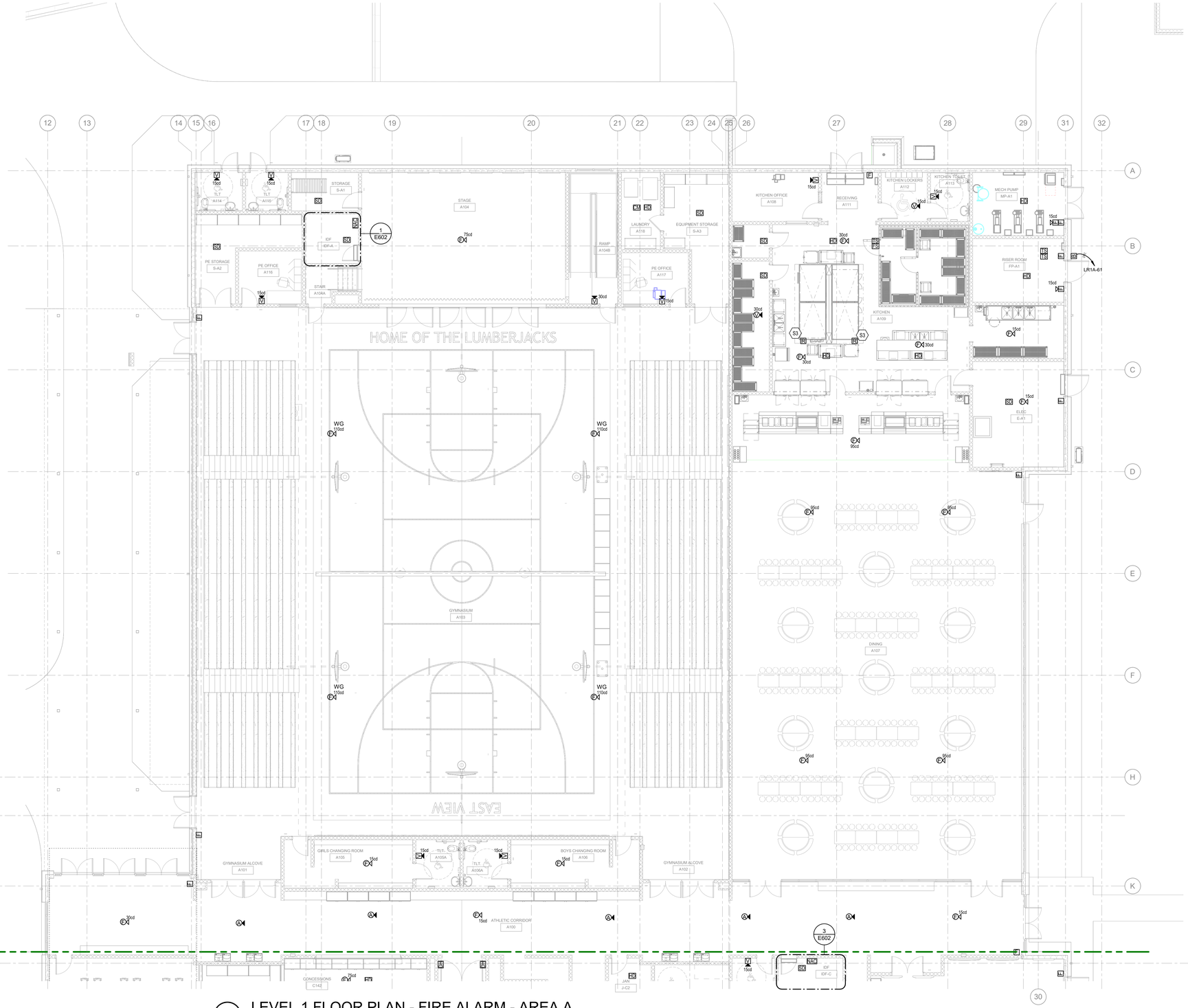
SHEET NAME:
FLOOR PLAN - LEVEL 2 - SYSTEMS - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E423

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE



1 LEVEL 1 FLOOR PLAN - FIRE ALARM - AREA A

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

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

B. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.

C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

H. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO CONSTRUCTION.

I. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

J. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.

K. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

KEYNOTES:

S3 PROVIDE INTERFACE WITH HOOD FIRE SUPPRESSION SYSTEM. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT VENDOR.

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COLUMBUS COUNTY SCHOOLS PK-8

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LS3P PROJECT: 7201-240219

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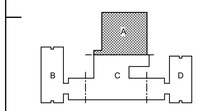
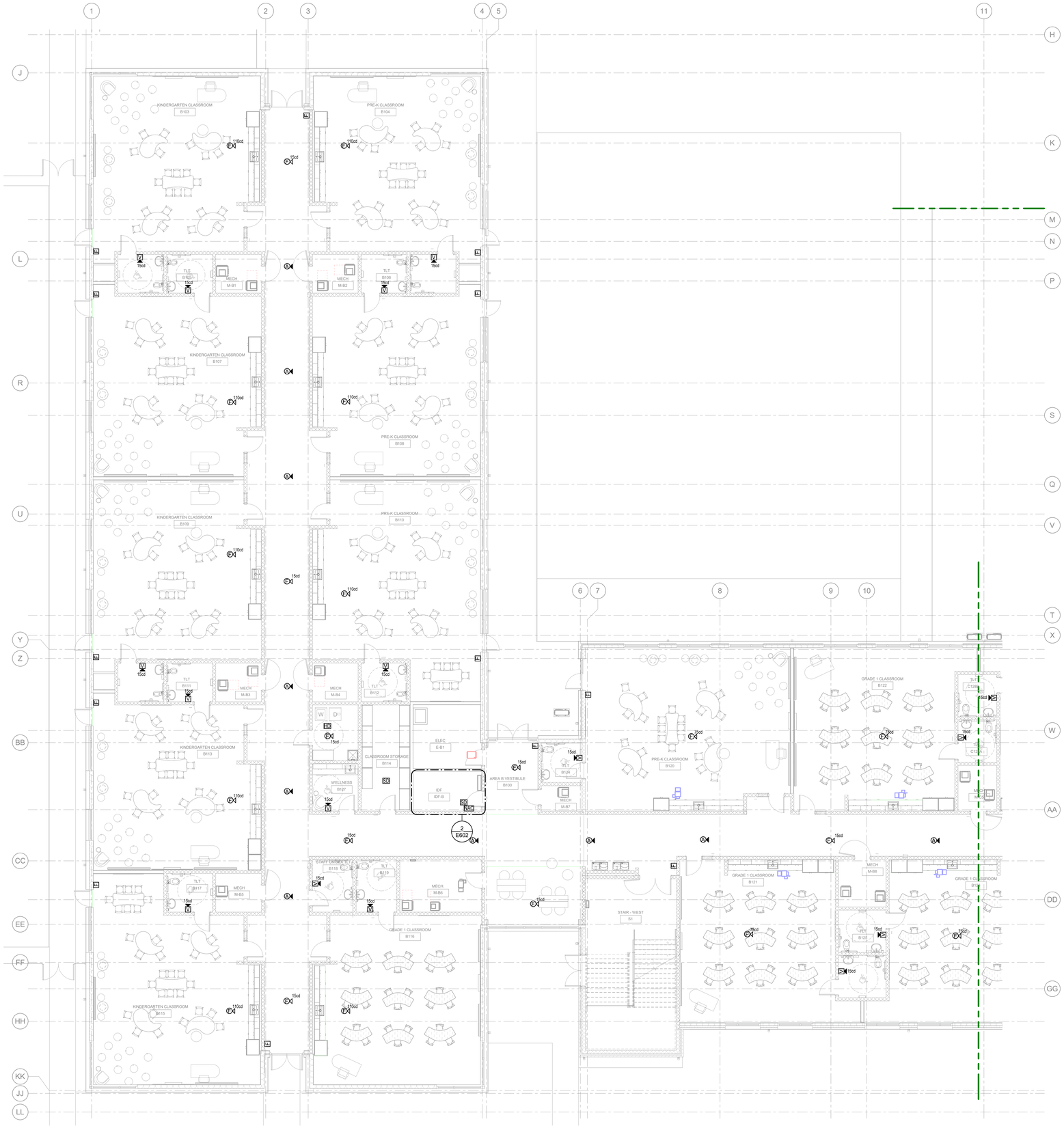


SHEET NAME:
FLOOR PLAN - LEVEL 1 - FIRE ALARM - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E510

ISSUE FOR PERMIT / BIDDING



1 LEVEL 1 FLOOR PLAN - FIRE ALARM - AREA B

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

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

B. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.

C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

H. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO CONSTRUCTION.

I. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

J. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.

K. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

KEYNOTES:

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

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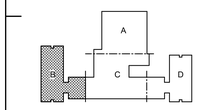
KEY PLAN:



SHEET NAME:
FLOOR PLAN - LEVEL 1 - FIRE ALARM - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E511

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE

1 LEVEL 1 FLOOR PLAN - FIRE ALARM - AREA C

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

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

B. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.

C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

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K. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

KEYNOTES:

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PLOT SIZE

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COLUMBUS COUNTY SCHOOLS PK-8

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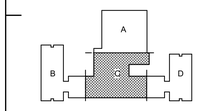


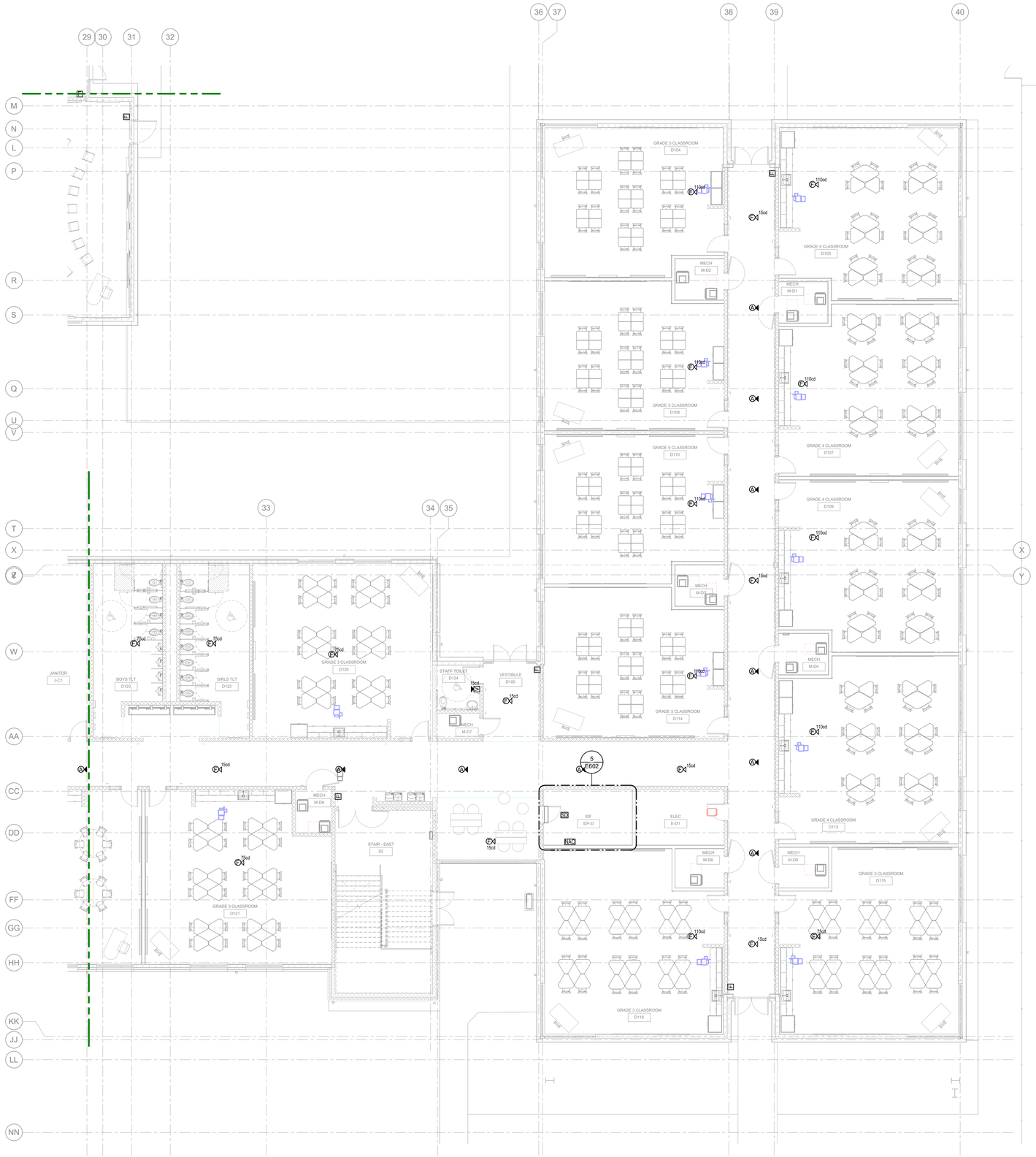
SHEET NAME:
FLOOR PLAN - LEVEL 1 - FIRE ALARM - AREA C

ORIG SUBMISSION: 2025.09.24

SHEET:
E512

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAPER SIZE



1 LEVEL 1 FLOOR PLAN - FIRE ALARM - AREA D

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

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

B. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.

C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

H. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO CONSTRUCTION.

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K. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

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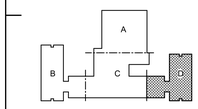
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



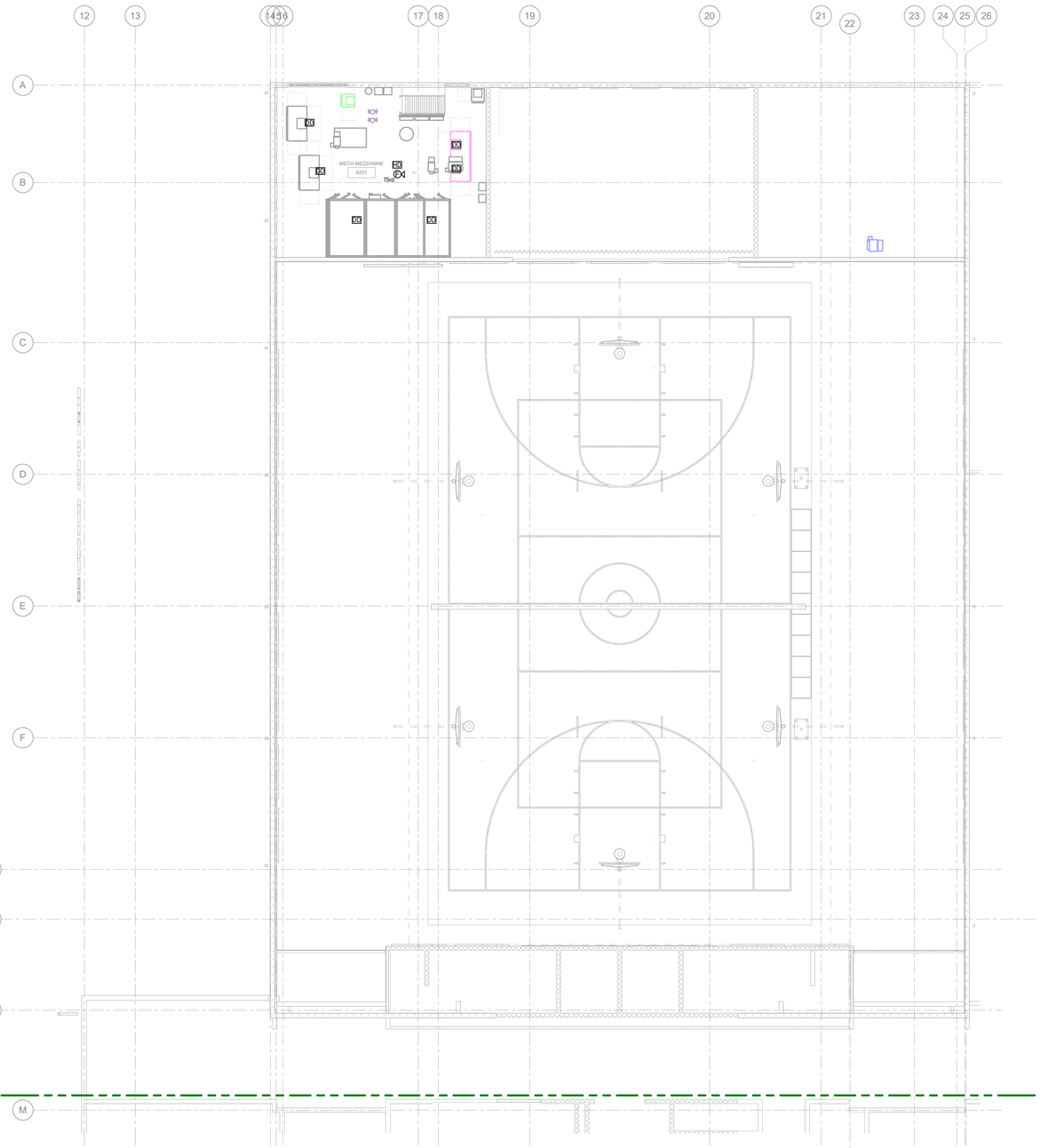
SHEET NAME:
FLOOR PLAN - LEVEL 1 - FIRE ALARM - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E513

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PAGE SIZE



1 LEVEL 2 FLOOR PLAN - FIRE ALARM - AREA A
SCALE: 1/8" = 1'-0"

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

B. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.

C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

H. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO CONSTRUCTION.

I. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

J. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.

K. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

KEYNOTES:

COLUMBUS COUNTY SCHOOLS

COLUMBUS COUNTY SCHOOLS

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

CMTA
A LEGENCE Company
10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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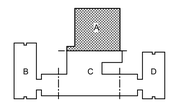
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



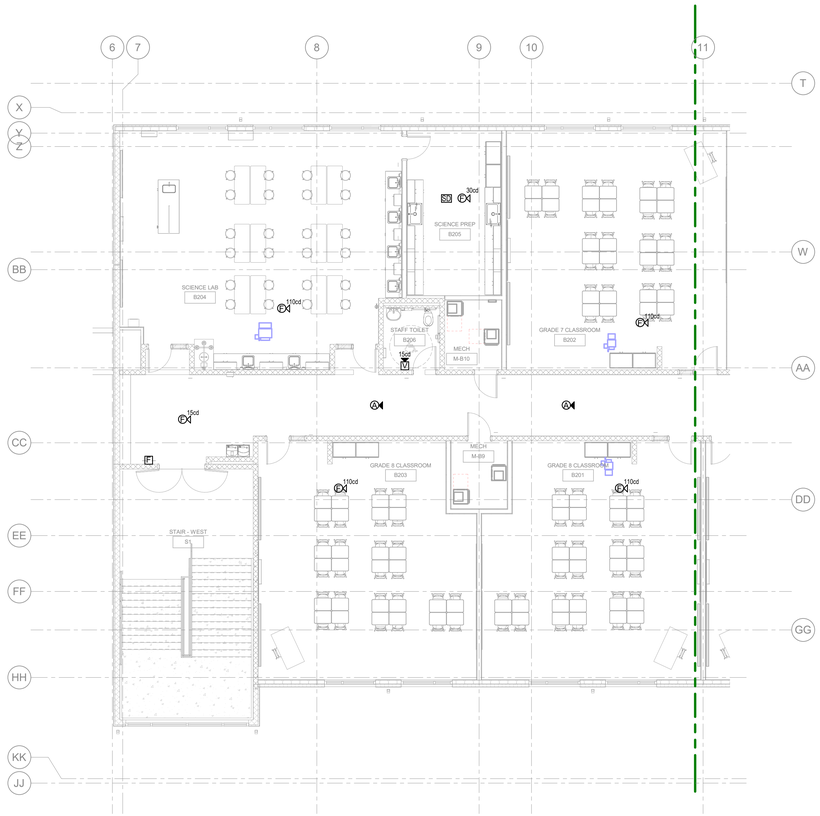
SHEET NAME:
FLOOR PLAN - LEVEL 2 - FIRE ALARM - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET:
E520

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE



1 LEVEL 2 FLOOR PLAN - FIRE ALARM - AREA B

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

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

B. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.

C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

H. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO CONSTRUCTION.

I. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

J. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.

K. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.

L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

KEYNOTES:

COLUMBUS COUNTY SCHOOLS

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LS3P

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WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
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10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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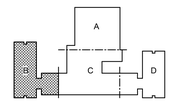
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



SHEET NAME:
FLOOR PLAN - LEVEL 2 - FIRE ALARM - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E521

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

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C. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMODATE BUILDING STANDARDS AS REQUIRED.

D. TAP SPEAKERS TO PROVIDE SUFFICIENT INTELLIGIBILITY FOR AREA SERVED.

E. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN, OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/CEILING INTERSECTIONS.

F. REFER TO FIRE ALARM OPERATION MATRIX AND BUILDING CONTROLS SPECIFICATIONS FOR AHU SHUTDOWN REQUIREMENTS.

G. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.

H. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO CONSTRUCTION.

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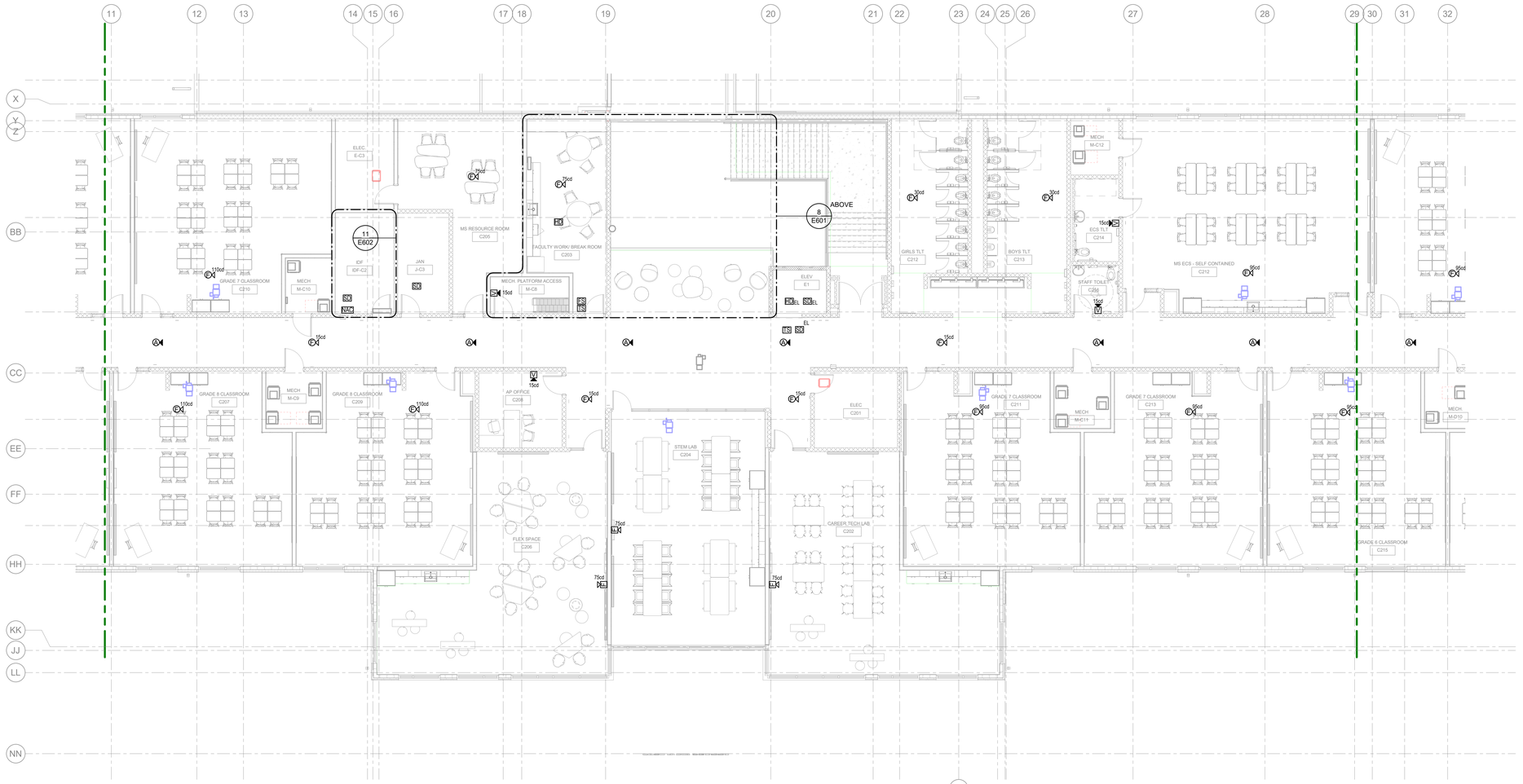
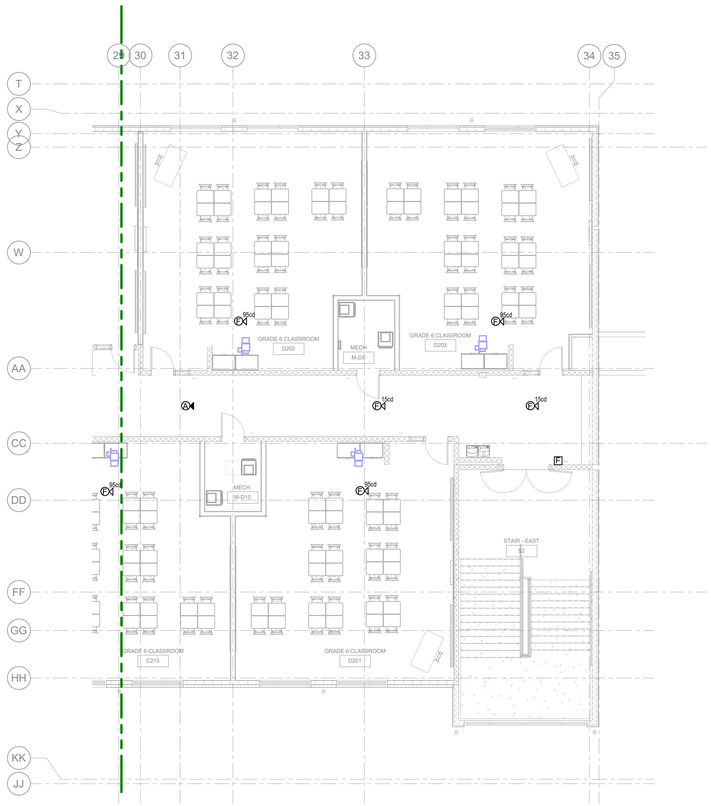


THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE



1 LEVEL 2 FLOOR PLAN - FIRE ALARM - AREA D

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

GENERAL NOTES (FIRE ALARM):

A. FIELD VERIFY THE EXACT NUMBER AND LOCATION OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.

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L. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.

M. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.

KEYNOTES:

COLUMBUS COUNTY SCHOOLS

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LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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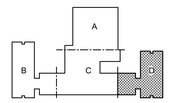
COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

KEY PLAN:



SHEET NAME:
FLOOR PLAN - LEVEL 2 - FIRE ALARM - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E523

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTS ON 24X36 PAPER SIZE

GENERAL NOTES (ENLARGED AND TYPICAL):

A. ALL ROOM LAYOUTS ARE TYPICAL AND MAY VARY OR MIRROR OTHER ASSOCIATED ROOMS. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE EACH ROOM PRIOR TO ROUGH-IN.

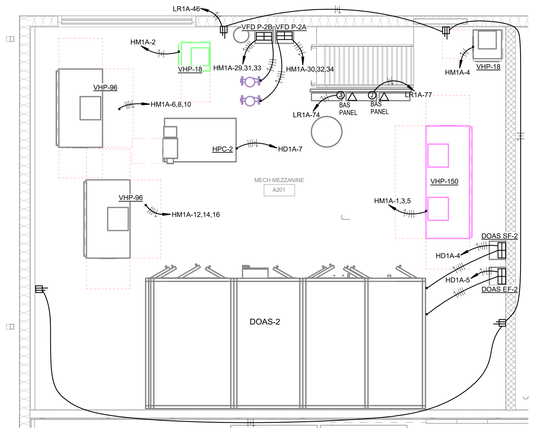
B. BEFORE INSTALLATION, CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT THE EXACT MOUNTING LOCATIONS OF ALL SWITCHES, WALL RECEPTACLES, PLUGS, FEC, AND OTHER WALL MOUNTED FIXTURES AND GRAPHICS/FINISHES. NO SWITCHES, DEVICES, EQUIPMENT, ETC. TO BE INSTALLED IN SPECIALTY FINISH/DISPLAY WALL AREAS.

C. CONFIRM ALL TELECOM ROOM LAYOUTS WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

KEYNOTES:

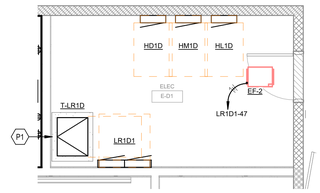
P1 PROVIDE 4-INCH HOUSEKEEPING PAD. REFER TO HOUSEKEEPING PAD DETAIL FOR ADDITIONAL INFORMATION. INCLUDE VIBRATION ISOLATION PADS FOR PAD MOUNT TRANSFORMERS.

P17 ELECTRICAL SERVICE MAIN GROUNDING BUSBAR (MGB). SEE GROUNDING ELECTRODE SYSTEM DETAIL FOR MORE INFORMATION.



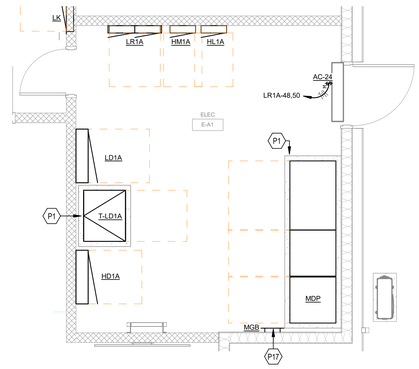
7 ENLARGED - LEVEL 2 PLAN - MECHANICAL PLATFORM

SCALE: 1/4" = 1'-0"



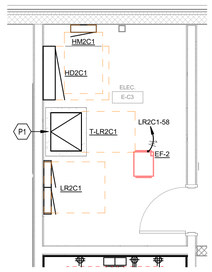
4 ENLARGED - LEVEL 1 PLAN - ELEC E-D1

SCALE: 1/4" = 1'-0"



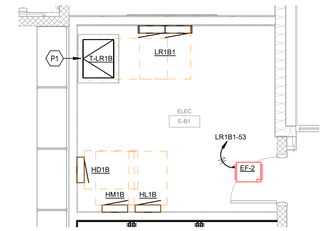
1 ENLARGED - LEVEL 1 PLAN - MAIN ELECTRICAL ROOM

SCALE: 1/4" = 1'-0"



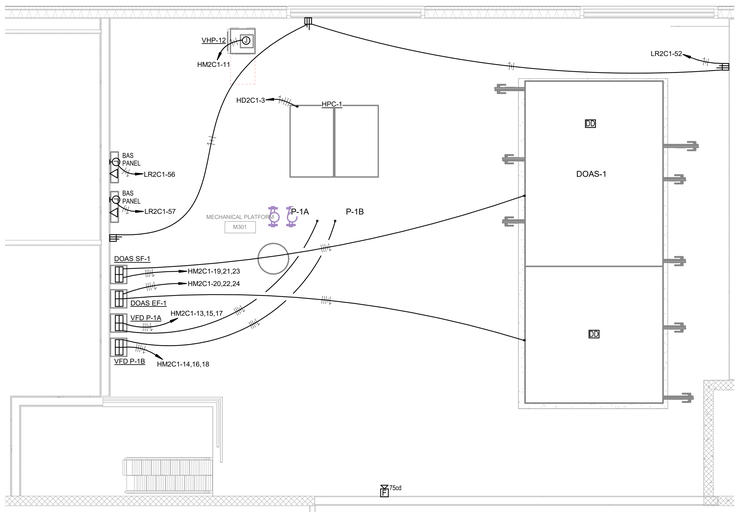
5 ENLARGED - LEVEL 2 PLAN - ELEC E-C3

SCALE: 1/4" = 1'-0"



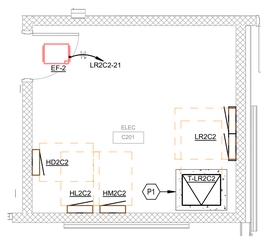
2 ENLARGED - LEVEL 1 PLAN - ELEC E-B1

SCALE: 1/4" = 1'-0"



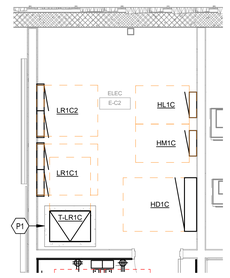
8 ENLARGED - MECHANICAL PLATFORM

SCALE: 1/4" = 1'-0"



6 ENLARGED - LEVEL 2 PLAN - ELEC E-C201

SCALE: 1/4" = 1'-0"



3 ENLARGED - LEVEL 1 PLAN - ELEC E-C2

SCALE: 1/4" = 1'-0"

COLUMBUS COUNTY SCHOOLS

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ENLARGED ELECTRICAL PLANS

ORIG SUBMISSION: 2025.09.24

SHEET:
E601

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE

GENERAL NOTES (ENLARGED AND TYPICAL):

A. ALL ROOM LAYOUTS ARE TYPICAL AND MAY VARY OR MIRROR OTHER ASSOCIATED ROOMS. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE EACH ROOM PRIOR TO ROUGH-IN.

B. BEFORE INSTALLATION, CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ARCHITECT THE EXACT MOUNTING LOCATIONS OF ALL SWITCHES, WALL RECEPTACLES, PLUGS, FEC, AND OTHER WALL MOUNTED FIXTURES AND GRAPHICS/FINISHES. NO SWITCHES, DEVICES, EQUIPMENT, ETC. TO BE INSTALLED IN SPECIALTY FINISH/DISPLAY WALL AREAS.

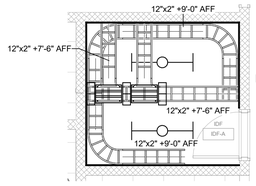
C. CONFIRM ALL TELECOM ROOM LAYOUTS WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

KEYNOTES:

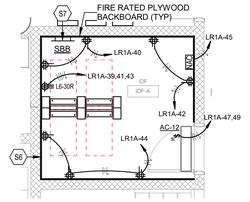
S5 PROVIDE 24" PRIMARY BONDING BUSBAR (PBB) AT 80" AFF NEAR THE SERVICE ENTRANCE CONDUITS. REFER TO BONDING BUSBAR DETAILS AND GROUNDING RISER DIAGRAMS FOR MORE INFORMATION.

S6 PROVIDE 12" PRIMARY BONDING BUSBAR (SBB) AT 80"AFF. REFER TO BONDING BUSBAR DETIALS AND GROUNDING RISER DIAGRAMS FOR MORE INFORMATION.

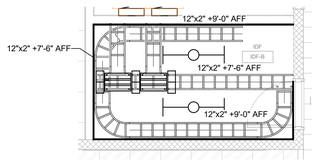
S7 PROVIDE 3/4" FIRE RETARDANT PLYWOOD TELECOM BACKBOARD MOUNTED TO ALL TELECOM ROOM WALLS WITH GRADE A FINISH EXPOSED AND (2) COATS OF WHITE FIRE RETARDANT PAINT ON ALL SIDES. PLYWOOD TO BE MIN OF 8'-0" TALL AND MOUNTED 8" AFF. FIRE RATED STAMP MUST REMAIN VISIBLE.



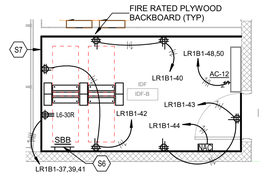
6 ENLARGED IDF-A RCP
SCALE: 1/4" = 1'-0"



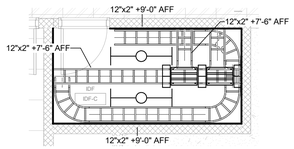
1 ENLARGED - LEVEL 1 PLAN - IDF-A
SCALE: 1/4" = 1'-0"



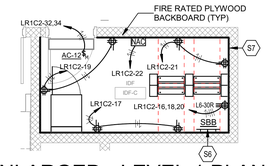
7 ENLARGED IDF-B RCP
SCALE: 1/4" = 1'-0"



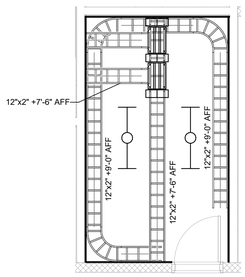
2 ENLARGED - LEVEL 1 PLAN - IDF-B
SCALE: 1/4" = 1'-0"



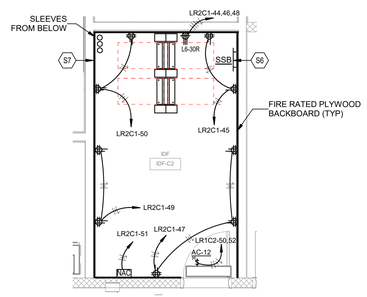
8 ENLARGED IDF-C RCP
SCALE: 1/4" = 1'-0"



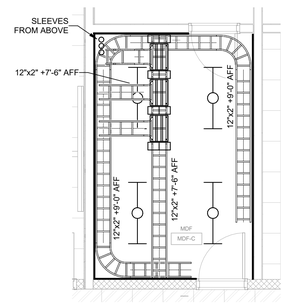
3 ENLARGED - LEVEL 1 PLAN - IDF-C
SCALE: 1/4" = 1'-0"



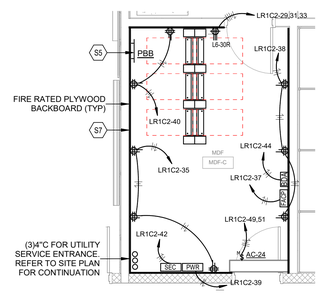
12 ENLARGED IDF-C2 RCP
SCALE: 1/4" = 1'-0"



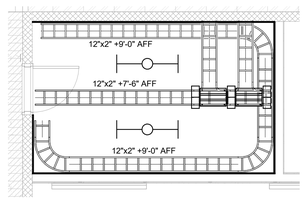
11 ENLARGED - LEVEL 2 PLAN - IDF-C2
SCALE: 1/4" = 1'-0"



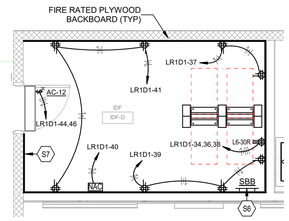
9 ENLARGED MDF-C RCP
SCALE: 1/4" = 1'-0"



4 ENLARGED - LEVEL 1 PLAN - MDF-C
SCALE: 1/4" = 1'-0"



10 ENLARGED IDF-D RCP
SCALE: 1/4" = 1'-0"



5 ENLARGED - LEVEL 1 PLAN - IDF-D
SCALE: 1/4" = 1'-0"

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ENLARGED ELECTRICAL PLANS - TELECOM

ORIG SUBMISSION: 2025.09.24

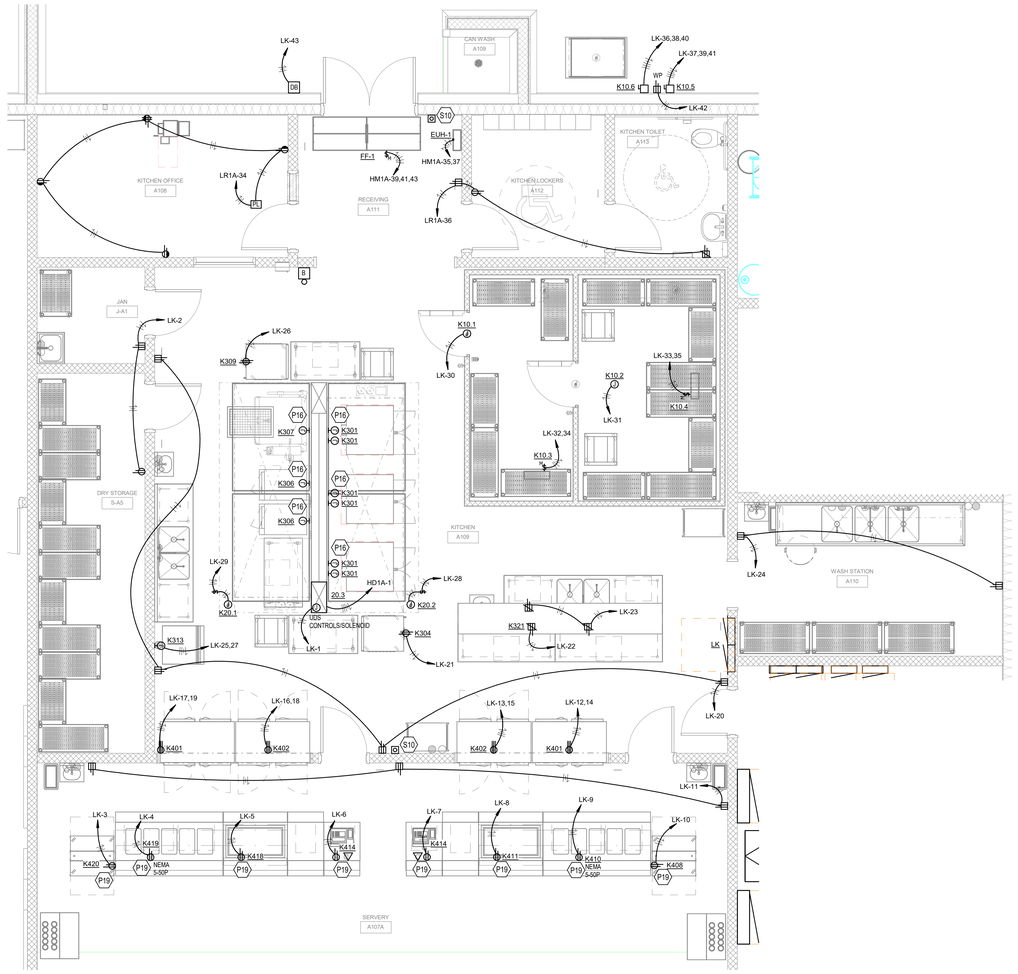
SHEET:
E602

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE

ELEC - FOOD SERVICE EQUIPMENT SCHEDULE

EQUIP ID	DESCRIPTION	CONNECTION TYPE	MOUNTING HEIGHT	VOLTAGE	POLES	EQUIPMENT RATING			REMARKS
						HP	AMP	POWER (kVA)	
K10.1	WALK IN FREEZER	30A/1P MOTOR RATED SWITCH	10'-0"	120	1		15	1.80 kVA	
K10.2	WALK IN COOLER	30A/1P MOTOR RATED SWITCH	8'-6"	120	1		15	1.80 kVA	
K10.3	COOLER EVAPORATOR COIL	30A/1P SAFETY SWITCH	10'-0"	208	2		1.1	0.20 kVA	
K10.4	FREEZER VAPORATOR UNIT	30A/1P SAFETY SWITCH	10'-0"	208	2		9.5	2.00 kVA	
K10.5	COOLER CONDENSING UNIT	30A/1P SAFETY SWITCH	2'-0"	208	3		15	5.40 kVA	
K10.6	FREEZER CONDENSING UNIT	30A/1P SAFETY SWITCH	2'-0"	208	3		19.8	7.10 kVA	
K20.1	EXHAUST HOOD	J BOX, DIRECT CONNECTION	10'-0"	120	1		20	2.40 kVA	
K20.2	EXHAUST HOOD	J BOX, DIRECT CONNECTION	10'-0"	120	1		20	2.40 kVA	
K20.3	UTILITY DISTRIBUTION SYSTEM	J BOX, DIRECT CONNECTION	120'-0"	480	3		180	149.20 kVA	
K301	ELECTRIC CONVECTION OVEN	J BOX, DIRECT CONNECTION	10'-0"	480	3		14	11.00 kVA	
K304	CVAP HOLDING UNIT	NEMA 5-20P	2'-0"	120	1		19.1	2.30 kVA	
K306	CONVECTION STEAMER	J BOX, DIRECT CONNECTION	6"	480	3		39.8	32.60 kVA	
K307	TILTING SKILLET	J BOX, DIRECT CONNECTION	6"	480	3		21.7	18.00 kVA	
K309	CVAP HOLDING UNIT	NEMA 5-20P	2'-0"	120	1		19.1	2.30 kVA	
K313	ICE MAKER	30A/1P MOTOR RATED SWITCH	4'-2"	208	2		12.5	2.60 kVA	
K321	BOWL FOOD PROCESSOR	NEMA 5-15P	4'-2"	120	1		5.6	0.70 kVA	
K401	PASS-THRU HOLDING CABINENT	NEMA L14-30P	7'-11"	208	2		15.5	3.20 kVA	
K402	PASS-THRU REFRIGERATOR	NEMA 5-15P	7'-11"	208	2	5/8	8.6	1.00 kVA	
K408	MILK COOLER	NEMA 5-15P	2'-0"	120	1	1/2	3.7	0.40 kVA	
K410	HOT FOOD TABLE	NEMA 5-50P	2'-0"	120	1		30.9	3.71 kVA	
K411	QUICK SWITCH COUNTER	NEMA 5-15P	2'-0"	120	1		11	1.30 kVA	
K414	POS	NEMA 5-15P	6"	120	1		5	0.60 kVA	
K418	QUICK SWITCH COUNTER	NEMA 5-15P	2'-0"	120	1		11	1.30 kVA	
K419	HOT FOOD TABLE	NEMA 5-50P	2'-0"	120	1		27.5	3.71 kVA	
K420	MILK COOLER	NEMA 5-15P	2'-0"	120	1	1/2	3.7	0.40 kVA	
KEF-1	KITCHEN HOOD EXHAUST	FURNISHED WITH UNIT	3"	480	3	3	6	3.99 kVA	



1 ENLARGED KITCHEN PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES (KITCHEN):

A. PROVIDE BREAKER LOCK-OUT PROVISIONS IN PANELS FOR BREAKERS THAT SERVE HARD-WIRED KITCHEN EQUIPMENT CONNECTIONS.

B. KITCHEN PLANS ARE BASED UPON COORDINATION WITH THE KITCHEN DESIGN CONSULTANT'S DRAWINGS. ALL ROUGH-INS AND FINAL CONNECTIONS SHALL BE VERIFIED WITH KITCHEN EQUIPMENT SHOP DRAWINGS AND ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO CONSTRUCTION.

C. FOR ALL CIRCUITS SERVING RECEPTACLES AND EQUIPMENT IN KITCHEN AND SERVING AREAS, PROVIDE "GFCI" TYPE CIRCUIT BREAKERS FOR THOSE CIRCUITS. FOR ALL RECEPTACLES THAT ARE CONNECTED TO "GFCI" CIRCUIT BREAKERS, PROVIDE PERMANENT LABELS ON THE RECEPTACLE COVERPLATE INDICATING "GFCI" PROTECTED CIRCUIT".

D. PROVIDE #302 STAINLESS STEEL COVERPLATES ON ALL OUTLETS LOCATED ON A WALL WITH STAINLESS STEEL COVERINGS. VERIFY LOCATIONS OF THESE STAINLESS STEEL WALLS WITH THE KITCHEN VENDOR DRAWINGS / SHOP DRAWINGS.

E. REFER TO KITCHEN ELECTRICAL CONNECTIONS SCHEDULES FOR MOUNTING HEIGHTS OF RECEPTACLES AND JUNCTION BOXES.

F. VERIFY EXACT OUTLET NEMA CONFIGURATIONS WITH EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION.

KEYNOTES:

P16	WIRE EQUIPMENT TO HOOD UTILITY DISTRIBUTION SYSTEM. REFER TO KITCHEN PLANS FOR MORE INFORMATION.
P19	MOUNT INDICATED DEVICES TO KNEE WALL.
S10	PROVIDE HAND PULL STATION FOR HOOD ANSUL SYSTEM. COORDINATE WITH KITCHEN VENDOR.

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and San Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ENLARGED KITCHEN PLAN

ORIG SUBMISSION: 2025.09.24

SHEET:
E604

ISSUE FOR PERMIT / BIDDING

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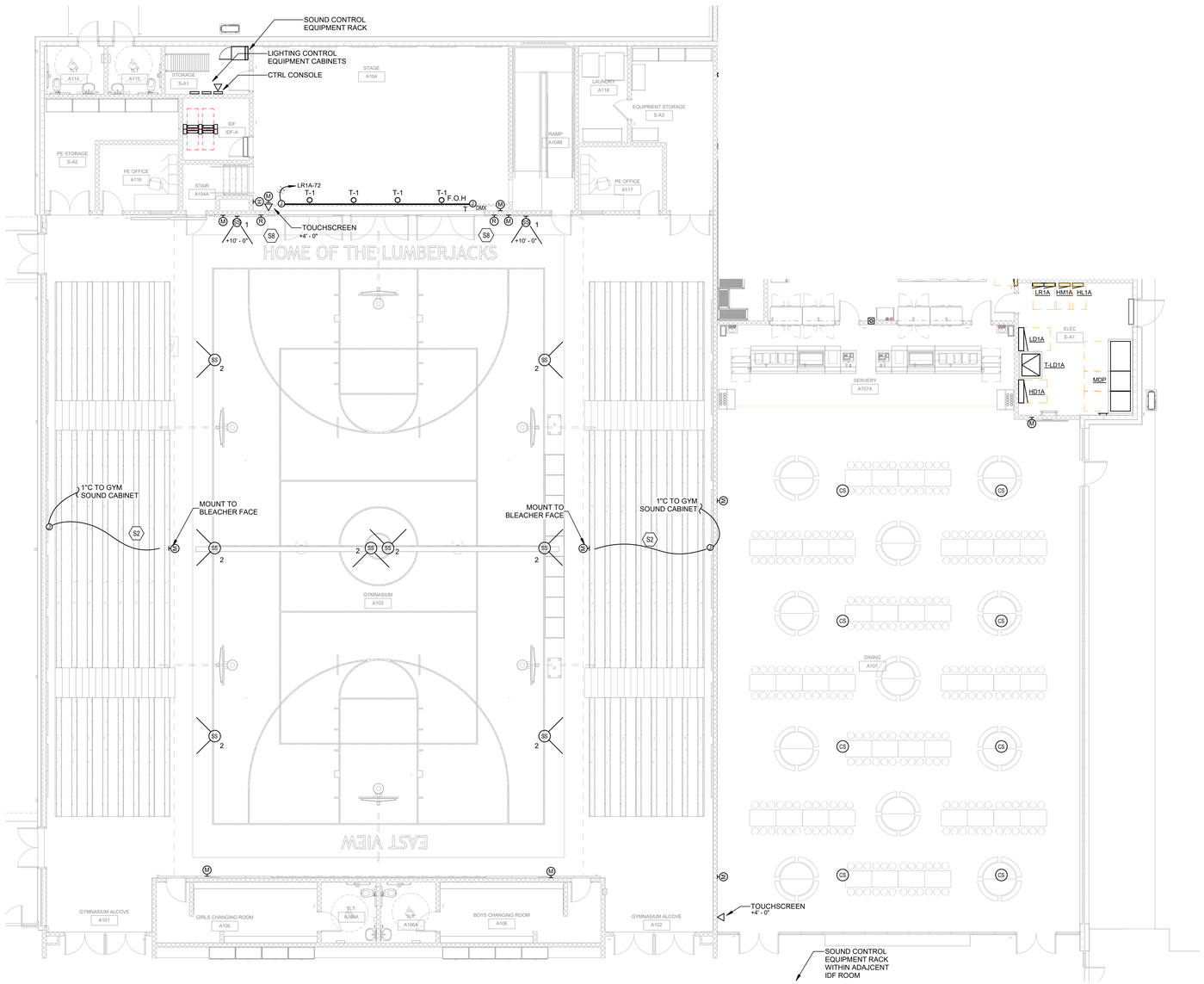
STAGE LIGHTING SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
T	PERFORMANCE LIGHTING TRACK WITH POWER AND DMX CONTROLS	ETC: DATATRACK WITH BACKBONE	OR APPROVED EQUAL	SURFACE	N/A		0	120	
T-1	LED COLOR CHANGING PERFORMANCE LIGHTING, DMX CONTROL	ETC: COLORSOURCE PAR LED	OR APPROVED EQUAL	TRACK	RGBW, LED	2700	90	120	



1 ENLARGED - GYM AUDIO/VISUAL

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

KEYNOTES:

S2 COORDINATE WITH BLEACHER VENDOR TO PROVIDE CORD DRAPE THRU BLEACHER STRUCTURE TO TRAVEL WITH FOLDING MECHANISM.

S8 PROVIDE BACKBOXES WITH 1"C TO A/V RACK FOR WIRELESS MIC RECIEVER AND TRANSMITTER ANTENNAS LOCATED IN CEILING AND TRUSS SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.

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Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
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B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ENLARGED - AV - GYM & CAFETERIA

ORIG SUBMISSION: 2025.09.24

SHEET:
E605

ISSUE FOR PERMIT / BIDDING

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ELECTRICAL FEEDER SCHEDULE

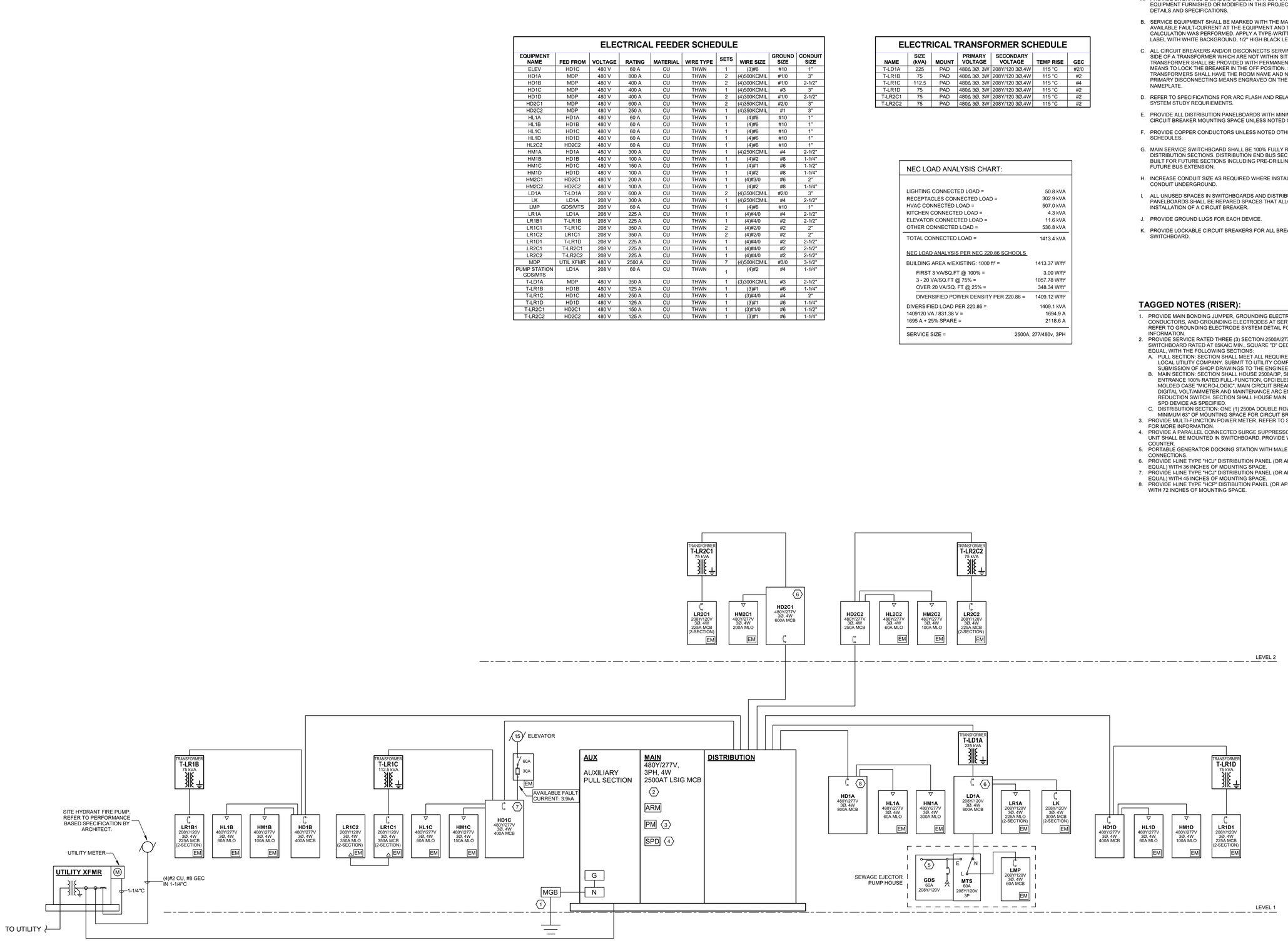
EQUIPMENT NAME	FED FROM	VOLTAGE	RATING	MATERIAL	WIRE TYPE	SETS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
ELEV	HD1C	480 V	60 A	CU	THWN	1	(3)#6	#10	1"
HD1A	MDP	480 V	800 A	CU	THWN	2	(4)500KCMIL	#1/0	3"
HD1B	MDP	480 V	400 A	CU	THWN	2	(4)300KCMIL	#1/0	2-1/2"
HD1C	MDP	480 V	400 A	CU	THWN	1	(4)500KCMIL	#3	3"
HD1D	MDP	480 V	400 A	CU	THWN	2	(4)300KCMIL	#1/0	2-1/2"
HD2C1	MDP	480 V	600 A	CU	THWN	2	(4)350KCMIL	#2/0	3"
HD2C2	MDP	480 V	250 A	CU	THWN	1	(4)350KCMIL	#1	3"
HL1A	HD1A	480 V	60 A	CU	THWN	1	(4)#6	#10	1"
HL1B	HD1B	480 V	60 A	CU	THWN	1	(4)#6	#10	1"
HL1C	HD1C	480 V	60 A	CU	THWN	1	(4)#6	#10	1"
HL1D	HD1D	480 V	60 A	CU	THWN	1	(4)#6	#10	1"
HL2C2	HD2C2	480 V	60 A	CU	THWN	1	(4)#6	#10	1"
HM1A	HD1A	480 V	300 A	CU	THWN	1	(4)250KCMIL	#4	2-1/2"
HM1B	HD1B	480 V	100 A	CU	THWN	1	(4)#2	#8	1-1/4"
HM1C	HD1C	480 V	150 A	CU	THWN	1	(4)#1	#6	1-1/2"
HM1D	HD1D	480 V	100 A	CU	THWN	1	(4)#2	#8	1-1/4"
HM2C1	HD2C1	480 V	200 A	CU	THWN	1	(4)#3/0	#6	2"
HM2C2	HD2C2	480 V	100 A	CU	THWN	1	(4)#2	#8	1-1/4"
LD1A	T-LD1A	208 V	600 A	CU	THWN	2	(4)350KCMIL	#2/0	3"
LK	LD1A	208 V	300 A	CU	THWN	1	(4)250KCMIL	#4	2-1/2"
LMP	GDS/MTS	208 V	60 A	CU	THWN	1	(4)#6	#10	1"
LR1A	LD1A	208 V	225 A	CU	THWN	1	(4)#4/0	#4	2-1/2"
LR1B1	T-LR1B	208 V	225 A	CU	THWN	1	(4)#4/0	#2	2-1/2"
LR1C1	T-LR1C	208 V	350 A	CU	THWN	2	(4)#2/0	#2	2"
LR1C2	LR1C1	208 V	350 A	CU	THWN	2	(4)#2/0	#2	2"
LR1D1	T-LR1D	208 V	225 A	CU	THWN	1	(4)#4/0	#2	2-1/2"
LR2C1	T-LR2C1	208 V	225 A	CU	THWN	1	(4)#4/0	#2	2-1/2"
LR2C2	T-LR2C2	208 V	225 A	CU	THWN	1	(4)#4/0	#2	2-1/2"
MDP	UTIL XFMR	480 V	2500 A	CU	THWN	7	(4)500KCMIL	#3/0	3-1/2"
PUMP STATION GDS/MTS	LD1A	208 V	60 A	CU	THWN	1	(4)#2	#4	1-1/4"
T-LD1A	MDP	480 V	350 A	CU	THWN	1	(3)300KCMIL	#3	2-1/2"
T-LR1B	HD1B	480 V	125 A	CU	THWN	1	(3)#1	#6	1-1/4"
T-LR1C	HD1C	480 V	250 A	CU	THWN	1	(3)#4/0	#4	2"
T-LR1D	HD1D	480 V	125 A	CU	THWN	1	(3)#1	#6	1-1/4"
T-LR2C1	HD2C1	480 V	150 A	CU	THWN	1	(3)#1/0	#6	1-1/2"
T-LR2C2	HD2C2	480 V	125 A	CU	THWN	1	(3)#1	#6	1-1/4"

ELECTRICAL TRANSFORMER SCHEDULE

NAME	SIZE (kVA)	MOUNT	PRIMARY VOLTAGE	SECONDARY VOLTAGE	TEMP RISE	GEC
T-LD1A	225	PAD	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2/0
T-LR1B	75	PAD	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LR1C	112.5	PAD	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#4
T-LR1D	75	PAD	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LR2C1	75	PAD	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LR2C2	75	PAD	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2

NEC LOAD ANALYSIS CHART:

LIGHTING CONNECTED LOAD =	50.8 kVA
RECEPTACLES CONNECTED LOAD =	302.9 kVA
HVAC CONNECTED LOAD =	507.0 kVA
KITCHEN CONNECTED LOAD =	4.3 kVA
ELEVATOR CONNECTED LOAD =	11.6 kVA
OTHER CONNECTED LOAD =	536.8 kVA
TOTAL CONNECTED LOAD =	1413.4 kVA
NEC LOAD ANALYSIS PER NEC 220.86 SCHOOLS	
BUILDING AREA w/EXISTING: 1000 ft² =	1413.37 W/ft²
FIRST 3 VA/SQ.FT @ 100% =	3.00 W/ft²
3 - 20 VA/SQ.FT @ 75% =	1057.78 W/ft²
OVER 20 VA/SQ. FT @ 25% =	348.34 W/ft²
DIVERSIFIED POWER DENSITY PER 220.86 =	1409.12 W/ft²
DIVERSIFIED LOAD PER 220.86 =	1409.1 kVA
1409120 VA / 831.38 V =	1694.9 A
1695 A + 25% SPARE =	2118.6 A
SERVICE SIZE =	2500A, 277/480v, 3PH



1 ELECTRICAL RISER DISTRIBUTION DIAGRAM

NO SCALE

GENERAL NOTES (RISER):

A. PROVIDE ENGRAVED LAMACOID LABELS FOR ALL POWER DISTRIBUTION EQUIPMENT FURNISHED OR MODIFIED IN THIS PROJECT, LABELS PER DETAILS AND SPECIFICATIONS.

B. SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT-CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A TYPE-WRITTEN ADHESIVE LABEL WITH WHITE BACKGROUND, 1/2" HIGH BLACK LETTERING.

C. ALL CIRCUIT BREAKERS AND/OR DISCONNECTS SERVING THE PRIMARY SIDE OF A TRANSFORMER WHICH ARE NOT WITHIN SITE OF THE TRANSFORMER SHALL BE PROVIDED WITH PERMANENTLY INSTALLED MEANS TO LOCK THE BREAKER IN THE OFF POSITION. SUCH TRANSFORMERS SHALL HAVE THE ROOM NAME AND NUMBER OF THE PRIMARY DISCONNECTING MEANS ENGRAVED ON THE EQUIPMENT NAMEPLATE.

D. REFER TO SPECIFICATIONS FOR ARC FLASH AND RELATED POWER SYSTEM STUDY REQURIEMENTS.

E. PROVIDE ALL DISTRIBUTION PANELBOARDS WITH MINIMUM OF 99" CIRCUIT BREAKER MOUNTING SPACE UNLESS NOTED OTHERWISE.

F. PROVIDE COPPER CONDUCTORS UNLESS NOTED OTHERWISE IN SCHEDULES.

G. MAIN SERVICE SWITCHBOARD SHALL BE 100% FULLY RATED OVER ITS DISTRIBUTION SECTIONS. DISTRIBUTION END BUS SECTIONS SHALL BE BUILT FOR FUTURE SECTIONS INCLUDING PRE-DRILLING BUS FOR FUTURE BUS EXTENSION.

H. INCREASE CONDUIT SIZE AS REQUIRED WHERE INSTALLING PVC CONDUIT UNDERGROUND.

I. ALL UNUSED SPACES IN SWITCHBOARDS AND DISTRIBUTION PANELBOARDS SHALL BE REPARED SPACES THAT ALLOW EASY INSTALLATION OF A CIRCUIT BREAKER.

J. PROVIDE GROUND LUGS FOR EACH DEVICE.

K. PROVIDE LOCKABLE CIRCUIT BREAKERS FOR ALL BREAKERS IN SWITCHBOARD.

TAGGED NOTES (RISER):

1. PROVIDE MAIN BONDING JUMPER, GROUNDING ELECTRODE CONDUCTORS, AND GROUNDING ELECTRODES AT SERVICE ENTRANCE. REFER TO GROUNDING ELECTRODE SYSTEM DETAIL FOR MORE INFORMATION.
2. PROVIDE SERVICE RATED THREE (3) SECTION 2500A/277/480V/3PH/4W SWITCHBOARD RATED AT 65KAIC MIN., SQUARE "D" QED-2 STYLE, OR EQUAL, WITH THE FOLLOWING SECTIONS:
   A. PULL SECTION: SECTION SHALL MEET ALL REQUIREMENTS OF THE LOCAL UTILITY COMPANY. SUBMIT TO UTILITY COMPANY PRIOR TO SUBMISSION OF SHOP DRAWINGS TO THE ENGINEER.
   B. MAIN SECTION: SECTION SHALL HOUSE 2500A/3P, SERVICE ENTRANCE 100% RATED FULL-FUNCTION, GFCI ELECTRONIC TRIP, MOLDED CASE "MICRO-LOGIC", MAIN CIRCUIT BREAKER WITH DIGITAL VOLT/AMMETER AND MAINTENANCE ARC ENERGY REDUCTION SWITCH. SECTION SHALL HOUSE MAIN SWITCHBOARD SPD DEVICE AS SPECIFIED.
   C. DISTRIBUTION SECTION: ONE (1) 2500A DOUBLE ROW SECTION WITH MINIMUM 63" OF MOUNTING SPACE FOR CIRCUIT BREAKERS.
3. PROVIDE MULTI-FUNCTION POWER METER. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
4. PROVIDE A PARALLEL CONNECTED SURGE SUPPRESSOR DEVICE (SPD). UNIT SHALL BE MOUNTED IN SWITCHBOARD. PROVIDE WITH EVENT COUNTER.
5. PORTABLE GENERATOR DOCKING STATION WITH MALE CAMLOCK CONNECTIONS.
6. PROVIDE I-LINE TYPE "HCJ" DISTRIBUTION PANEL (OR APPROVED EQUAL) WITH 36 INCHES OF MOUNTING SPACE.
7. PROVIDE I-LINE TYPE "HCJ" DISTRIBUTION PANEL (OR APPROVED EQUAL) WITH 45 INCHES OF MOUNTING SPACE.
8. PROVIDE I-LINE TYPE "HCP" DISTIBUTION PANEL (OR APPROVED EQUAL) WITH 72 INCHES OF MOUNTING SPACE.

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
ELECTRICAL RISER DIAGRAM

ORIG SUBMISSION: 2025.09.24

SHEET:
E701

ISSUE FOR PERMIT / BIDDING

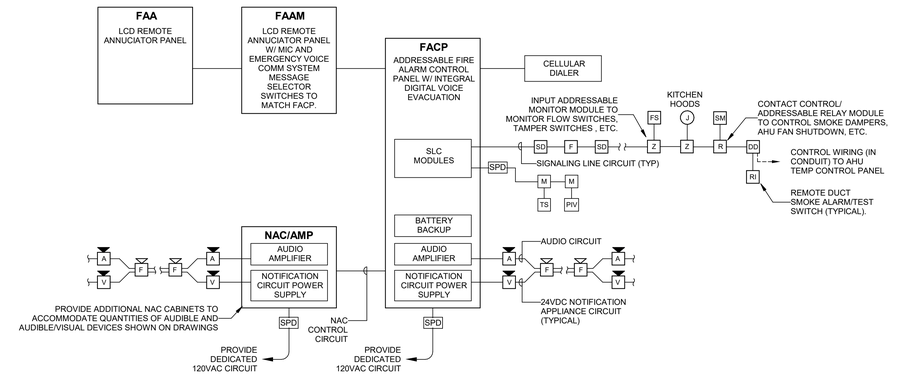
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH WHEN PLOTTED ON ORIGINAL PLOT SIZE

SYSTEM OUTPUT:

SYSTEM INPUT:	CONTROL UNIT FUNCTIONS										NOTIFICATION									CONTROL											
	ACTUATE AUDIBLE AND VISIBLE FIRE ALARM SIGNAL	ACTUATE AUDIBLE AND VISIBLE SUPERVISORY SIGNAL	ACTUATE AUDIBLE AND VISUAL TROUBLE SIGNAL	RECORD EVENT IN SYSTEM MEMORY	DISPLAY/PRINT ALARMED DEVICE LOCATION AND ADDRESS	SEND SIGNAL TO REMOTE ANNUNCIATOR AND FA NETWORK	TRANSMIT GENERAL ALARM TO SUPERVISING STATION	TRANSMIT SUPERVISORY TO SUPERVISING STATION	TRANSMIT TROUBLE TO SUPERVISING STATION	ACTIVATE AUDIBLE AND VISUAL NOTIFICATION DEVICES	ACTIVATE SPRINKLER WATERFLOW ALARM BELL	ACTIVATE LOCAL AUDIBLE ALARM (TEMPORAL 4 PATTERN)	SHUTDOWN ASSOCIATED HVAC EQUIPMENT	CLOSE ASSOCIATED SMOKE DAMPERS	SILENCE SPEAKERS AND DISABLE STROBES	TEMPORARY OVERRIDE FIRE ALARM MESSAGE AND FA STROBES	RECALL ELEVATOR TO DESIGNATED LEVEL	RECALL ELEVATOR TO ALTERNATE LEVEL	ACTIVATE ELEVATOR VISUAL WARNING SIGNAL	INITIATE ELEVATOR POWER SHUT-DOWN	RELEASE MAGNETIC DOOR HOLD OPENS	RELEASE ELECTRONICALLY LOCKED SECURITY DOORS					
MANUAL PULL STATION	●			●	●	●	●			●												●	●						
SMOKE/HEAT DETECTION	●			●	●	●	●			●												●	●						
SMOKE DETECTOR CONTAMINATION			●	●	●	●			●																				
SPRINKLER WATERFLOW SWITCH	●			●	●	●	●			●	●											●	●						
SPRINKLER TAMPER SWITCH		●		●	●	●		●																					
DUCT SMOKE DETECTOR - HVAC		●		●	●	●		●					●																
DUCT SMOKE DETECTOR - SMOKE DAMPER		●		●	●	●		●					●	●															
SMOKE DETECTOR - ELEVATOR LOBBY	●			●	●	●	●			●						●		●				●	●						
SMOKE DETECTOR - DESIGNATED LEVEL ELEVATOR LOBBY	●			●	●	●	●			●							●	●				●	●						
SMOKE DETECTOR - ELEVATOR MACHINE/CONTROL ROOM OR SPACE	●			●	●	●	●			●						●		●				●	●						
SMOKE DETECTOR - HOISTWAY		●		●	●	●		●								●		●											
HEAT DETECTOR - ELEVATOR HOISTWAY OR MACHINE/CONTROL ROOM OR SPACE	●			●	●	●	●			●								●	●	●		●	●						
ELEVATOR SHUNT TRIP VOLTAGE MONITORING		●		●	●	●		●																					
ALARM SILENCE AT FACP LOCATION		●		●	●	●		●							●														
MANUAL MICROPHONE ACTIVATION				●	●	●				●						●													
FIRE ALARM AC POWER FAILURE			●	●	●	●				●																			
FIRE ALARM DC POWER FAILURE/SYSTEM DISABLE			●	●	●	●				●																			
FIRE ALARM SYSTEM LOW BATTERY/FAILURE			●	●	●	●				●																			
VOICE AMPLIFIER FAILURE			●	●	●	●				●																			
OPEN CIRCUIT/GROUND FAULT/SHORT CIRCUIT			●	●	●	●				●																			
LOSS OF COMMUNICATION			●	●	●	●				●																			
DEVICE TAMPER		●		●	●	●		●																					
FIRE SUPPRESSION/EXTINGUISHING SYSTEM OPERATION	●			●	●	●		●		●												●	●						
FIRE SUPPRESSION/EXTINGUISHING SYSTEM TROUBLE		●		●	●	●		●																					
FIRE WATER SERVICE BACKFLOW ENCLOSURE LOW TEMP		●		●	●	●		●																					
HVAC SYSTEM SHUTDOWN BYPASS			●	●	●	●				●																			
EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM SUPERVISION		●		●	●	●		●																					

GENERAL FIRE ALARM NOTES:

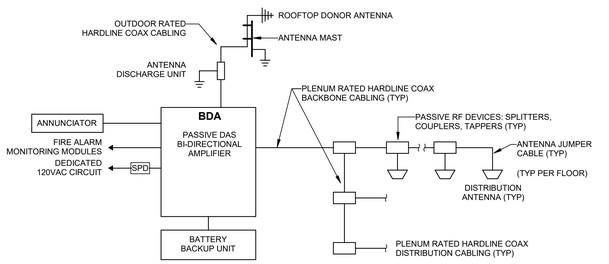
A. RISER DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND DEVICE INTERCONNECTION ONLY. SEE PLANS FOR LOCATION AND QUANTITIES OF DEVICES. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES TO MEET THE INTENT OF THE SPECIFICATIONS.
B. PROVIDE FOR DOOR RELEASE UPON FIRE ALARM SIGNAL TO DOORS WITH ACCESS CONTROL DEVICES OR MAGNETIC DOOR HOLD OPEN DEVICES.
C. PROVIDE CELLULAR DIALER FOR INTERFACE WITH CENTRAL MONITORING STATION.
D. FIRE ALARM WIRING SHALL BE INSTALLED IN MINIMUM 3/4"C.
E. INTERLOCK FIRE ALARM SYSTEM WITH AIR HANDLING UNITS, FIRE DAMPERS AND SMOKE DAMPERS TO PROVIDE FAN SHUTDOWN AND DAMPER CLOSURE AS REQUIRED BY NFPA.
F. LOCATE ADDRESSABLE RELAY MODULES WITHIN 3'-0" OF ASSOCIATED MOTOR STARTER.
G. LOCATE REMOTE ALARM/TEST SWITCH STATION ADJACENT TO ENTRANCE DOORS OF MECHANICAL ROOMS.
H. PROVIDE SEPARATE SIGNALING LINE CIRCUIT (SLC) TO EACH ZONE OR FLOOR.
I. PROVIDE 25% SPARE CAPACITY ON EACH NOTIFICATION APPLIANCE CIRCUIT.
J. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCRONIZED TO ACCOMODATE BUILDING STANDARDS.
K. SURGE PROTECTION SHALL BE INSTALLED ON THE AC SUPPLY CIRCUIT AT ALL FIRE ALARM PANELS AND ON ALL INITIATING, NOTIFICATION AND MONITORING CIRCUITS AT THE FIRE ALARM PANEL. IN ADDITION SURGE PROTECTION SHALL BE INSTALLED ON ALL INITIATING, NOTIFICATION AND MONITORING CIRCUITS AT ALL POINTS OF ENTRY TO A BUILDING FROM THE OUTSIDE.
L. CIRCUIT BREAKERS FOR FIRE ALARM SYSTEM CIRCUIT MUST BE RED AND MUST BE DEDICATED.



1 FIRE ALARM BLOCK DIAGRAM - ADDRESSABLE W/INTEGRAL VOICE

NO SCALE

NOTES:
A. COMPLY WITH FIRE CODE AND NFPA 1225.
B. RISER DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND DEVICE INTERCONNECTION ONLY. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES REQUIRED TO MEET THE INTENT AND PERFORMANCE REQUIREMENTS OF THE SPECIFICATIONS.
C. COORDINATE LOCATION OF DONOR ANTENNA WITH RF SIGNAL STRENGTH FROM NEAREST TOWER PRIOR TO INSTALLATION.
D. PROVIDE GROUNDING/BONDING FOR ALL OUTDOOR CABLES, ANTENNAS, AND MASTS IN ACCORDANCE WITH NEC CHAPTER 810.
E. PROVIDE SERVICE LOOP FOR ALL COAXIAL CABLING ON ROOF LEVEL.
F. PROVIDE CONNECTIONS TO FIRE ALARM SYSTEM VIA SYSTEM MONITORING MODULES.
G. COORDINATE FINAL LOCATION OF SYSTEM ANNUNCIATOR WITH AHJ PRIOR TO ROUGH-IN.



2 EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES)

NO SCALE

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COLUMBUS COUNTY SCHOOLS PK-8

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E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
FIRE ALARM RISER DIAGRAM

ORIG SUBMISSION: 2025.09.24

SHEET:
E702

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SETS

GYM SOUND AUDIO/VISUAL EQUIPMENT SCHEDULE

QUANTITY	MANUFACTURER OR APPROVED EQUAL	MODEL	DESCRIPTION
1	CRESTRON	DMPS3-4K-250-C	4K PRESENTATION SWITCHER
3	CRESTRON	DM-TX-201-C	4K RACK MOUNT HDMI TRANSMITTER
2	CRESTRON	DM-RMC-4KZ-100-C	4K RACK MOUNT HDMI RECIEVER
2	CRESTRON	DM-TX-4KZ-100-C-1G	4K WALL PLATE HDMI TRANSMITTER
3	CRESTRON	DM-RMC-4K-100-C-1G	4K WALL PLATE HDMI RECIEVER
1	CRESTRON	HD-DA4-4KZ	1:4 HDMI DISTRIBUTION AMPLIFIER
1	CRESTRON	TSW-1070	TOUCH PANEL CONTROL STATION
1	CRESTRON	C2N-IO	RELAY CONTROL MODULE
1	CRESTRON	DSP-1280	DIGITAL SIGNAL PROCESSOR
1	TASCAM	CD-400U	RACK MOUNTABLE CD/MP3 PLAYER
1	DENON	DN-300BR	BLUETOOTH RECEIVER
3	COMMUNITY	ALC-1604D	QUAD CHANNEL AMPLIFIER W/ AUDIO LIMITERS
1	ATLAS SOUND	AP-S15LA	RACK MOUNTABLE POWER PANEL
1	WILLIAMS SOUND	FM-T55, ANT-005	ASSISTIVE LISTENING TRANSMITTER
12	WILLIAMS SOUND	PPA-R37-8	ASSISTIVE LISTENING RECEIVER W/ MONO EARBUD, BELT CLIP
1	WILLIAMS SOUND	CHG-3512	ASSISTIVE LISTENING CHARGER
2	SHURE	ULXS124/85-M1	WIRELESS MICROPHONE SYSTEM
2	SHURE	UA820C	RECEIVER ANTENNA
1	SHURE	UA844SWB	WIDEBAND FOUR-WAY ACTIVE ANTENNA SPLITTER AND POWER DIST SYSTEM
1	SHURE	UA507	RACK MOUNT KIT FOR DOUBLE RECEIVER
4	SHURE	SM58S	DYNAMIC CARDIOID MICROPHONE
1	ATLAS SOUND	WMA24	WALL MOUNTED EQUIPMENT RACK
4	ATLAS SOUND	MS-20	MICROPHONE FLOOR STAND
4	WHIRLWIND	MK4xx	MIC CABLE
	BTX	PL-103F	MICROPHONE OUTLET WITH 3 PIN XLR
6	COMMUNITY	R.5-94Z	2-WAY LOUDSPEAKER
2	COMMUNITY	R.5-99Z	2-WAY LOUDSPEAKER

GYM STAGE AUDIO/VISUAL EQUIPMENT SCHEDULE

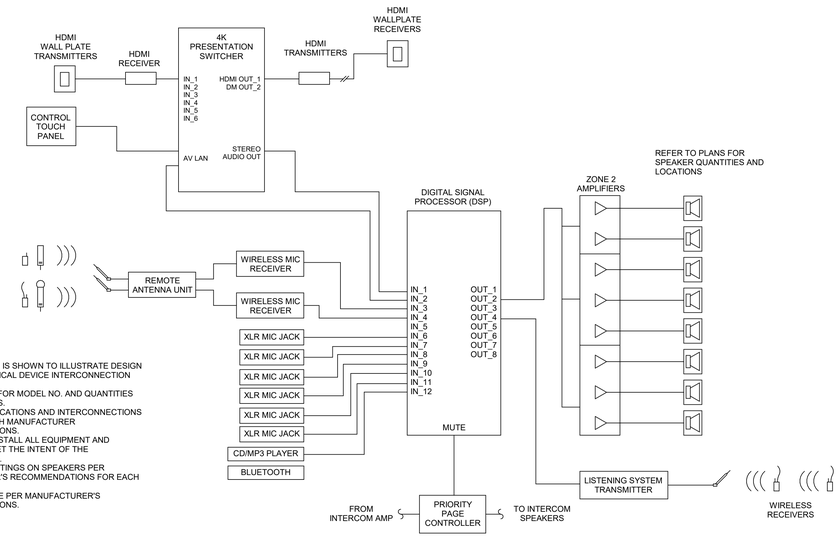
QUANTITY	MANUFACTURER OR APPROVED EQUAL	MODEL	DESCRIPTION
2	ELECTRO-VOICE	SX-100+E MB200	2-WAY LOUDSPEAKER W/ MOUNTING BRACKET
1	DYNACORD	C1800FDI	2-CHANNEL AMPLIFIER W/ AUDIO LIMITERS
6	MONOPRICE	601510	4-POLE NL4 FEMALE SPEAKER TWIST CONNECTOR
1	KRAMER	30-80484090 / SL-240C	16-PORT MASTER/ROOM CONTROLLER
1	KRAMER	30-00000190 / KT-1010	10" MULTI TOUCH PANEL
1	KRAMER	60-200110 / RK-T2SB-B	19" RACK ADAPTER
1	SENNHEISER	507150 EM-XSW 2 / SKM 865 XSW	WIRELESS MIC W/ RECIEVER
1	SENNHEISER	507122 EM-XSW 2 / SK XSW / ME2-II / NT 12-5 CW	WIRELESS RECEIVER W/ TRANSMITTER
1	DRAPER	Z-372071-1 ACUMEN XL V 255	PROJECTOR SCREEN
1	LEGRAND AV	RPA-U	PROJECTOR MOUNT
1		CHIEF CMA-115S	CEILING PLATE
1		CHIEF CMA-370	STRUT ADAPTER MOUNTING KIT
1		CHIEF CMA-006	FIXED EXTENSION COLUMN
1	AMPLIVOX	SN3635-CH	MOBILE LECTURN
1	EPSON	V11HA68820 / EB-PU2213B V12H004X0B / ELPLX02S	PROJECTOR W/ FIXED LENS
1	SCREENBEAM	SBWD1000EDU	WIRELESS PRESENTATION DEVICE
1	KRAMER	59-80566090 / AFM-20DSP-AEC	DIGITAL SIGNAL PROCESSOR
1	KRAMER	50-80471090 / TP590R	HDMI RECEIVER
1	KRAMER	60-200210 / RK-T2B-B	RACK MOUNTING ADAPTER
1	EATON	5P750RC	RACK UPS
1	LENOVO	11DN009US	DESKTOP COMPUTER
1	LENOVO	21DM003LUS	TOUCHSCREEN NOTEBOOK

GENERAL EQUIPMENT SCHEDULE

QUANTITY	MANUFACTURER OR APPROVED EQUAL	MODEL	DESCRIPTION
	WEST PENN	25292B	NO. 20 AWG STRANDED, SHIELDED, PLENUM MICROPHONE CABLE
	WEST PENN	25226B	NO. 14 AWG STRANDED, PLENUM LOUDSPEAKER CABLE
	WEST PENN	25359B	NO. 20 AWG STRANDED, SHIELDED, PLENUM INTERCOM CABLE
	PHOENIX CONTACT		PHOENIX CONNECTORS AS NEEDED

ANNOUNCER SOUND EQUIPMENT SCHEDULE

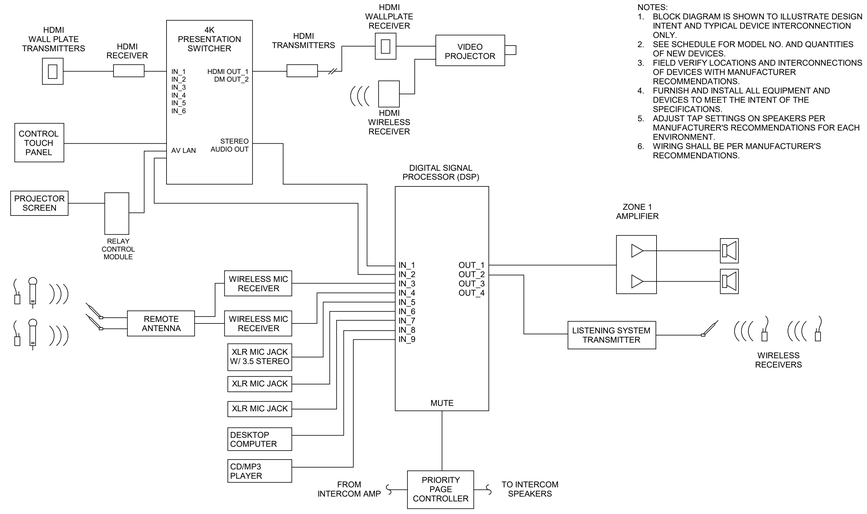
QUANTITY	MANUFACTURER OR APPROVED EQUAL	MODEL	DESCRIPTION
1	GATOR CASE	GR-2L	MOLDED PE RACK CASE, FRONT, REAR RAILS, 2U, 19" DEEP
1	SHURE	SCM268	4 CHANNEL ANALOG AUDIO MIXER WITH RACK MOUNT KIT
1	DENON	DN-300Z	RACK MOUNTABLE CD/MP3 PLAYER
2	SHURE	SM58S	DYNAMIC CARDIOID MICROPHONE
2	SHURE	450 SERIES 2	DESKTOP MICROPHONE
1	CUSTOM	-	1 RACK U BLANK PANEL WITH KNOCKOUTS FOR 4 MIC INS AND 1 MIC OUT.
4	NEUTRIK	NC3FD-L-B-1	XLR CHASIS MOUNT FEMALE CONNECTOR (BLACK)
1	NEUTRIK	NC3MD-L-B-1	XLR CHASIS MOUNT MALE CONNECTOR (BLACK)
1	PROCO CABLES	EXMN-20	XLR MIC CABLES 20'
1	PROCO CABLES	EXMN-25	XLR MIC CABLES 25'
1	CUSTOM	-	MISCELLANEOUS CABLES FOR CD/MP3 PLAYER AND INTERCONNECTIONS



NOTES:
1. BLOCK DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND TYPICAL DEVICE INTERCONNECTION ONLY.
2. SEE SCHEDULE FOR MODEL NO. AND QUANTITIES OF NEW DEVICES.
3. FIELD VERIFY LOCATIONS AND INTERCONNECTIONS OF DEVICES WITH MANUFACTURER RECOMMENDATIONS.
4. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES TO MEET THE INTENT OF THE SPECIFICATIONS.
5. ADJUST TAP SETTINGS ON SPEAKERS PER MANUFACTURER'S RECOMMENDATIONS FOR EACH ENVIRONMENT.
6. WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

2 GYM AUDIO SYSTEM BLOCK DIAGRAM

NO SCALE



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4. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES TO MEET THE INTENT OF THE SPECIFICATIONS.
5. ADJUST TAP SETTINGS ON SPEAKERS PER MANUFACTURER'S RECOMMENDATIONS FOR EACH ENVIRONMENT.
6. WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

4 GYM STAGE AUDIO SYSTEM BLOCK DIAGRAM

NO SCALE

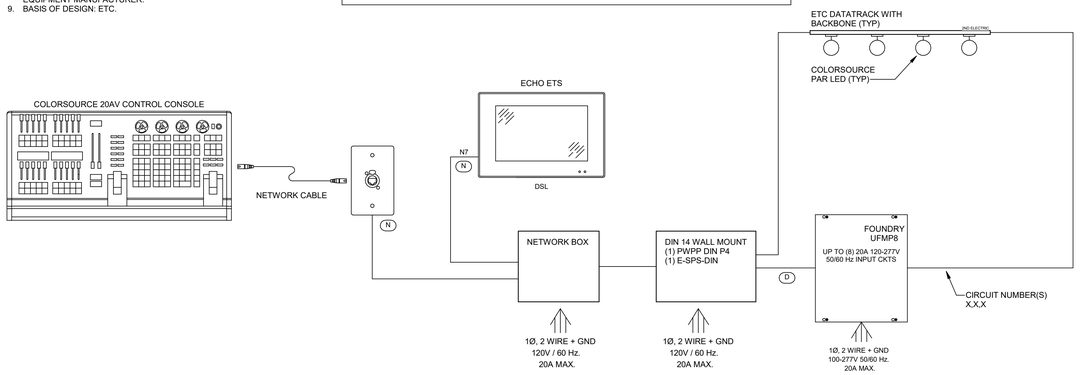
NOTES:
1. PROVIDE ALL ELECTRICAL TERMINATIONS, WIRE AND CONDUIT NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
2. PROVIDE IN-WALL CABLE LENGTHS FOR ALL NETWORK PORTS AND LABEL ALL FACEPLATES.
3. ALL CONTROL, DIMMING, DISTRIBUTION, FIXTURES AND DEVICES SHALL BE STORED IN A SECURE, DRY LOCATION.
4. ALL DEVICES INDICATED ON THE RISER SHALL BE PLACED, MOUNTED AND INSTALLED.
5. ALL NON NETWORK LOW VOLTAGE TERMINATIONS AND SYSTEM PROGRAMMING SHALL BE PERFORMED BY A CERTIFIED INTEGRATOR.
6. ALL ETHERNET CABLE IS HOME RUN TO LIGHTING CONTROL EQUIPMENT RACK, DO NOT EXCEED 100M INCLUDING PORTABLE PLUG-IN EXTENSION WHEN APPLICABLE. FIBER CABLE MUST BE USED OVER 100 METERS. ALL NETWORK TO BE PROVIDED BY CERTIFIED CABLE INSTALLER.
7. PROVIDE NECEESARY LIFTS TO MAINTAIN EQUIPMENT ACCESS DURING PROGRAMMING AND ACCEPTANCE TESTING OF SYSTEM.
8. THE INTEGRATOR SHALL BE CERTIFIED BY THE EQUIPMENT MANUFACTURER.
9. BASIS OF DESIGN: ETC.

WIRING LEGEND AND CONTROL WIRE NOTES

D (1) TMB PC244T (DMX) (MAX 500M)

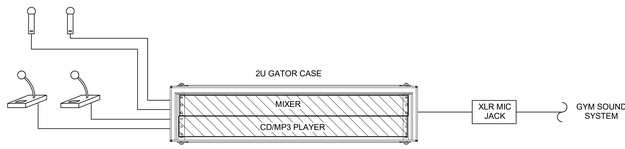
N (1) CAT 5e (ETCNET) BELDEN #1583A (MAX 100M UNSPLICED)

1. WIRE TYPE "D" IS DMX PROTOCOL. ECHO WIRING RUNS MAY BE HOMERUN, STAR, "T", OR DAISY CHAINED.
2. WIRE TYPE "N" IS NETWORK FOLLOW TCP/IP PROTOCOL ALL CAT5E OR CAT6 ARE HOME RUNS TO ARCHITECTURAL CONTROL PANEL. ALL CONTROL CABLE MUST BE MARKED AND LABELED FOR IDENTIFICATION IN THE FIELD. ALL NETWORK CONNECTIONS TO BE TIA/EIA 568B.



3 GYM PERFORMANCE LIGHTING CONTROL DIAGRAM

NO SCALE



6 MAIN GYM ANNOUNCER SOUND SYSTEM BLOCK DIAGRAM

NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

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SHEET NAME:
GYM AUDIO/VISUAL BLOCK DIAGRAMS

ORIG SUBMISSION: 2025.09.24

SHEET:
E703

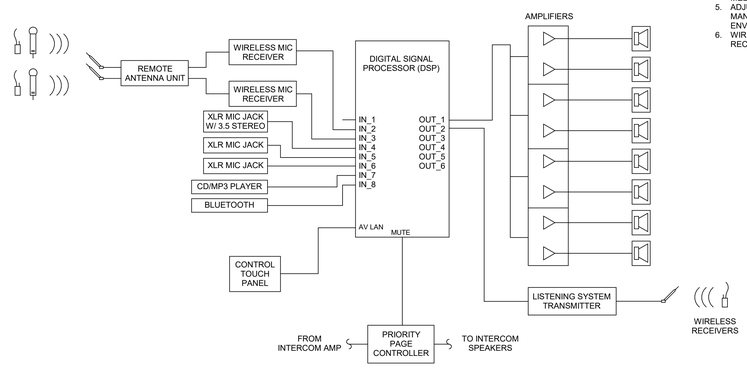
ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PAGE SIZE

CAFETERIA SOUND EQUIPMENT SCHEDULE			
QUANTITY	MANUFACTURER	MODEL	DESCRIPTION
1	CRESTRON	TSW-770	7" TOUCH PANEL CONTROL STATION W/ CLEAR VANDAL RESISTANT COVER
1	CRESTRON	DSP-860	DIGITAL SIGNAL PROCESSOR
1	TASCAM	CD-400U	RACK MOUNTABLE CD/MP3 PLAYER
1	DENON	DN-300BR	BLUETOOTH RECEIVER
4	CROWN	CDI 1000	DUAL CHANNEL AMPLIFIER
1	ATLAS SOUND	AP-S15LA	RACK MOUNTABLE POWER PANEL
1	WILLIAMS SOUND	FM-T55, ANT-005	ASSISTIVE LISTENING TRANSMITTER
12	WILLIAMS SOUND	PPA-R37-8	ASSISTIVE LISTENING RECEIVER W/ MONO EARBUD, BELT CLIP
1	WILLIAMS SOUND	CHG-3512	ASSISTIVE LISTENING CHARGER
2	SHURE	ULXS124/85-M1	WIRELESS MICROPHONE SYSTEM
1	SHURE	UA844SWB	WIDEBAND FOUR-WAY ACTIVE ANTENNA SPLITTER AND POWER DIST SYSTEM
2	SHURE	UA820C	RECEIVER ANTENNA
1	SHURE	UA507	RACK MOUNT KIT FOR DOUBLE RECEIVER
4	SHURE	SM58S	DYNAMIC CARDIOID MICROPHONE
1	ATLAS SOUND	MS-20	MICROPHONE FLOOR STAND
4	WHIRLWIND	MK425	25FT MIC CABLE
	BTX	PL-103F	MICROPHONE OUTLET WITH 3 PIN XLR
8	ATLAS SOUND	SD72	IN-LAY CEILING LOUDSPEAKER WITH / T-GRID ADAPTER
1	ATLAS SOUND	WMA24	WALL MOUNTED EQUIPMENT RACK
	WEST PENN	25292B	NO. 20 AWG STRANDED, SHIELDED, PLENUM MICROPHONE CABLE
	WEST PENN	25226B	NO. 14 AWG STRANDED, PLENUM LOUDSPEAKER CABLE
	WEST PENN	25359B	NO. 20 AWG STRANDED, SHIELDED, PLENUM INTERCOM CABLE

2 CAFETERIA SOUND SYSTEM SCHEDULE

NO SCALE



NOTES:
1. BLOCK DIAGRAM IS SHOWN TO ILLUSTRATE DESIGN INTENT AND TYPICAL DEVICE INTERCONNECTION ONLY.
2. SEE SCHEDULE FOR MODEL NO. AND QUANTITIES OF NEW DEVICES.
3. FIELD VERIFY LOCATIONS AND INTERCONNECTIONS OF EXISTING DEVICES IN AREAS TO REMAIN.
4. FURNISH AND INSTALL ALL EQUIPMENT AND DEVICES TO MEET THE INTENT OF THE SPECIFICATIONS.
5. ADJUST TAP SETTINGS ON SPEAKERS PER MANUFACTURER'S RECOMMENDATIONS FOR EACH ENVIRONMENT.
6. WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

1 CAFETERIA AUDIO VISUAL SYSTEM BLOCK DIAGRAM

NO SCALE

COLUMBUS COUNTY SCHOOLS

COLUMBUS COUNTY SCHOOLS

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10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

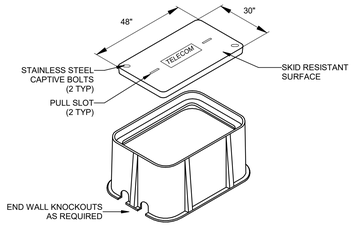
SHEET NAME:
CAFETERIA AUDIO BLOCK DIAGRAMS

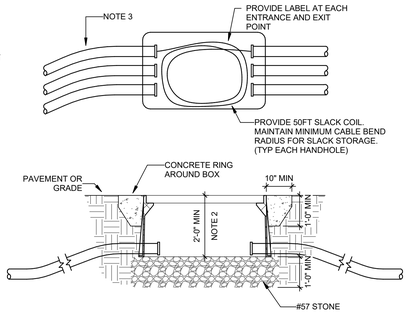
ORIG SUBMISSION: 2025.09.24

SHEET:
E704

ISSUE FOR PERMIT / BIDDING

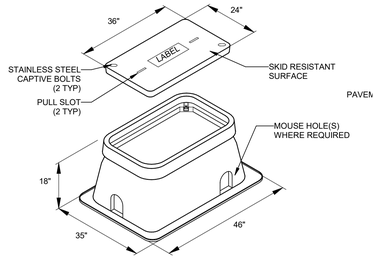
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ORIGINAL PLOT SIZE



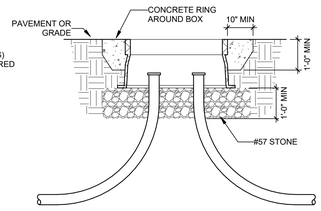


NOTES:
1. POLYMER CONCRETE LID AND ENCLOSURE (MIN TIER 15 RATING, PARKING LOTS - TIER 22 RATING)
2. PROVIDE EXTENSIONS AS NECESSARY TO INSTALL WITH BASE BELOW THE FROST LINE
3. HANDHOLES SHALL NOT BE USED FOR CHANGE OF DIRECTION. ALL DIRECTIONAL CHANGES SHALL BE MADE PRIOR TO ENTRY OR AFTER EXITING HANDHOLE USING LONG RADIUS SWEEPS.
4. SEAL CONDUITS TO PREVENT WATER INTRUSION.

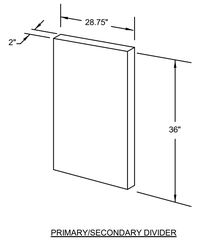
2 TELECOMM HANDHOLE - NON TRAFFIC
NO SCALE



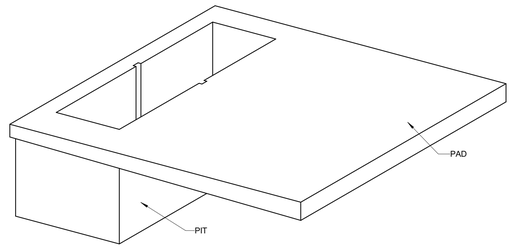
NOTES:
1. POLYMER CONCRETE LID AND ENCLOSURE (MIN TIER 15 RATING, PARKING LOTS - TIER 22 RATING)
2. PROVIDE EXTENSIONS AS NECESSARY TO INSTALL WITH BASE BELOW THE FROST LINE
3. SIZE PER NEC 314.28
4. SEAL CONDUITS TO PREVENT WATER INTRUSION.

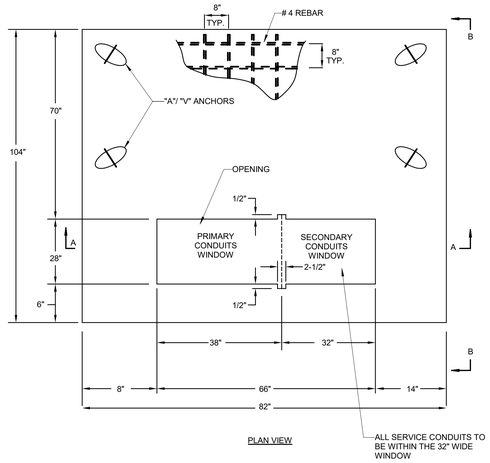


1 ELECT HANDHOLE - NON TRAFFIC
NO SCALE

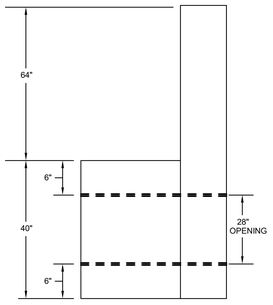


PRIMARY/SECONDARY DIVIDER

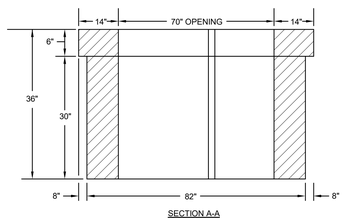




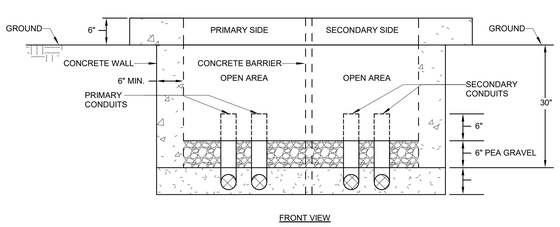
PLAN VIEW



SECTION B-B



SECTION A-A



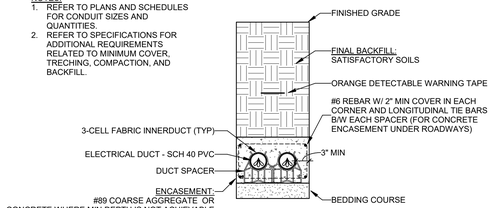
FRONT VIEW

INSTALLATION OF LARGE TWO-PIECE PRE-CAST PIT PAD

1. REFER TO DUKE ENERGY DOCUMENTS FOR DETAILED INSTRUCTIONS AND CONTRACTOR REQUIREMENTS.
2. DIG HOLE APPROXIMATELY 46" X 82" AND 36" DEEP FOR THE PIT.
   A. NOTE: PAD TO BE LOCATED SO THAT THERE IS A MINIMUM OF 10 FEET CLEARANCE MAINTAINED IN FRONT OF THE TRANSFORMER AND A MINIMUM OF 3 FEET CLEARANCE BE MAINTAINED ON ALL OTHER SIDES.
3. INSTALL (2) CONDUIT ELBOWS IN THE BOTTOM OF THE HOLE FOR THE PRIMARY CONDUCTORS AS SPECIFIED FROM DUKE ENERGY ENTERING FROM THE FRONT OF THE HOLE. THESE ARE TO BE PLACED SO THEY COME UP IN THE CENTER OF THE PRIMARY SIDE OF THE WINDOW OPENING.
   A. NOTE: THE SECONDARY CONDUITS SHOULD BE INSTALLED AT THIS TIME.
4. FILL APPROXIMATELY 6" OF LEVELED, COMPACT SOIL IN THE HOLE TO SUPPORT THE CONDUIT ELBOWS. INSTALL THE PIT SO THAT THE CONDUITS ARE LOCATED IN THE CORRECT POSITION WITHIN THE WINDOW.
   A. NOTE: MAKE SURE THE PIT IS INSTALLED LEVEL AND FLUSH, SO THAT WHEN THE PAD IS INSTALLED THE BOTTOM IS IN CONTACT WITH THE ENTIRE SURFACE OF THE TOP OF THE PIT.
5. FILL BOTTOM OF PIT WITH 6" OF PEA GRAVEL.
6. APPLY A LAYER OF CONSEAL ON THE TOP OF THE PIT BEFORE PLACING THE PAD ONTO THE PIT.
7. INSTALL THE FLAT PORTION OF THE PAD ON THE GROUND AND PIT, LINING UP THE WINDOW OF THE PAD WITH THE PIT. SECURE THE PAD TO THE PIT.
8. ADD THE DIVIDER INTO THE GROOVES IN THE PAD AND PIT SO THAT IT IS FLUSH WITH THE TOP OF THE PAD.
   A. NOTE: CUT OFF ALL ELBOWS 6" ABOVE GRAVEL

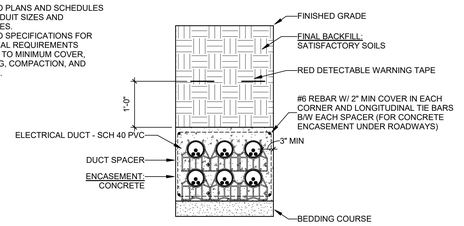
7 LARGE PIT PAD MOUNTED UTILITY TRANSFORMER CONCRETE PAD DETAIL
NO SCALE

NOTES:
1. REFER TO PLANS AND SCHEDULES FOR CONDUIT SIZES AND QUANTITIES.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO MINIMUM COVER, TRECHING, COMPACTION, AND BACKFILL.



5 TYP TELECOMM DUCT BANK (UGT)
NO SCALE

NOTES:
1. REFER TO PLANS AND SCHEDULES FOR CONDUIT SIZES AND QUANTITIES.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO MINIMUM COVER, TRECHING, COMPACTION, AND BACKFILL.



3 TYP SECONDARY DUCTBANK (SEC)
NO SCALE

NOTES:
1. REFER TO PLANS AND SCHEDULES FOR CONDUIT SIZES AND QUANTITIES.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO MINIMUM COVER, TRECHING, COMPACTION, AND BACKFILL.

6 TYP UNDERGROUND BRANCH CIRCUIT
NO SCALE

NOTES:
1. REFER TO PLANS AND SCHEDULES FOR CONDUIT SIZES AND QUANTITIES.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO MINIMUM COVER, TRECHING, COMPACTION, AND BACKFILL.

4 TYP ELECT FEEDER DUCT BANK (UGE)
NO SCALE

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SHEET NAME:
ELECTRICAL SITE DETAILS

ORIG SUBMISSION: 2025.09.24

SHEET:
E801

ISSUE FOR PERMIT / BIDDING

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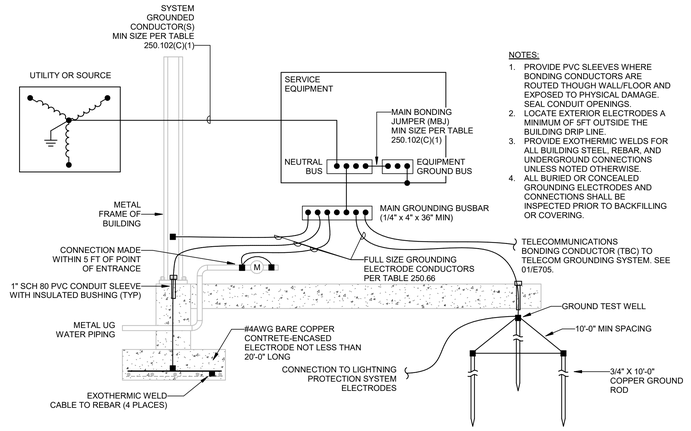
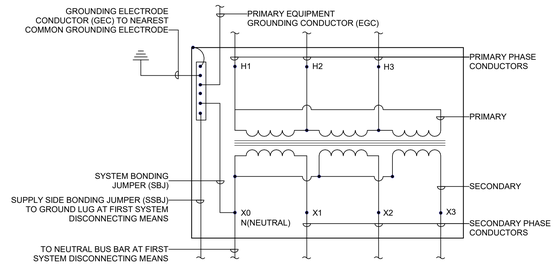


NOTES:
1. PROVIDE PVC SLEEVES WHERE BONDING CONDUCTORS ARE ROUTED THOUGH WALL/FLOOR AND EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
2. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.
3. PROVIDE EXOTHERMIC WELDS FOR ALL BUILDING STEEL, REBAR, AND UNDERGROUND CONNECTIONS UNLESS NOTED OTHERWISE.
4. ALL BURIED OR CONCEALED GROUNDING ELECTRODES AND CONNECTIONS SHALL BE INSPECTED PRIOR TO BACKFILLING OR COVERING.

4 GROUNDING ELECTRODE SYSTEM DETAIL

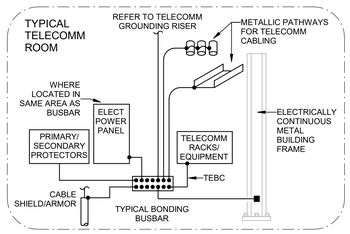
NO SCALE



5 TRANSFORMER (DRY-TYPE) GROUNDING DETAIL

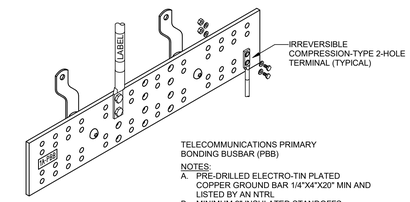
NO SCALE

NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C
2. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.
3. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA/EIA 606 REQUIREMENTS.
4. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.
5. ALL METALLIC RACEWAYS FOR TELECOMM CABLING SHALL BE BONDED TO BUSBAR IF LOCATED IN SAME ROOM OR AREA.
6. WHERE THE OSP OR BACKBONE CABLING INCORPORATES A SHIELD OR METALLIC ARMOR, IT SHALL BE BONDED TO THE BUSBAR WHERE THE CABLES ARE TERMINATED OR WHERE THE PAIRS ARE BROKEN OUT FROM THE CABLE SHEATH.
7. BONDING CONDUCTOR TO BUILDING STEEL SHALL BE SIZED TO MATCH BACKBONE CONDUCTOR. OTHER BONDING CONDUCTORS SHALL BE A MINIMUM #6 AWG AND INSTALLED WITH A MINIMUM 8-INCH BEND RADIUS.
8. BONDING CONDUCTORS FOR ENTRANCE PROTECTORS AND CABLE SHIELDING CAPABLE OF CONDUCTING LIGHTNING AND FAULT CURRENTS SHALL MAINTAIN A MINIMUM OF 1FT SEPARATION FROM ALL TELECOMM CABLING.



6 TELECOMM BUSBAR CONNECTIONS

NO SCALE

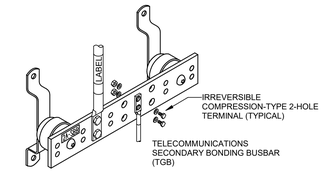


TELECOMMUNICATIONS PRIMARY BONDING BUSBAR (PBB)

NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

1 TELECOMM BUSBAR - PBB

NO SCALE

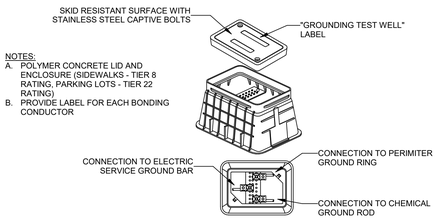


TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (TGB)

NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X2"X12" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

2 TELECOMM BUBAR - SBB

NO SCALE



NOTES:
A. POLYMER CONCRETE LID AND ENCLOSURE (SIDEWALKS - TIER 8 RATING, PARKING LOTS - TIER 22 RATING)
B. PROVIDE LABEL FOR EACH BONDING CONDUCTOR

3 GROUND INSPECTION WELL

NO SCALE

COLUMBUS COUNTY SCHOOLS

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WILMINGTON, NORTH CAROLINA 28401
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ELECTRICAL GROUNDING DETAILS

ORIG SUBMISSION: 2025.09.24

SHEET:
E802

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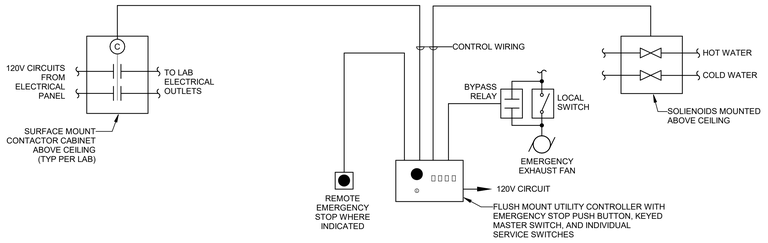
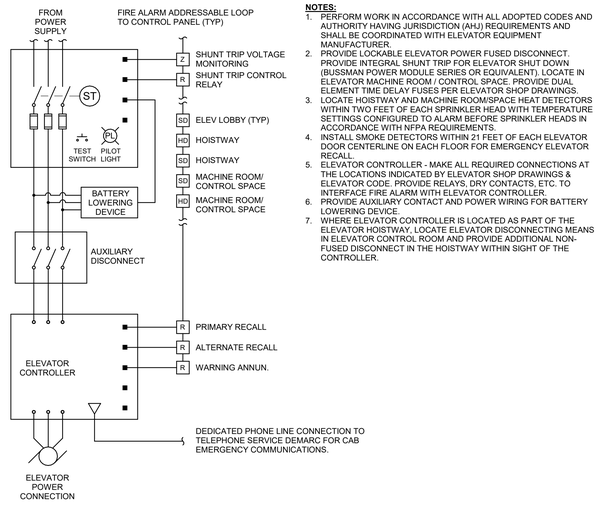


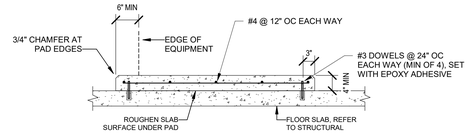
NOTES:
1. ACTIVATION OF EMERGENCY PUSHBUTTON(S) OR FLOW AT THE EMERGENCY SHOWER SHALL PERFORM THE FOLLOWING FUNCTIONS:
   A. CLOSE VALVES FOR THE HOT AND COLD WATER SOURCES SERVING THE CLASSROOM (EXCEPT THOSE SERVING THE EMERGENCY SHOWER AND EYE WASH)
   B. INTERRUPT POWER TO ALL ELECTRICAL DEVICES (EXCEPT LIGHTING AND EXHAUST FANS)
   C. OVERRIDE MANUAL ON/OFF SWITCH AND TURN ON THE LAB EMERGENY EXHAUST FAN.
2. PROVIDE ALL DEVICES, VALVES, CABLING, ENCLOSURES, AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE LOCATIONS AND SYSTEM INTERFACES WITH OTHER TRADES PRIOR TO ROUGH-IN.
3. SOLENOID DEVICES SHALL BE NORMALLY CLOSED.
4. ELECTRICAL CONTACTORS USED TO INTERRUPT POWER SHALL FAIL OPEN.
5. EMERGENCY PUSHBUTTONS SHALL HAVE A KEYED RESET.
6. ALL POWER AND CONTROL WIRING SHALL BE INSTALLED IN CONDUIT INDEPENDENT OF OTHER BUILDING SYSTEMS.
7. PROVIDE QUANTITY OF CONTACTORS TO ACCOMODATE NUMBER OF CIRCUITS SHOWN ON PLANS PLUS (2) SPARES.

6 LAB UTILITY CONTROLLER WITH EMERGENCY SHUTDOWN
NO SCALE

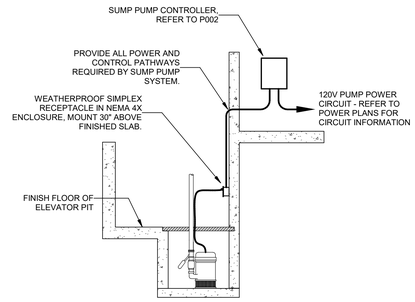


NOTES:
1. PERFORM WORK IN ACCORDANCE WITH ALL ADOPTED CODES AND AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS AND SHALL BE COORDINATED WITH ELEVATOR EQUIPMENT MANUFACTURER.
2. PROVIDE LOCKABLE ELEVATOR POWER FUSED DISCONNECT. PROVIDE INTEGRAL SHUNT TRIP FOR ELEVATOR SHUT DOWN (BUSSMAN POWER MODULE SERIES OR EQUIVALENT). LOCATE IN ELEVATOR MACHINE ROOM / CONTROL SPACE. PROVIDE DUAL ELEMENT TIME DELAY FUSES PER ELEVATOR SHOP DRAWINGS.
3. LOCATE HOISTWAY AND MACHINE ROOM/SPACE HEAT DETECTORS WITHIN TWO FEET OF EACH SPRINKLER HEAD WITH TEMPERATURE SETTINGS CONFIGURED TO ALARM BEFORE SPRINKLER HEADS IN ACCORDANCE WITH NFPA REQUIREMENTS.
4. INSTALL SMOKE DETECTORS WITHIN 21 FEET OF EACH ELEVATOR DOOR CENTERLINE ON EACH FLOOR FOR EMERGENCY ELEVATOR RECALL.
5. ELEVATOR CONTROLLER - MAKE ALL REQUIRED CONNECTIONS AT THE LOCATIONS INDICATED BY ELEVATOR SHOP DRAWINGS & ELEVATOR CODE. PROVIDE RELAYS, DRY CONTACTS, ETC. TO INTERFACE FIRE ALARM WITH ELEVATOR CONTROLLER.
6. PROVIDE AUXILIARY CONTACT AND POWER WIRING FOR BATTERY LOWERING DEVICE.
7. WHERE ELEVATOR CONTROLLER IS LOCATED AS PART OF THE ELEVATOR HOISTWAY, LOCATE ELEVATOR DISCONNECTING MEANS IN ELEVATOR CONTROL ROOM AND PROVIDE ADDITIONAL NON-FUSED DISCONNECT IN THE HOISTWAY WITHIN SIGHT OF THE CONTROLLER.

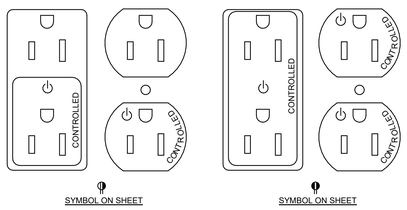
2 ELEVATOR POWER WIRING DIAGRAM
NO SCALE



1 TYP HOUSEKEEPING PAD
NO SCALE



3 ELEVATOR SUMP PUMP
NO SCALE



NOTES:
1. ANY RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE MUST BE MARKED WITH A SYMBOL LOCATED ON THE CONTROLLED OUTLET IN ACCORDANCE WITH NEC ARTICLE 406.3(E)

7 SWITCHED RECEPT DETAIL
NO SCALE

DISC. SWITCH AHU-1
60A N/F, 208V, 3PH,3W 60A
FROM: DP-5,7 (ELECT 501)

STARTER AHU-1
NEMA 00, 208V, 3PH,3W 60A
FROM: DP-5,7 (ELECT 501)

PULLBOX (PB-1)
CIRCUITS: DP-1,3,5,7
FROM: PANEL DP (ELECT 501)

SWITCHBOARD MDP
1600A MCB, 208Y/120V, 3PH,4W
SERVICE ENTRANCE
FED FROM 500KVA UTILITY XFMR
NORTHEAST SIDE OF BUILDING
- 1/2"H, STANDARD BLOCK LETTERING
- 1/4"H, STANDARD BLOCK LETTERING

PANELBOARD RP1
225A MLO, 208Y/120V 3PH,4W
FROM: MDP (ELECT 002)
(1) SETS - (3)#4/0Ø, (1)#4/0N, (1)#4G

FACP
FIRE ALARM CONTROL PANEL
FROM: RP1-20 (ELECT 101)

IDENTIFICATION 208Y/120V, 3Ø,4W	IDENTIFICATION 480Y/277V, 3Ø,4W
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - GRAY
GROUND - GREEN	GROUND - GREEN

SERVICE DISCONNECT SWITCH

NOTES:
- REFER TO SPECIFICATIONS FOR NAMEPLATE BACKGROUND AND LETTERING COLORS.
- PROVIDE NAMEPLATES ON ALL NEW OR MODIFIED POWER DISTRIBUTION EQUIPMENT INCLUDING PANELBOARDS, SWITCHBOARDS, MOTOR CONTROLLERS, TRANSFORMERS, DISCONNECT SWITCHES, PUSHBUTTON STATIONS, AND SIMILAR DEVICES.
- PROVIDE PERMANENT ATTACHMENT MAKING SURE TO AVOID EXPOSED SHARP EDGES.
- ALL ROOM NUMBERS SHALL REFERENCE FINAL OWNER APPROVED DESIGNATIONS.

5 TYP POWER DIST EQ NAMEPLATE DETAIL
NO SCALE

NOTES:
1. SIZE VIBRATION ISOLATION PADS TO ACCOMODATE RATED LOAD OF EQUIPMENT.
2. SECURELY ANCHOR TRANSFORMER TO PAD.
3. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR CLEARANCE FROM WALL TO ALLOW PROPER AIR CIRCULATION BEHIND TRANSFORMER.

4 TRANSFORMER (DRY-TYPE) - PAD MOUNT
NO SCALE

COLUMBUS COUNTY SCHOOLS

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09.24.2025
NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

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COLUMBUS COUNTY SCHOOLS PK-8
Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423
LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

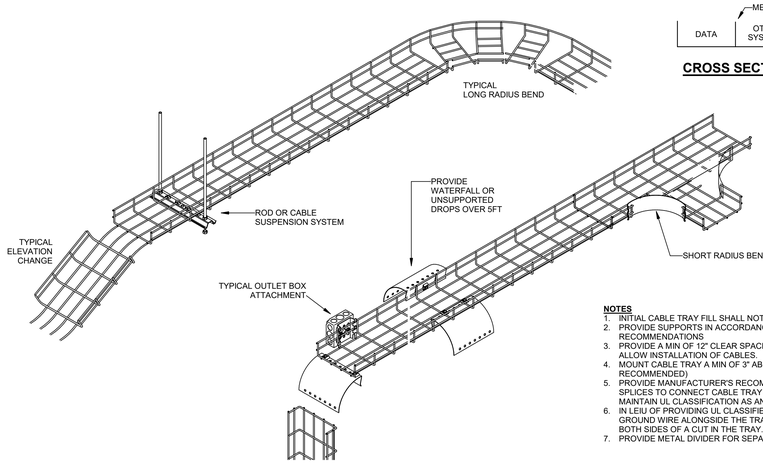
SHEET NAME:
ELECTRICAL DETAILS

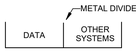
ORIG SUBMISSION: 2025.09.24

SHEET:
E803

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SHEETS



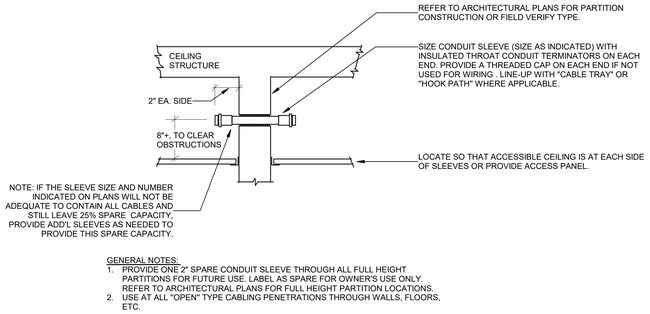


CROSS SECTION

NOTES
1. INITIAL CABLE TRAY FILL SHALL NOT EXCEED 25%.
2. PROVIDE SUPPORTS IN ACCORDANCE WITH NEMA VE2 AND MANUFACTURER'S RECOMMENDATIONS
3. PROVIDE A MIN OF 12" CLEAR SPACE ABOVE THE TOP OF THE CABLE TRAY TO ALLOW INSTALLATION OF CABLES.
4. MOUNT CABLE TRAY A MIN OF 3" ABOVE CEILING TILE AND GRID (6" RECOMMENDED)
5. PROVIDE MANUFACTURER'S RECOMMENDED QUANTITY OF UL CLASSIFIED SPLICES TO CONNECT CABLE TRAY SECTIONS AND FITTINGS IN ORDER TO MAINTAIN UL CLASSIFICATION AS AN EQUIPMENT GROUNDING CONDUCTOR.
6. IN LEIU OF PROVIDING UL CLASSIFIED SPLICES, RUN APPROPRIATELY SIZED GROUND WIRE ALONGSIDE THE TRAY AND ATTACH IT TO EACH TRAY SECTION ON BOTH SIDES OF A CUT IN THE TRAY.
7. PROVIDE METAL DIVIDER FOR SEPARATION OF LOW VOLTAGE CABLES.

4 WIRE BASKET CABLE TRAY DETAILS

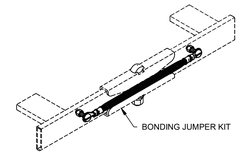
NO SCALE

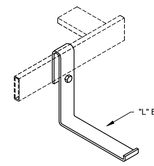


GENERAL NOTES:
1. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
2. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

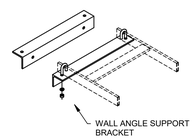
5 SYSTEMS CABLING SLEEVE INSTALLATION

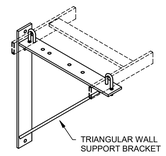
NO SCALE

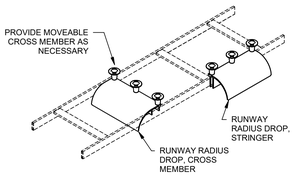


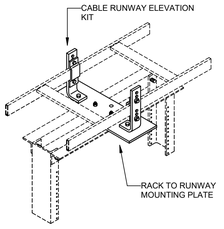


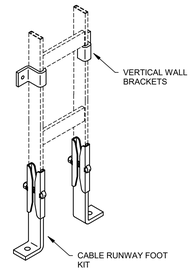
NOTES:
1. PROVIDE UNIVERSAL CABLE RUNWAY AND ALL REQUIRED ACCESSORIES.
2. SUPPORT ACCESSORIES AND HARDWARE ARE TO BE SUPPLIED AS COMPLETE KITS BY RUNWAY MANUFACTURER.
3. ALL DETAILS ON THIS DRAWING ARE DETAILS OF TYPICAL INSTALLATION AND MAY VARY. FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES.
4. PROVIDE RADIUS DROPS WHERE CABLING DROPS OR ENTERS THE RUNWAY
5. PROVIDE BONDING STRAP BETWEEN ALL SECTIONS
6. ROUTE POWER AND BONDING CONDUCTORS ON AUXILIARY 'L' BRACKET ATTACHED TO SIDE OF RUNWAY
7. ALL CABLES IN RUNWAY SHALL BE IN 24 CABLE BUNDLES WRAPPED WITH VELCRO HOOK AND LOOP CABLE TIES. ALL CABLES IN BUNDLE SHALL TERMINATE TO SAME PATCH PANEL.

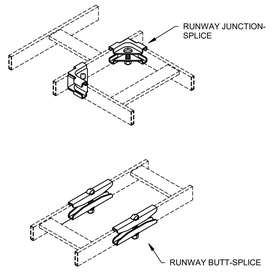






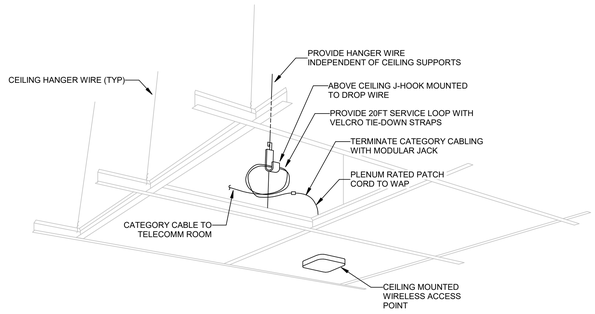






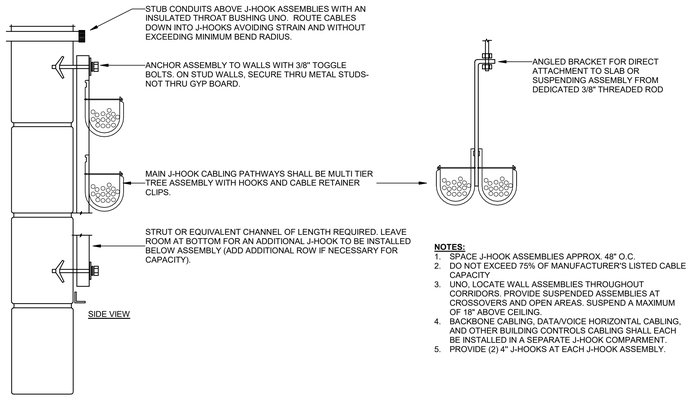
1 CABLE RUNWAY DETAILS

NO SCALE



2 WAP - CEILING MOUNTED

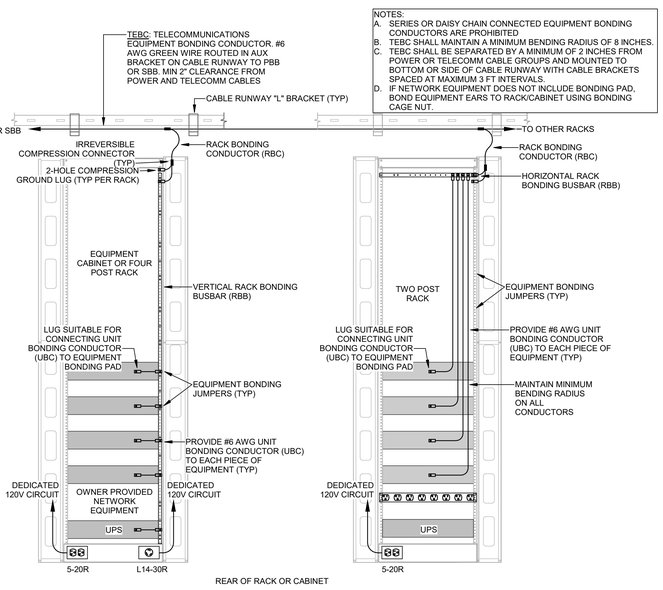
NO SCALE



NOTES:
1. SPACE J-HOOK ASSEMBLIES APPROX. 48" O.C.
2. DO NOT EXCEED 75% OF MANUFACTURER'S LISTED CABLE CAPACITY
3. UNO, LOCATE WALL ASSEMBLIES THROUGHOUT CORRIDORS. PROVIDE SUSPENDED ASSEMBLIES AT CROSSOVERS AND OPEN AREAS. SUSPEND A MAXIMUM OF 16" ABOVE CEILING.
4. BACKBONE CABLING, DATA/VOICE HORIZONTAL CABLING, AND OTHER BUILDING CONTROLS CABLING SHALL EACH BE INSTALLED IN A SEPARATE J-HOOK COMPARMENT.
5. PROVIDE (2) 4" J-HOOKS AT EACH J-HOOK ASSEMBLY.

3 J-HOOK INSTALLATION DETAIL

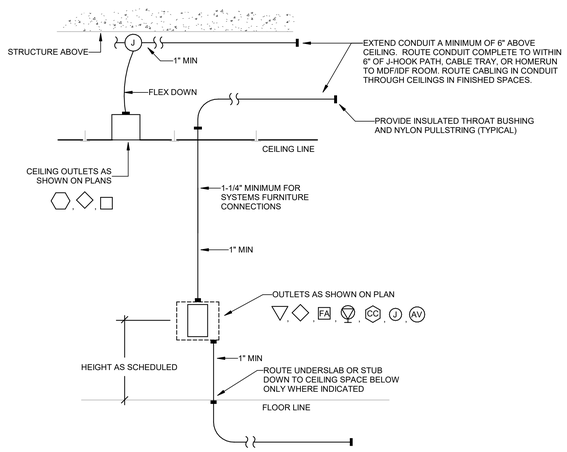
NO SCALE



NOTES:
A. SERIES OR DAISY CHAIN CONNECTED EQUIPMENT BONDING CONDUCTORS ARE PROHIBITED
B. TEBC SHALL MAINTAIN A MINIMUM BENDING RADIUS OF 8 INCHES.
C. TEBC SHALL BE SEPARATED BY A MINIMUM OF 2 INCHES FROM POWER OR TELECOMM CABLE GROUPS AND MOUNTED TO BOTTOM OR SIDE OF CABLE RUNWAY WITH CABLE BRACKETS SPACED AT MAXIMUM 3 FT INTERVALS.
D. IF NETWORK EQUIPMENT DOES NOT INCLUDE BONDING PAD, BOND EQUIPMENT EARS TO RACK/CABINET USING BONDING CAGE NUT.

7 RACK GROUNDING AND POWER DETAIL

NO SCALE: OWNER VENDOR TO PROVIDE CONNECTION ONCE EQUIPMENT IS INSTALLED



NOTES:
1. EXTEND CONDUIT TO NEAREST LOW VOLTAGE PATHWAY UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM.
2. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, CABLING AND HARDWARE SHALL BE LISTED FOR INSTALLATION IN SUCH LOCATIONS.
3. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT
4. INSTALL TELECOMMUNICATION AND TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.

6 TELECOMM OUTLET ROUGH-IN DETAIL

NO SCALE

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
TELECOMMUNICATIONS DETAILS

ORIG SUBMISSION: 2025.09.24

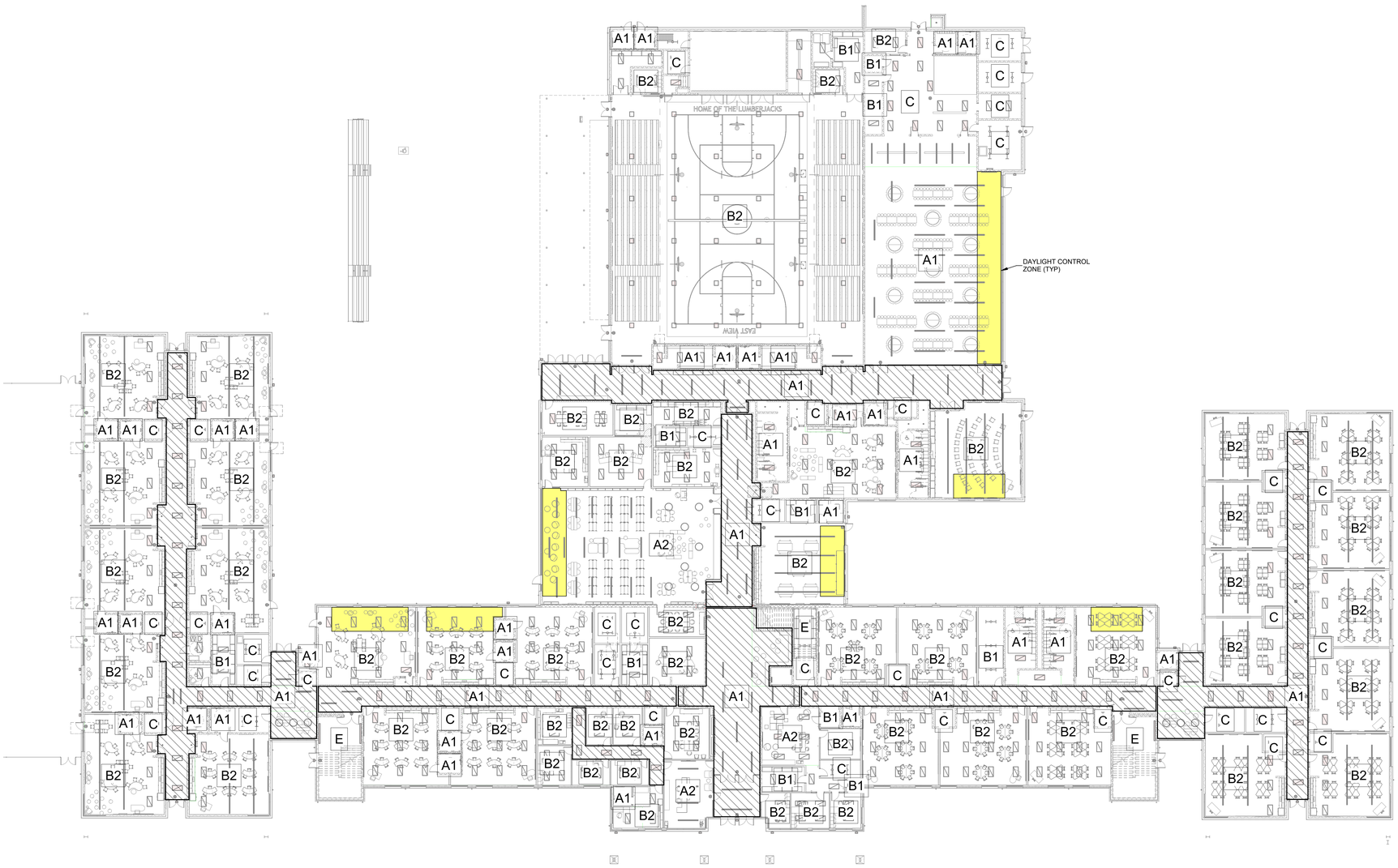
SHEET:
E804

ISSUE FOR PERMIT / BIDDING

E D C B A

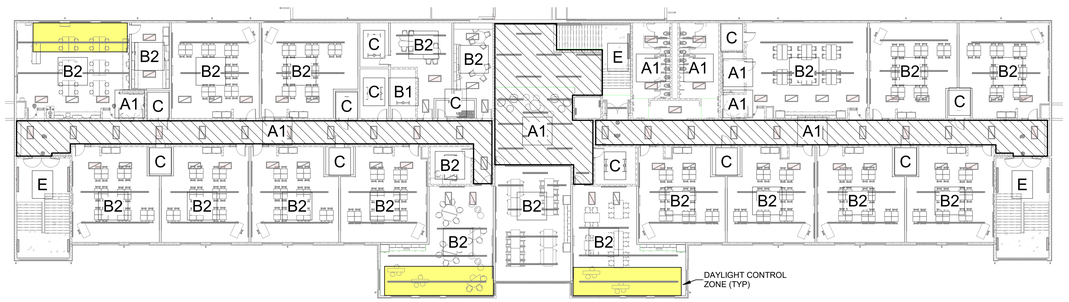
1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH E SHEETS ORIGINAL PLOT SIZE



1 LEVEL 1 - LIGHTING CONTROL ZONING PLAN

SCALE: 1" = 20'-0"

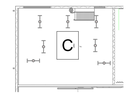


2 LEVEL 2 - LIGHTING CONTROL ZONING PLAN - SOUTH

SCALE: 1" = 20'-0"

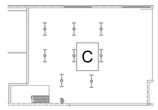
CONTROL ZONE LEGEND

- LOCAL OVERRIDE (REFER TO LIGHTING CONTROL SEQUENCES)
- NO PATTERN INDICATES LOCAL SWITCH AND/OR SENSOR CONTROL ONLY
- DAYLIGHT CONTROL ZONE
- X BOX WITH LETTER INDICATES CONTROL SEQUENCE



3 LEVEL 2 - LIGHTING CONTROL ZONING PLAN - NORTH

SCALE: 1" = 20'-0"



4 PLATFORM - LIGHTING CONTROL ZONING PLAN

SCALE: 1" = 20'-0"

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SHEET NAME:
LIGHTING CONTROL ZONING PLAN

ORIG SUBMISSION: 2025.09.24

SHEET:
E805

ISSUE FOR PERMIT / BIDDING

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON FULL SIZE SHEETS (SCALE: AS SEE NOTE)

SEQUENCE	CONTROL TYPE	DESCRIPTION	SEQUENCE OF OPERATION
A1	OCCUPANCY	AUTO ON AUTO OFF	ON: AUTO ON WHEN OCCUPANCY IS DETECTED OFF: MANUAL OVERIDE TO OFF VIA WALL SWITCH OFF: AUTOMATIC OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY
A2	OCCUPANCY W/ CONTINUOUS DIMMING	AUTO ON MANUAL ADJUST AUTO OFF	ON: AUTO ON WHEN OCCUPANCY IS DETECTED ADJUST: MANUAL ADJUSTMENT 0-100% VIA WALL SWITCH(ES) OFF: AUTOMATIC OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY
A3	OCCUPANCY W/ LOCAL OVERRIDE SWITCH	AUTO ON AUTO OFF	ON: AUTO ON WHEN OCCUPANCY IS DETECTED OFF: MANUAL OVERIDE TO OFF VIA WALL SWITCH OFF: AUTOMATIC OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY
B1	VACANCY	MANUAL ON TO 100% AUTO OFF	ON: MANUAL ON VIA WALL SWITCH OFF: MANUAL OVERIDE TO OFF VIA WALL SWITCH OFF: AUTO OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY
B2	VACANCY W/ CONTINUOUS DIMMING	MANUAL ON TO 100% CONTINUOUS DIMMING AUTO OFF	ON: MANUAL ON VIA WALL SWITCH(ES) ADJUST: 0-100% CONTROL VIA WALL SWITCH(ES) AT ROOM ENTRY OFF: AUTO OFF WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY
C	MANUAL	MANUAL ON MANUAL OFF	ON: MANUAL ON VIA WALL SWITCH OFF: MANUAL OFF VIA WALL SWITCH
D	PHOTOCELL	AUTO ON AUTO OFF	ON: AUTO ON TO 100% AT DUSK VIA PHOTOCELL OFF: AUTO OFF AT DAWN VIA PHOTOCELL
E	ALWAYS ON W/ OCCUPANCY SETBACK	ALWAYS ON TO 100% AUTO DIM TO 20%	ON: ALWAYS ON SETBACK: AUTO DIM TO 20% OUTPUT WHEN NO OCCUPANCY IS DETECTED DURING ADJUSTABLE TIME DELAY

	SENSOR				SCHEDULE			WALL SWITCH				OTHER			
	VACANCY	OCCUPANCY	SENSOR TIME DELAY PERIOD (MINUTES)	DUAL TECHNOLOGY	SCHEDULED ON AT	SCHEDULED OFF AT	SCHEDULE OVERRIDE SWITCH	BAS INTERFACE	ON/OFF	ON/OFF W/ CONT DIMMING	KEY SWITCH	EXTERIOR LOCATION	EXTERIOR PHOTOCELL		SEQUENCE
BUILDING EXTERIOR					DUSK	DAWN						X	X		D
CLASSROOM	X		10 MIN	X						X					B2
CAFETERIA		X	15 MIN	X						X					A1
KITCHEN									X						C
MEDIA CENTER	X		15 MIN	X						X					A2
PRIVATE OFFICE	X		10 MIN	X						X					B2
RECEPTION		X	20 MIN	X						X					A2
CONFERENCE	X		15 MIN	X						X					B2
MECH/ELECT/TELECOM									X						C
WORK ROOM	X		10 MIN	X						X					B2
STAIRWELL		X	15 MIN	X						X					E
RESTROOM - PRIVATE		X	15 MIN	X					X						A1
RESTROOM - GROUP		X	15 MIN	X							X				A1
STORAGE	X		10 MIN	X					X						B1
VESTIBULE		X	20 MIN	X							X				A1
CORRIDOR		X	20 MIN	X							X				A1
JANITORIAL CLOSET	X		10 MIN	X					X						B1
GYMNASIUM	X		20 MIN	X						X					B2
LOCKER ROOM		X	15 MIN	X					X						A1
SCIENCE/STEM LAB	X		20 MIN	X						X					B2
KILN ROOM		X	15 MIN	X					X						A1

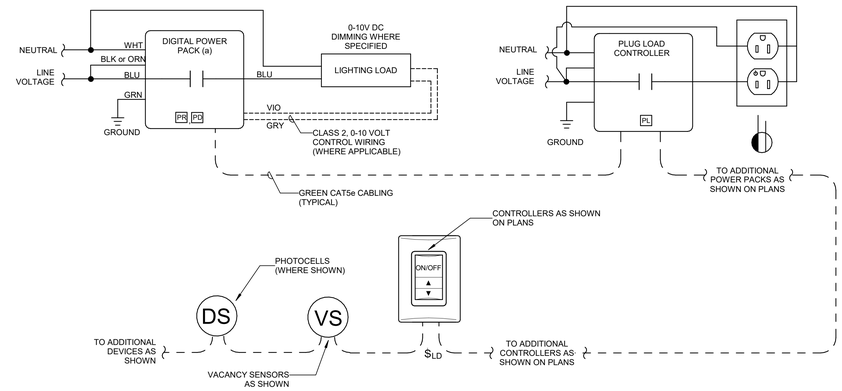
LIGHTING CONTROL DEVICE SCHEDULE

SYMBOL	MODIFIER	DESCRIPTION	VOLTAGE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALTERNATE MANUFACTURER
$	L	LOW VOLTAGE ON/OFF WALL SWITCH, SINGLE ZONE	24 V	SENSOR SWITCH	SPODM	WATTSTOPPER HUBBELL
$	LD	LOW VOLTAGE ON/OFF WALL SWITCH, SINGLE ZONE, RAISE/LOWER FOR CONTINUOUS DIMMING	<varies>	SENSOR SWITCH	SPODM-D-SA	WATTSTOPPER HUBBELL
$	LDP	DIGITAL WALL SWITCH, ON/OFF, RAISE/LOWER, AND 2 PRESET SCENE CONTROL	24 V	nLIGHT	nPODMA-2S-DX	WATTSTOPPER HUBBELL
$	LK	LOW VOLTAGE ON/OFF WALL SWITCH, SINGLE ZONE, KEYED, MOMENTARY	<varies>	SENSOR SWITCH	SPOD-KEY	WATTSTOPPER HUBBELL
$	LM	LOW VOLTAGE ON/OFF WALL SWITCH, SINGLE ZONE, MULTI-WAY	24 V	SENSOR SWITCH	SPODM-3X	WATTSTOPPER HUBBELL
$	LMD	LOW VOLTAGE ON/OFF WALL SWITCH, SINGLE ZONE, RAISE/LOWER FOR CONTINUOUS DIMMING, MULTI-WAY	24 V	SENSOR SWITCH	SPODM-D-SA-3X	WATTSTOPPER HUBBELL
$	LVSD	LOW VOLTAGE WALL SWITCH DUAL TECHNOLOGY SENSOR, DIMMING, SINGLE POLE, VACANCY MODE	24 V	nLIGHT	nWSX-PDT-LV-DX	WATTSTOPPER HUBBELL
$	OS	WALL SWITCH DUAL TECHNOLOGY SENSOR, SINGLE POLE	277 V	SENSOR SWITCH	WSX-PDT	WATTSTOPPER HUBBELL
$	VS	WALL SWITCH DUAL TECHNOLOGY SENSOR, SINGLE POLE, VACANCY MODE	277 V	SENSOR SWITCH	WSX-PDT-SA	WATTSTOPPER HUBBELL
DS	LW	LOW VOLTAGE CEILING MOUNT SENSOR, PIR, HALLWAY COVERAGE PATTERN, OCCUPANCY MODE	24 V	SENSOR SWITCH	CM-11	WATTSTOPPER HUBBELL
DS	LX	LOW VOLTAGE CEILING MOUNT SENSOR, DUAL TECHNOLOGY, EXTENDED RANGE, 360 DEG COVERAGE, OCCUPANCY MODE	24 V	SENSOR SWITCH	CM-PDT-10	WATTSTOPPER HUBBELL
VS	L	LOW VOLTAGE CEILING MOUNT SENSOR, DUAL TECHNOLOGY, STANDARD RANGE, 360 DEG COVERAGE, VACANCY MODE	24 V	SENSOR SWITCH	CM-PDT-9	WATTSTOPPER HUBBELL
VS	LC	LOW VOLTAGE CORNER MOUNT SENSOR, DUAL TECHNOLOGY, STANDARD RANGE, 120DEG COVERAGE, VACANCY MODE	277 V	SENSOR SWITCH	WV-PDT16	WATTSTOPPER HUBBELL
VS	LHB	LOW VOLTAGE CEILING MOUNT SENSOR, HIGH BAY MOUNT, DUAL TECHNOLOGY, STANDARD RANGE, 360 DEG COVERAGE, VACANCY MODE	24 V	SENSOR SWITCH	CM-6	WATTSTOPPER HUBBELL
VS	LX	LOW VOLTAGE CEILING MOUNT SENSOR, DUAL TECHNOLOGY, EXTENDED RANGE, 360 DEG COVERAGE, VACANCY MODE	277 V	SENSOR SWITCH	CM-PDT-10	WATTSTOPPER HUBBELL
PD		DIGITAL POWER PACK RELAY, ON/OFF, SINGLE ZONE, WITH 0-10V DIMMING	277 V	nLIGHT	nPP16-D	WATTSTOPPER HUBBELL
PR		POWER PACK RELAY, ON/OFF, SINGLE ZONE	277 V	SENSOR SWITCH	PP20	WATTSTOPPER HUBBELL
DS		LOW VOLTAGE CEILING MOUNT DAYLIGHT SENSOR, DUAL ZONE, AUTOMATIC DIMMING CONTROL	24 V	SENSOR SWITCH	nCM-ADCX-DZ	WATTSTOPPER HUBBELL

NOTES:
1. PROVIDE EACH LUMINAIRE WITH (2) STEEL WIRE SUPPORTS AT OPPOSITE CORNERS AND SECURE TO STRUCTURE. SECURE LUMINAIRE TO MAIN RUNNERS OF CEILING GRID AT ALL (4) CORNERS WITH MACHINE SCREWS OR APPROVED MECHANICAL FASTENERS.
2. LUMINAIRE SUPPORTS MUST BE INDEPENDENT OF ANY CEILING OR OTHER BUILDING SYSTEM SUPPORTS.

1 LUMINAIRE SUPPORT DETAIL

NO SCALE



2 LIGHTING CONTROL WIRING WITH PLUG LOAD CONTROL

NO SCALE

COLUMBUS COUNTY SCHOOLS

COLUMBUS COUNTY SCHOOLS

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
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CMTA
A LEGENCE Company
10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

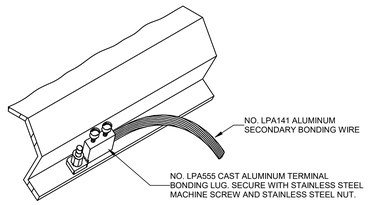
SHEET NAME:
LIGHTING DETAILS

ORIG SUBMISSION: 2025.09.24

SHEET:
E806

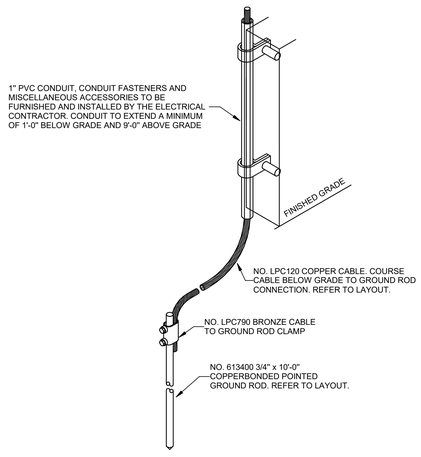
ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE



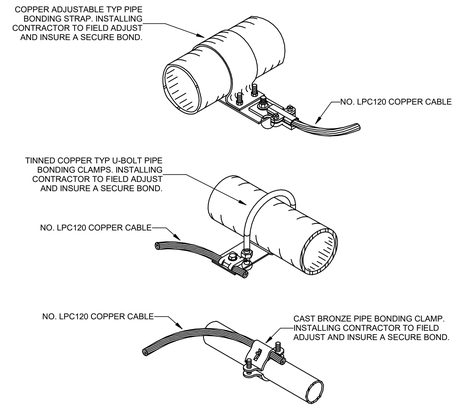
8 FLASHING / GUTTER BOND

SCALE: 3" = 1'-0"



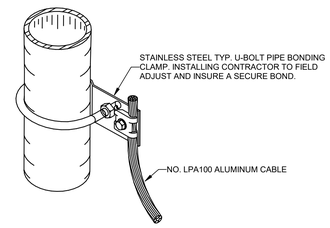
9 CONCEALED GROUNDING CONNECTION

SCALE: 3" = 1'-0"



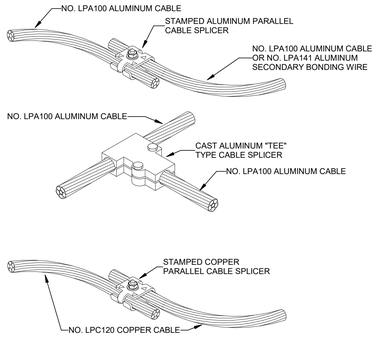
4 PIPE BONDING CLAMP

SCALE: 3" = 1'-0"



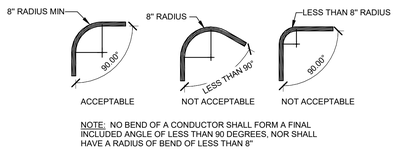
5 ROOF PIPE BONDING CLAMP

SCALE: 3" = 1'-0"



6 CABLE SPLICERS

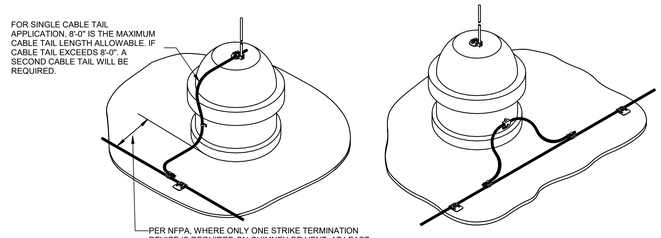
SCALE: 3" = 1'-0"

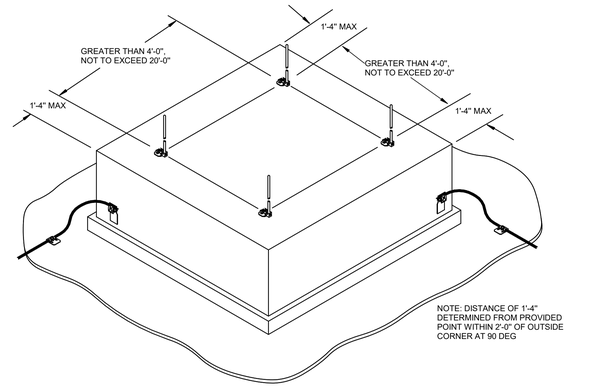


NOTE: NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES, NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8"

7 CABLE BEND REQUIREMENTS

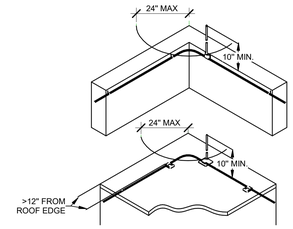
SCALE: 12" = 1'-0"





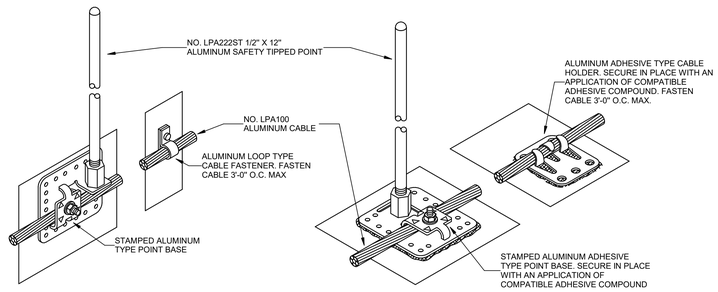
1 CABLE ROUTING DETAIL

SCALE: 3" = 1'-0"



2 TYPICAL OUTSIDE CORNER AIR TERMINAL PLACEMENT

SCALE: 12" = 1'-0"



3 ROOF AIR TERMINAL DETAIL

SCALE: 3" = 1'-0"

COLUMBUS COUNTY SCHOOLS

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LS3P

101 NORTH THIRD STREET, SUITE 500
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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
LIGHTNING PROTECTION DETAILS

ORIG SUBMISSION: 2025.09.24

SHEET:
E807

ISSUE FOR PERMIT / BIDDING

E
D
C
B
A

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SHEETS

PANELBOARD AND WIRING SCHEDULE

NAME: LR1A | BUS RATING: 225 A | SPD: No | FEED THRU LUGS: No
FED FROM: LD1A | VOLTAGE: 208Y/120V,3Ø,4W | MIN. SCCR (kA): 14 | MULTI-SECTION: Yes
MOUNTING: SURFACE | MAINS TYPE: MLO | AVAIL FAULT (kA): 10.2

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - COORIDOR A100					20	1	1	1.3 0.5			2	1	20					WATER FOUNT - A100
WATER FOUNTAIN - A100					20	1	3		0.5 0.5		4	1	20					WATER FOUNT - A100
WATER FOUNTAIN - A100					20	1	5			0.5 0.7	6	1	20					REC - GYMNASIUM A101-103
BLEACHER REC - GYM A103					20	1	7	0.2 0.2			8	1	20					BLEACHER REC - GYM A103
MOTORIZED BLEACHER - GYM A103		#10	#10	3/4"	30	3	9		0.2 0.2		10							MOTORIZED BLEACHER - GYM A103
							11			0.2 0.2	12	3	30	3/4"	#10	#10		
							13	0.2 0.2			14							
GYM DIVIDER - GYM A103					20	1	15		0.8 1.5		16	1	20					SCOREBOARD - GYM A103
REC - STAGE A104					20	1	17			1.0 0.9	18	1	20					REC - RM S-A2, TLT A114-115
REC - PE OFFICE A117					20	1	19	0.9 0.5			20	1	20					PROJ. SCREEN - GYM A103
REC - PE OFFICE A116					20	1	21		0.9 1.0		22	1	20					PROJECTORS - GYM A103
REC - CHANGING RM A105-106					20	1	23			0.7 1.0	24	1	20					MOTORIZED GOAL - GYM A103
MOTORIZED GOAL - GYM A103					20	1	25	1.0 1.0			26	1	20					MOTORIZED GOAL - GYM A103
MOTORIZED GOAL - GYM A103					20	1	27		1.0 1.0		28	1	20					MOTORIZED GOAL - GYM A103
MOTORIZED GOAL - GYM A103					20	1	29			1.0 1.0	30	1	20					MOTORIZED GOAL - GYM A103
MOTORIZED GOAL - GYM A103					20	1	31	1.0 0.7			32	1	20					REC - ELEC E-A1, MPA1, FPA1
REC - EQUIP. STORAGE S-A3					20	1	33		0.7 0.9		34	1	20					REC - KITCH. OFFICE A108
REC - DINING A107					20	1	35			1.1 0.5	36	1	20					REC - RM A113, A112, A111
REC - EXTERIOR A NORTH					20	1	37	0.9 0.5			38	1	20					REC - EXTERIOR A WEST
							39		0.7 0.7		40	1	20					REC - IDF-A
UPS - IDF-A		#10	#10	3/4"	30	3	41			0.7 0.7	42	1	20					REC - IDF-A
							43	0.7 1.1			44	1	20					REC - IDF-A
NAC PANEL - IDF-A					20	1	45		0.5 0.7		46	1	20					REC - MECH MEZZANINE A201
HVAC - AC/CU-12 - IDF-A		#10	#10	3/4"	30	2	47			1.1 2.0	48							
							49	1.1 2.0			50	2	30	3/4"	#10	#10		HVAC - AC/CU-24 - ELEC E-A1
EXT REC - ATHLETIC CORR					20	1	51		0.4 0.2		52	1	20					VAV BOXES - AREA A
VAV BOXES - GYM					20	1	53			0.2 1.1	54	1	20					REC - STAGE A104
REC - ROOF MAINTENANCE					20	1	55	0.2 0.2			56	1	20					REC - SITE GEO VAULT
GEO SUMP PUMP - SITE					20	1	57		1.2 0.5		58	1	20					SITE PIV ENCLOSURE HEATER
SITE PIV ENCLOSURE HEATER					20	1	59			0.5 0.5	60	1	20					SITE PIV ENCLOSURE HEATER
SPRINKLER RISER BELL -...					20	1	61	0.1 1.2			62							
WASHER - LAUNDRY A118	1	#12	#12	3/4"	15	2	63		0.8 1.2		64	2	15	3/4"	#12	#12	1	DRYER - LAUNDRY A118
							65			0.8 0.5	66	1	20					GYM SOUND SYST - AS1
DINING SOUND SYST- A107					20	1	67	0.2 0.0			68	1	20	--	--	--		SPARE
DINING SOUND SYST- A107					20	1	69		0.2 0.0		70	1	20	--	--	--		SPARE
GYM SOUND SYST - A-S1					20	1	71			0.5 0.6	72	1	20					GYM STAGE LTG SYST
GYM LTG SYST - AS1					20	1	73	0.2 0.5			74	1	20					BAS PANEL - MECH MEZZ A201
GYM LTG SYST - AS1					20	1	75		0.2 0.2		76	1	20					BAS PANEL - MECH MP-A1
BAS PANEL - MECH MEZZ A201					20	1	77			0.5 0.5	78	1	20					DP-1 - RISER RM FP-A1
DP-2 - RISER RM FP-A1					20	1	79	0.5 0.5			80	1	20					DP-3 - RISER RM FP-A1
SPARE		--	--	--	20	1	81		0.0 0.0		82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83			0.0 0.0	84	1	20	--	--	--		SPARE
				TOTAL LOAD (kVA):				17.5 kVA	16.6 kVA	18.9 kVA								
				TOTAL CURRENT (A):				147 A	138 A	159 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	26376 VA	100.00%	26376 VA	TOTAL CONNECTED LOAD:	53 kVA
HVAC	6590 VA	100.00%	6590 VA	TOTAL ESTIMATED DEMAND:	48 kVA
LTNG	360 VA	125.00%	450 VA	TOTAL CONNECTED CURRENT:	147 A
REC	19740 VA	75.33%	14870 VA	TOTAL ESTIMATED DEMAND CURRENT:	134 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: LK | BUS RATING: 400 A | SPD: No | FEED THRU LUGS: No
FED FROM: LD1A | VOLTAGE: 208Y/120V,3Ø,4W | MIN. SCCR (kA): 14 | MULTI-SECTION: Yes
MOUNTING: FLUSH | MAINS TYPE: MCB | AVAIL FAULT (kA): 10.2

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
UPS CONTROL/ SOLENOID	2				20	1	1	0.5 0.4			2	1	20					REC - JAN/ DRY STORAGE
REC - MILK COOLER K420	2				20	1	3		0.4 3.7		4	1	40	3/4"	#10	#8	2	REC - HOT FOOD TABLE K419
REC - SWITCH COUNTER K418	2				20	1	5			1.3 0.6	6	1	20				2	REC - POS K414
REC - POS K414	2				20	1	7	0.6 1.3			8	1	20				2	REC - SWITCH COUNTER K411
REC - HOT FOOD TABLE K410	2	#8	#10	3/4"	40	1	9		3.7 0.4		10	1	20				2	REC - MILK COOLER K408
REC - SERVERY A107A					20	1	11			0.5 1.6	12	2	20				2	REC - PASS-THRU HOLDING CABINET K401
REC - PASS THRU FRIDGE K402	2				20	2	13	0.5 1.6			14							
							15		0.5 0.5		16	2	20				2	REC - PASS THRU FRIDGE K402
REC - PASS-THRU HOLDING CABINET K401	2				20	2	17			1.6 0.5	18							
							19	1.6 0.7			20	1	20					REC - KITCHEN A109
REC - CVAP HOLD UNIT K304	2				20	1	21		2.3 0.7		22	1	20					REC- FOOD PROCESSOR K321
REC - ISLAND KITCHEN A109					20	1	23			0.4 0.4	24	1	20					REC - WASH STATION A110
KITCH - ICE MAKER K313	2				20	2	25	1.3 2.3			26	1	20				2	REC - CVAP HOLD UNIT K309
							27		1.3 2.4		28	1	20				2	EQUIP - EXHUAST HOOD K20.2
EQUIP - EXHUAST HOOD K20.1	2				20	1	29			2.4 1.8	30	1	20				2	EQUIP - COOLER LTG K10.1
EQUIP - FREEZER LTG K10.2	2				20	1	31	1.8 0.1			32							
EQUIP - FREEZER EVAP COIL K10.4	2				20	2	33		1.0 0.1		34	2	20				2	EQUIP - COOLER EVAP COIL K10.3
							35			1.0 2.4	36							
EQUIP - COOLER COND. UNIT K10.5	2				20	3	37	1.8 2.4			38	3	20				2	EQUIP - FREEZER COND. UNIT K10.6
							39		1.8 2.4		40							
							41			1.8 0.2	42	1	20					EXT REC -CONENSING UNITS
EXT KITCHEN DOOR BELL	2				20	1	43	0.5 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
SPARE		--	--	--	20	1	55	0.0 0.0			56	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	57		0.0 0.0		58	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	59			0.0 0.0	60	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	61	0.0 0.0			62	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	63		0.0 0.0		64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65			0.0 0.0	66	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	67	0.0 0.0			68	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	69		0.0 0.0		70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71			0.0 0.0	72	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	73	0.0 0.0			74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75		0.0 0.0		76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77			0.0 0.0	78	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	79	0.0 0.0			80	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	81		0.0 0.0		82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83			0.0 0.0	84	1	20	--	--	--		SPARE
				TOTAL LOAD (kVA):				17.3 kVA	21.2 kVA	16.4 kVA								
				TOTAL CURRENT (A):				146 A	178 A	137 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	45216 VA	100.00%	45216 VA	TOTAL CONNECTED LOAD:	55 kVA
KITCH	2600 VA	100.00%	2600 VA	TOTAL ESTIMATED DEMAND:	55 kVA
REC	7120 VA	100.00%	7120 VA	TOTAL CONNECTED CURRENT:	152 A
				TOTAL ESTIMATED DEMAND CURRENT:	152 A

NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.
1. PROVIDE PANELBOARD WITH STAINLESS STEEL COVER.
2. PROVIDE GFCI-TYPE CIRCUIT BREAKER.

PANELBOARD AND WIRING SCHEDULE

NAME: HM1A | BUS RATING: 400 A | SPD: No | FEED THRU LUGS: No
FED FROM: HD1A | VOLTAGE: 480Y/277V,3Ø,4W | MIN. SCCR (kA): 65 | MULTI-SECTION: No
MOUNTING: SURFACE | MAINS TYPE: MLO | AVAIL FAULT (kA): 39.1

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
VHP-150 - A201		#10	#10	3/4"	35	3	1	6.0 2.8			2	1	20					VHP-18 - A201
							3		6.0 2.8		4	1	20					VHP-18 - A201
							5			6.0 3.9	6							
GWP-1 - MECH PUMP MP-A1		#8	#10	1"	45	3	7	7.5 3.9			8	3	25	3/4"	#10	#12		VHP-96 - A201
							9		7.5 3.9		10							
							11			7.5 3.9	12							
GWP-2 - MECH PUMP MP-A1		#8	#10	1"	45	3	13	7.5 3.9			14	3	25	3/4"	#10	#12		VHP-96 - A201
							15		7.5 3.9		16							
							17			7.5 7.5	18							
EUH-1 - MECH PUMP MP-A1					20	2	19	1.5 7.5			20	3	45	1"	#10	#8		GWP-3 - MECH PUMP MP-A1
							21		1.5 7.5		22							
							23			1.3 2.8	24							
KEF-1					20	3	25	1.3 2.8			26	3	20					VHP-48 - MECH PUMP MP-A1
							27		1.3 2.8		28							
							29			2.3 2.3	30							
VFD P-2A					20	3	31	2.3 2.3			32	3	20					VFD P-2B
							33		2.3 2.3		34							
							35			1.5 1.5	36							
EUH-1 - RECEIVING A111					20	2	37	1.5 1.5			38	2	20					EUH-1 - RISER FP-A1
							39		0.6 6.8		40							
							41			0.6 6.8	42	3	40	1"	#10	#8		DWHP-1 - RISER RM FP-A1
FF-1 - RECEIVING A111					20	3	43	0.6 6.8			44							
							45		2.7 0.0		46							
DWBP-1 - RISER RM FP-A1					20	3	47			2.7 0.0	48	3	30	--	--	--		SPARE
							49	2.7 0.0			50							
							51		0.0 0.0		52							
SPARE		--	--	--	30	3	53			0.0 0.0	54	3	30	--	--	--		SPARE
							55	0.0 0.0			56							
							57		0.0 0.0		58							
SPARE		--	--	--	60	3	59			0.0 0.0	60	3	60	--	--	--		SPARE
							61	0.0 0.0			62							
SPARE		--	--	--	20	1	63		0.0 0.0		64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65			0.0 0.0	66	1	20	--	--	--		SPARE
				TOTAL LOAD (kVA):				62.2 kVA	59.2 kVA	57.9 kVA								
				TOTAL CURRENT (A):				225 A	214 A	209 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	62992 VA	100.00%	62992 VA	TOTAL CONNECTED LOAD:	179 kVA
HVAC	86990 VA	100.00%	86990 VA	TOTAL ESTIMATED DEMAND:	179 kVA
SPACE HEATING	9000 VA	100.00%	9000 VA	TOTAL CONNECTED CURRENT:	216 A
WATER HEATING	20262 VA	100.00%	20262 VA	TOTAL ESTIMATED DEMAND CURRENT:	216 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HL1A | BUS RATING: 125 A | SPD: No | FEED THRU LUGS: No
FED FROM: HD1A | VOLTAGE: 480Y/277V,3Ø,4W | MIN. SCCR (kA): 35 | MULTI-SECTION: No
MOUNTING: SURFACE | MAINS TYPE: MLO | AVAIL FAULT (kA): 25.4

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
LTNG - AREA A CORR, RR, IDF					20	1	1	1.4 0.1			2	1	20					LTNG - EXT A EAST
LTNG - EXT A WEST					20	1	3		0.1 4.7		4	1	20					LTNG - GYM A103, 105, 106
LTNG - STAGE A104, OFFICES					20	1	5			1.2 1.3	6	1	20					LTNG - DINING A107, A107A
LTNG - KITCH, MEP, OFFICE					20	1	7	1.2 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
				TOTAL LOAD (kVA):				2.7 kVA	4.8 kVA	2.6 kVA								
				TOTAL CURRENT (A):				10 A	18 A	9 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	10169 VA	125.00%	12711 VA	TOTAL CONNECTED LOAD:	10 kVA
				TOTAL ESTIMATED DEMAND:	13 kVA
				TOTAL CONNECTED CURRENT:	12 A
				TOTAL ESTIMATED DEMAND CURRENT:	15 A

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

SWITCHBOARD AND WIRING SCHEDULE

NAME: MDP | BUS RATING: 2500 A | SPD: Yes
FED FROM: UTIL XFMR | VOLTAGE: 480Y/277V,3Ø,4W | MIN. SCCR (kA): 65
MOUNTING PAD | MAINS TYPE: MCB | AVAIL FAULT (kA): 50

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	OCP	POLES	LOAD	NOTES
1	HD1A	2	(4)500KCMIL	#1/0	3"	800 A	3	533.7	
2	HD1B	2	(4)300KCMIL	#1/0	2-1/2"	400 A	3	102.8	
3	HD1C	1	(4)500KCMIL	#3	3"	400 A	3	208.1	
4	HD1D	2	(4)300KCMIL	#1/0	2-1/2"	400 A	3	97.4	
5	HD2C1	2	(4)350KCMIL	#2/0	3"	600 A	3	293.4	
6	HD2C2	1	(4)350KCMIL	#1	3"	250 A	3	59.0	
7	T-LD1A	1	(3)300KCMIL	#3	2-1/2"	350 A	3	119.1	
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	501546 VA	100.00%	501546 VA	TOTAL CONNECTED LOAD:	1413 kVA
HVAC	506978 VA	100.00%	506978 VA	TOTAL ESTIMATED DEMAND:	1280 kVA
KITCH	2600 VA	100.00%	2600 VA	TOTAL CONNECTED CURRENT:	1700 A
LTNG	50813 VA	125.00%	63516 VA	TOTAL ESTIMATED DEMAND CURRENT:	1539 A
REC	302920 VA	51.65%	156460 VA		
SPACE HEATING	15000 VA	100.00%	15000 VA		
WATER HEATING	20262 VA	100.00%	20262 VA		
REFRIGERATION	1700 VA	100.00%	1700 VA		
ELEV	11600 VA	100.00%	11600 VA		

NOTES:

DISTRIBUTION PANELBOARD AND WIRING SCHEDULE

NAME: HD1A | BUS RATING: 800 A | SPD: No
FED FROM: MDP | VOLTAGE: 480Y/277V,3Ø,4W | MIN. SCCR (kA): 65
MOUNTING: SURFACE | MAINS TYPE: MCB | AVAIL FAULT (kA): 45.2

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	OCP	POLES	LOAD	NOTES
1	UDS - KITCHEN	1	(4)350KCMIL	#4	3"	300 A	3	149.2	
2	HM1A	1	(4)250KCMIL	#4	2-1/2"	300 A	3	179.2	
3	HL1A	1	(4)#6	#10	1"	60 A	3	10.2	
4	DOAS SF-2	1	(4)#10	#10	3/4"	35 A	3	17.9	
5	DOAS EF-2	1	(4)#10	#10	3/4"	25 A	3	12.1	
6	MAU-1	1	(4)#1	#6	2"	125 A	3	78.0	
7	HPC-2	1	(4)#3/0	#6	1-1/4"	200 A	3	87.0	
8	SPARE	--	--	--	--	60 A	3	0.0	
9	SPARE	--	--	--	--	30 A	3	0.0	
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	217018 VA	100.00%	217018 VA	TOTAL CONNECTED LOAD:	534 kVA
HVAC	194051 VA	100.00%	194051 VA	TOTAL ESTIMATED DEMAND:	511 kVA
LTNG	10169 VA	125.00%	12711 VA	TOTAL CONNECTED CURRENT:	642 A
REC	83200 VA	56.01%	46600 VA	TOTAL ESTIMATED DEMAND CURRENT:	601 A
SPACE HEATING	9000 VA	100.00%	9000 VA		
WATER HEATING	20262 VA	100.00%	20262 VA		

NOTES:

DISTRIBUTION PANELBOARD AND WIRING SCHEDULE

NAME: LD1A | BUS RATING: 600 A | SPD: No
FED FROM: T-LD1A | VOLTAGE: 208Y/120V,3Ø,4W | MIN. SCCR (kA): 14
MOUNTING: SURFACE | MAINS TYPE: MCB | AVAIL FAULT (kA): 11

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	OCP	POLES	LOAD	NOTES
1	LK	1	(4)250KCMIL	#4	2-1/2"	300 A	3	54.9	
2	LR1A	1	(4)#4/0	#4	2-1/2"	225 A	3	53.1	
3	PUMP STATION GDS/MTS	1	(4)#2	#4	1-1/4"	60 A	3	11.1	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	82492 VA	100.00%	82492 VA	TOTAL CONNECTED LOAD:	119 kVA
HVAC	6590 VA	100.00%	6590 VA	TOTAL ESTIMATED DEMAND:	111 kVA
KITCH	2600 VA	100.00%	2600 VA	TOTAL CONNECTED CURRENT:	331 A
LTNG	360 VA	125.00%	450 VA	TOTAL ESTIMATED DEMAND CURRENT:	307 A
REC	27040 VA	68.49%	18520 VA		

NOTES:

COLUMBUS COUNTY SCHOOLS

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.9901 FAX. 910.790.3111
WWW.LS3P.COM

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A LEGENCE Company
10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025
NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

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COLUMBUS COUNTY SCHOOLS PK-8
Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME: PANEL SCHEDULES - AREA A

ORIG SUBMISSION: 2025.09.24

SHEET: E901

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SETS. DO NOT SCALE PLOT SETS.

PANELBOARD AND WIRING SCHEDULE

NAME: LR1B1 | **BUS RATING:** 225 A | **SPD:** No | **FEED THRU LUGS:** No
FED FROM: T-LR1B | **VOLTAGE:** 208Y/120V,3Ø,4W | **MIN. SCCR (kA):** 10 | **MULTI-SECTION:** Yes
MOUNTING: SURFACE | **MAINS TYPE:** MCB | **AVAIL FAULT (kA):** 5.5

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - CLASSRM B103					20	1	1	0.9	0.9		2	1	20					REC - CLASSRM B103
REC - CLASSRM B104					20	1	3		0.9	0.9	4	1	20					REC - CLASSRM B104
REC - CLASSRM B107					20	1	5			1.1	6	1	20					REC - CLASSRM B107
REC - CLASSRM B108					20	1	7	1.1	1.1		8	1	20					REC - CLASSRM B108
REC - CLASSRM B110					20	1	9		1.1	1.1	10	1	20					REC - CLASSRM B110
REC - CLASSRM B109					20	1	11			1.1	12	1	20					REC - CLASSRM B109
REC - CLASSRM B113					20	1	13	1.1	1.1		14	1	20					REC - CLASSRM B113
REC - CLASSRM B115					20	1	15		1.1	1.1	16	1	20					REC - CLASSRM B115
REC - CLASSRM B116					20	1	17			1.1	18	1	20					REC - CLASSRM B116
REC - CLASSRM B121					20	1	19	1.1	0.9		20	1	20					REC - CLASSRM B121
REC - CLASSRM B120					20	1	21		1.1	1.1	22	1	20					REC - CLASSRM B120
REC - CLASSRM B122					20	1	23			1.1	24	1	20					REC - CLASSRM B122
REC - CLASSRM B123					20	1	25	1.1	1.1		26	1	20					REC - CLASSRM B123
WATER FOUNT - AREA B					20	1	27		0.5	0.5	28	1	20					WATER FOUNT - AREA B
REC - CORR B101, MECH RMS					20	1	29			1.1	30	1	20					REC - AREA C WEST
REC - CORR B101, J-B1, MECH					20	1	31	0.7	1.4		32	1	20					REC - CORR B101, MECH RMS
REC - EXT AREA B SOUTH					20	1	33		0.7	0.9	34	1	20					REC - EXT AREA B NORTH
WASHER - JAN WASH J-B1	1				20	1	35			1.5	36	2	30	3/4"	#10	#10	1	DRYER - JAN WASH J-B1
							37	0.7	2.5		38							
UPS - IDF-B		#10	3/4"		30	3	39		0.7	0.7	40	1	20					REC - IDF-B
							41			0.7	42	1	20					REC - IDF-B
REC - IDF-B					20	1	43	0.7	0.5		44	1	20					NAC PANEL - IDF-B
REC - WELLNESS B127					20	1	45		0.4	0.8	46	1	20					FRIDGE - WELLNESS B127
REC - MECHISTOR B114					20	1	47			0.7	1.1	48	2	30	3/4"	#10	#10	HVAC - AC/CU-12 - IDF-B
VAV BOXES - AREA B					20	1	49	0.2	1.1		50							
VAV BOXES - AREA B					20	1	51		0.2	0.2	52	1	20					VAV BOXES - AREA C WEST
EF-2 - ELEC E-B1					20	1	53			0.5	0.0	54	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	55	0.0	0.0		56	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	57		0.0	0.0	58	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	59			0.0	0.0	60	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	61	0.0	0.0		62	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	63		0.0	0.0	64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65			0.0	0.0	66	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	67	0.0	0.0		68	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	69		0.0	0.0	70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71			0.0	0.0	72	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	73	0.0	0.0		74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75		0.0	0.0	76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77			0.0	0.0	78	1	20	--	--	--	SPARE
SPARE		--	--	--	20	1	79	0.0	0.0		80	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	81		0.0	0.0	82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83			0.0	0.0	84	1	20	--	--	--	SPARE
				TOTAL LOAD (kVA):				18.1 kVA	13.8 kVA	18.9 kVA								
				TOTAL CURRENT (A):				156 A	115 A	163 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	8500 VA	100.00%	8500 VA	TOTAL CONNECTED LOAD:	51 kVA
HVAC	3290 VA	100.00%	3290 VA	TOTAL ESTIMATED DEMAND:	36 kVA
REC	39020 VA	62.81%	24510 VA	TOTAL CONNECTED CURRENT:	141 A
				TOTAL ESTIMATED DEMAND CURRENT:	101 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HD1B | **BUS RATING:** 400 A | **SPD:** No | **FEED THRU LUGS:** No
FED FROM: MDP | **VOLTAGE:** 480Y/277V,3Ø,4W | **MIN. SCCR (kA):** 18 | **MULTI-SECTION:** No
MOUNTING: SURFACE | **MAINS TYPE:** MCB | **AVAIL FAULT (kA):** 11.7

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
							1	18.1	16.8		2							
T-LR1B		(3)#1	#6	1-1/4"	125	3	3			13.8	15.5		4	3	100	1-1/4"	#8	(4)#2 HM1B
							5					18.9	12.3	6				
							7	3.8	0.0		8							
HL1B		(4)#6	#10	1"	60	3	9			2.1	0.0		10	3	30	--	--	-- SPARE
							11					1.5	0.0	12				
							13	0.0	0.0		14							
SPARE		--	--	--	30	3	15			0.0	0.0		16	3	60	--	--	-- SPARE
							17					0.0	0.0	18				
							19	0.0	--		20							
SPARE		--	--	--	60	3	21			0.0	--		22	3	--	--	--	-- SPACE
							23					0.0	--	24				
							25	--	--		26							
SPACE		--	--	--	--	3	27		--	--				28	3	--	--	-- -- SPACE
							29					--	--	30				
				TOTAL LOAD (kVA):				38.7 kVA	31.4 kVA	32.7 kVA								
				TOTAL CURRENT (A):				140 A	113 A	119 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	8500 VA	100.00%	8500 VA	TOTAL CONNECTED LOAD:	103 kVA
HVAC	44930 VA	100.00%	44930 VA	TOTAL ESTIMATED DEMAND:	90 kVA
LTNG	7347 VA	125.00%	9183 VA	TOTAL CONNECTED CURRENT:	124 A
REC	39020 VA	62.81%	24510 VA	TOTAL ESTIMATED DEMAND CURRENT:	108 A
SPACE HEATING	3000 VA	100.00%	3000 VA		

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

PANELBOARD AND WIRING SCHEDULE

NAME: HM1B | **BUS RATING:** 125 A | **SPD:** No | **FEED THRU LUGS:** No
FED FROM: HD1B | **VOLTAGE:** 480Y/277V,3Ø,4W | **MIN. SCCR (kA):** 22 | **MULTI-SECTION:** No
MOUNTING: SURFACE | **MAINS TYPE:** MLO | **AVAIL FAULT (kA):** 16.9

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
							1	1.8	3.0		2	1	20					
VHP-30 - M-B1		#12	#12	3/4"	10	3	3			1.8	3.0		4	1	20			VHP-24 - M-B1
							5					1.8	3.0	6	1	20		VHP-24 - M-B2
VHP-24 - M-B3					20	1	7	3.0	3.0		8	1	20					VHP-24 - M-B3
VHP-24 - M-B4					20	1	9			3.0	1.6		10	1	20			VHP-24 - M-B6
VHP-24 - M-B6					20	1	11					3.0	2.8	12	1	20		VHP-18 - M-B8
VHP-24 - M-B7					20	1	13	2.8	1.5		14	2	20					EUH-1 - STAIR S1
VHP-18 - M-B8					20	1	15			2.8	1.5		16					
SPARE		--	--	--	20	1	17					0.0	0.0	18	1	20	--	-- -- SPARE
							19	1.8	0.0		20							
VHP-30 - M-B5		#12	#12	3/4"	10	3	21			1.8	0.0		22	3	20	--	--	-- SPARE
							23					1.8	0.0	24				
							25	0.0	0.0		26							
SPARE		--	--	--	30	3	27			0.0	0.0		28	3	30	--	--	-- SPARE
							29					0.0	0.0	30				
				TOTAL LOAD (kVA):				16.8 kVA		15.5 kVA			12.3 kVA					
				TOTAL CURRENT (A):				62 A		58 A			45 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	41640 VA	100.00%	41640 VA	TOTAL CONNECTED LOAD:	45 kVA
SPACE HEATING	3000 VA	100.00%	3000 VA	TOTAL ESTIMATED DEMAND:	45 kVA
				TOTAL CONNECTED CURRENT:	54 A
				TOTAL ESTIMATED DEMAND CURRENT:	54 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HL1B | **BUS RATING:** 125 A | **SPD:** No | **FEED THRU LUGS:** No
FED FROM: HD1B | **VOLTAGE:** 480Y/277V,3Ø,4W | **MIN. SCCR (kA):** 22 | **MULTI-SECTION:** No
MOUNTING: SURFACE | **MAINS TYPE:** MLO | **AVAIL FAULT (kA):** 15.7

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A	B	C	CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
LTNG - CLASSRM B103,107,109					20	1	1	1.8	1.9		2	1	20					LTNG - CLASSRM B104,108,110
LTNG - CLASSRM B113,115,116					20	1	3			1.8	0.3		4	1	20			LTNG - ELEC E-B1/ IDF - STOR
LTNG - AREA B/ MECH, CORR					20	1	5					1.2	0.2	6	1	20	3/4"	#10 #10 LTNG - EXTERIOR AREA B
LTNG - STAIR S1					20	1	7	0.2	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
				TOTAL LOAD (kVA):				3.8 kVA		2.1 kVA			1.5 kVA					
				TOTAL CURRENT (A):				14 A		8 A			5 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	7347 VA	125.00%	9183 VA	TOTAL CONNECTED LOAD:	7 kVA
				TOTAL ESTIMATED DEMAND:	9 kVA
				TOTAL CONNECTED CURRENT:	9 A
				TOTAL ESTIMATED DEMAND CURRENT:	11 A

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

COLUMBUS COUNTY SCHOOLS

COLUMBUS COUNTY SCHOOLS

LS3P
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A LEGENCE Company
10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025
NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8
Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423
LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
PANEL SCHEDULES - AREA B

ORIG SUBMISSION: 2025.09.24

SHEET:
E902

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SHEETS

PANELBOARD AND WIRING SCHEDULE

NAME: LR1C1 — **BUS RATING:** 400 A — **VOLTAGE:** 208Y/120V,3Ø,4W — **MAINS TYPE:** MCB — **SPD:** No — **MIN. SCCR (kA):** 10 — **AVAIL FAULT (kA):** 5.6 — **FEED THRU LUGS:** Yes — **MULTI-SECTION:** Yes
FED FROM: T-LR1C — **MOUNTING:** SURFACE

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - CLASSRM C122					20	1	1	0.9	1.1					2	1	20					REC - CLASSRM C122
REC - CLASSRM C123					20	1	3			1.1	1.1			4	1	20					REC - CLASSRM C123
REC - CLASSRM C121					20	1	5					1.1	0.9	6	1	20					REC - CLASSRM C121
REC - CLASSRM C120					20	1	7	1.1	0.9					8	1	20					REC - CLASSRM C120
REC - CLASSRM C129					20	1	9			1.1	1.1			10	1	20					REC - CLASSRM C129
REC - SRO OFFICE C113					20	1	11					0.9	0.9	12	1	20					REC - GUIDE. OFFICE C114
REC - GUIDE. OFFICE C115					20	1	13	0.9	0.5					14	1	20					WATER FOUNT - AREA C EAST
WATER FOUNT - AREA C EAST					20	1	15			0.5	0.7			16	1	20					REC - SUSPENSION C103
REC - OFFICE C107					20	1	17					0.9	1.3	18	1	20					REC - CONFERENCE C131
REC - OFFICE C110					20	1	19	0.9	0.9					20	1	20					REC - OFFICE C109
REC - OFFICE C108					20	1	21			0.5	1.0			22	1	20					COPIER - WORK RM C108
REC - OFFICE C106					20	1	23					0.9	1.0	24	1	20					COPIER - WORK RM C108
REC - OFFICE C111					20	1	25	0.9	1.1					26	1	20					REC - NURSE C112
REC - MEDIA CENTER C132					20	1	27			0.7	0.4			28	1	20					REC - M-C6, E-C2
REC - MEDIA CENTER C132					20	1	29					0.9	0.4	30	1	20					REC - FLR BOX MEDIA C132
REC - RECEPTION C103					20	1	31	0.7	0.7					32	1	20					REC - FLR BOX MEDIA C132
REC - FLR BOX MEDIA C132					20	1	33			0.4	1.0			34	1	20					REC - COPIER WRKRM C133
REC - FLR BOX MEDIA C132					20	1	35					0.4	0.7	36	1	20					REC - OFFICE/ WRKRM C133
REC - OFFICE/ WRKRM C133					20	1	37	0.7	0.7					38	1	20					REC - WRKROOM C135
REC - COPIER WRKRM C135					20	1	39			1.0	0.9			40	1	20					REC - CONCESSIONS C142
REC - WRKROOM C135					20	1	41					0.5	0.2	42	1	20					REC - CONCESSIONS C142
REC - CONCESSIONS C142					20	1	43	0.2	0.9					44	1	20					REC - ES RESOURCE RM C143
FRIDGE - CONCESSIONS C142					20	1	45			1.2	0.7			46	1	20					REC - ES ECS C139
REC - ES RESOURCE RM C143					20	1	47					0.5	1.1	48	1	20					REC - ES ECS C139
REC - ES ECS C139					20	1	49	0.5	1.1					50	1	20					REC - BAND/CHOIR C147
REC - J-C2, C140, C141					20	1	51			0.9	1.1			52	1	20					REC - ART CLASSRM C136
REC - BAND/CHOIR C147					20	1	53					0.7	0.4	54	1	20					REC - ART CLASSRM C136
REC - ART CLASSRM C136					20	1	55	1.1	1.1					56	1	20					REC - AREA C CORRIDOR...
REC - S-C4, KILN C137					20	1	57			0.4	0.9			58	1	20					REC - RECEPTION C103
REC - NURSE C112					20	1	59					0.4	0.5	60	1	20					REC - ADMIN CORR C102
COPIER - RECEPTION C103					20	1	61	1.0	1.3					62	1	20					REC - CONFERENCE C104
REC - CONFERENCE C104					20	1	63			0.7	0.5			64	1	20					REC - CONCESSIONS C142
REC - CHANGING TABLE C140					20	1	65					1.0	0.5	66	1	20	3/4"	#10	#10		SITE - MONUMENT SIGN
SMOKE DAMPER - MEDIA C132					20	1	67	0.4	0.2					68	1	20	3/4"	#10	#10		SITE - FLAG POLE LIGHTING
SPARE		--	--	--	20	1	69			0.0	0.0			70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71					0.0	0.0	72	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	73	0.0	0.0					74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75			0.0	0.0			76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77					0.0	0.0	78	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	79	0.0	0.0					80	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	81			0.0	0.0			82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83					0.0	0.0	84	1	20	--	--	--		SPARE
					TOTAL LOAD (kVA):			37.6 kVA		35.0 kVA		38.5 kVA									
					TOTAL CURRENT (A):			317 A		292 A		324 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	27790 VA	100.00%	27790 VA	TOTAL CONNECTED LOAD:	111 kVA
HVAC	12690 VA	100.00%	12690 VA	TOTAL ESTIMATED DEMAND:	82 kVA
LTNG	200 VA	125.00%	250 VA	TOTAL CONNECTED CURRENT:	308 A
REC	68700 VA	57.28%	39350 VA	TOTAL ESTIMATED DEMAND CURRENT:	227 A
REFRIGERATION	1700 VA	100.00%	1700 VA		

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

PANELBOARD AND WIRING SCHEDULE

NAME: LR1C2 — **BUS RATING:** 400 A — **VOLTAGE:** 208Y/120V,3Ø,4W — **MAINS TYPE:** MLO — **SPD:** No — **MIN. SCCR (kA):** 10 — **AVAIL FAULT (kA):** 5.5 — **FEED THRU LUGS:** No — **MULTI-SECTION:** Yes
FED FROM: LR1C1 — **MOUNTING:** SURFACE

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
GUIDANCE C117 COPIER					20	1	1	1.0	0.9					2	1	20					REC - GUIDANCE C117
REC - BAND/CHOIR C147					20	1	3			1.1	0.7			4	1	20					REC - BAND/CHOIR C147
REC - BROADCAST C134					20	1	5					0.7	1.1	6	1	20					REC - BROADCAST C134
REC - BROADCAST C134					20	1	7	1.1	0.9					8	1	20					REC - AV EQUIPMENT C134A
REC - CORRIDOR & M-C7/M-C8					20	1	9			0.9	0.7			10	1	20					REC - SMALL CONFERENCE...
REC - STOR. S-C1/2, MECH					20	1	11					0.7	0.5	12	1	20					EXT REC - EAST COURTYARD
EXT REC - FRONT DOOR					20	1	13	0.2	0.4					14	1	20					REC - COMP. WAITING C103
REC - BROADCAST C134					20	1	15			0.7	0.7			16							
REC - IDF-C					20	1	17					0.7	0.7	18	3	30	3/4"	#10	#10		UPS - IDF-C
REC - IDF-C					20	1	19	0.7	0.7					20							
REC - IDF-C					20	1	21			0.7	0.5			22	1	20					NAC PANEL - IDF-C
SUMP PUMP - ELEVATOR					20	1	23					0.2	0.2	24	1	20					REC - ELEV E1 PIT
ELEV CELL DIALER					20	1	25	1.0	1.0					26	1	20					EQUIP - ELEV CAB LTNG
REC - GIRLS TLT C144					20	1	27			0.4	0.9			28	1	20					REC - SMALL CONF. RM C116
							29					0.7	0.7	30	1	20					REC - GUIDANCE C117
UPS - MDF-C		#10	#10	3/4"	30	3	31	0.7	1.1					32	2	30	3/4"	#10	#10		HVAC - AC/CU-12 - IDF-C
							33			0.7	1.1			34							
REC - MDF-C					20	1	35					1.1	10.3	36	1	20					KILN FAN - C137
FACP - MDF-C					20	1	37	0.5	1.1					38	1	20					REC - MDF-C
DOOR POWER PANEL - MDF-C					20	1	39			0.5	0.7			40	1	20					REC - MDF-C
VAV BOXES - AREA C NORTH					20	1	41					0.2	0.5	42	1	20					SEC PANEL - MDF-C
							43	3.7	0.0					44	1	20					BDA PANEL - MDF-C
KILN - KILN C137		#8	#10	3/4"	50	3	45			3.7	0.2			46	1	20					KILN FAN - KILN C137
							47					3.7	0.5	48	1	20					EF-2 - MECH M-C6
AC/CU-24 - MDF-C		#10	#10	3/4"	30	2	49	2.0	1.1					50	2	30	3/4"	#10	#10		HVAC - AC/CU-12 - IDF-C2
							51			2.0	1.1			52							
SPARE		--	--	--	20	1	53					0.0	0.0	54	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	55	0.0	0.0					56	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	57			0.0	0.0			58	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	59					0.0	0.0	60	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	61	0.0	0.0					62	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	63			0.0	0.0			64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65					0.0	0.0	66	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	67	0.0	0.0					68	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	69			0.0	0.0			70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71					0.0	0.0	72	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	73	0.0	0.0					74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75			0.0	0.0			76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77					0.0	0.0	78	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	79	0.0	0.0					80	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	81			0.0	0.0			82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83					0.0	0.0	84	1	20	--	--	--		SPARE
					TOTAL LOAD (kVA):			17.9 kVA		17.2 kVA		22.5 kVA									
					TOTAL CURRENT (A):			150 A		143 A		188 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	25890 VA	100.00%	25890 VA	TOTAL CONNECTED LOAD:	58 kVA
HVAC	12690 VA	100.00%	12690 VA	TOTAL ESTIMATED DEMAND:	53 kVA
REC	19000 VA	76.32%	14500 VA	TOTAL CONNECTED CURRENT:	160 A
				TOTAL ESTIMATED DEMAND CURRENT:	147 A

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

DISTRIBUTION PANELBOARD AND WIRING SCHEDULE

NAME: HD1C — **BUS RATING:** 400 A — **VOLTAGE:** 480Y/277V,3Ø,4W — **MAINS TYPE:** MCB — **SPD:** No — **MIN. SCCR (kA):** 18 — **AVAIL FAULT (kA):** 12
FED FROM: MDP — **MOUNTING:** SURFACE

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	OCP	POLES	LOAD	NOTES
1	HM1C	1	(4)#1	#6	1-1/2"	150 A	3	73.2	
2	HL1C	1	(4)#6	#10	1"	60 A	3	12.2	
3	T-LR1C	1	(3)#4/0	#4	2"	250 A	3	111.1	
4	ELEV	1	(3)#6	#10	1"	60 A	3	11.6	
5	SPARE	--	--	--	--	30 A	3	0.0	
6	SPARE	--	--	--	--	30 A	3	0.0	
7	SPARE	--	--	--	--	60 A	3	0.0	
8	SPARE	--	--	--	--	60 A	3	0.0	
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	27790 VA	100.00%	27790 VA	TOTAL CONNECTED LOAD:	208 kVA
HVAC	85850 VA	100.00%	85850 VA	TOTAL ESTIMATED DEMAND:	182 kVA
LTNG	12436 VA	125.00%	15545 VA	TOTAL CONNECTED CURRENT:	250 A
REC	68700 VA	57.28%	39350 VA	TOTAL ESTIMATED DEMAND CURRENT:	219 A
REFRIGERATION	1700 VA	100.00%	1700 VA		
ELEV	11600 VA	100.00%	11600 VA		

NOTES:

PANELBOARD AND WIRING SCHEDULE

NAME: HM1C — **BUS RATING:** 250 A — **VOLTAGE:** 480Y/277V,3Ø,4W — **MAINS TYPE:** MLO — **SPD:** No — **MIN. SCCR (kA):** 18 — **AVAIL FAULT (kA):** 10.4 — **FEED THRU LUGS:** No — **MULTI-SECTION:** No
FED FROM: HD1C — **MOUNTING:** SURFACE

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
VHP-12 - M-C1		#12	#12	3/4"	10	1	1	1.6	3.0					2	1	20					VHP-24 - M-C1
VHP-18 - M-C2					20	1	3			2.8	1.6			4	1	10	3/4"	#12	#12		VHP-12 - M-C2
							5					2.8	3.0	6	1	20					VHP-24 - M-C3
VHP-48 - M-C2		#12	#12	3/4"	15	3	7	2.8	3.0					8	1	20					VHP-24 - M-C3
							9			2.8	2.8			10	1	20					VHP-18 - M-C4
VHP-18 - M-C4					20	1	11					2.8	2.8	12	1	20					VHP-18 - M-C5
VHP-18 - M-C5					20	1	13	2.8	2.8					14							
VHP-12 - M-C6		#12	#12	3/4"	10	1	15			1.6	2.8			16	3	20					VHP-60 - M-C6
VHP-12 - M-C6		#12	#12	3/4"	10	1	17					1.6	2.8	18							
VHP-18 - M-C6					20	1	19	2.8	3.0					20	1	20					VHP-24 - M-C7
							21			1.8	1.8			22							
VHP-30 - M-C7		#12	#12	3/4"	10	3	23					1.8	1.8	24	3	10	3/4"	#12	#12		VHP-30 - M-C7
							25	1.8	1.8					26							
VHP-12 - M-C8		#12	#12	3/4"	10	1	27			1.6	2.8			28	1	20					VHP-18 - M-C8
VHP-24 - M-C8					20	1	29					3.0	3.0	30	1	20					VHP-24 - M-C8
							31	0.0	0.0					32							
SPARE		--	--	--	20	3	33			0.0	0.0			34	3	20	--	--	--		SPARE
							35					0.0	0.0	36							
							37	0.0	0.0					38							
SPARE		--	--	--	30	3	39			0.0	0.0			40	3	30	--	--	--		SPARE
							41					0.0	0.0	42							
					TOTAL LOAD (kVA):			25.3 kVA		22.5 kVA		25.3 kVA									
					TOTAL CURRENT (A):			93 A		81 A		93 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	73160 VA	100.00%	73160 VA	TOTAL CONNECTED LOAD:	73 kVA
				TOTAL ESTIMATED DEMAND:	73 kVA
				TOTAL CONNECTED CURRENT:	88 A
				TOTAL ESTIMATED DEMAND CURRENT:	88 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HL1C — **BUS RATING:** 125 A — **VOLTAGE:** 480Y/277V,3Ø,4W — **MAINS TYPE:** MLO — **SPD:** No — **MIN. SCCR (kA):** 18 — **AVAIL FAULT (kA):** 9.5 — **FEED THRU LUGS:** No — **MULTI-SECTION:** No
FED FROM: HD1C — **MOUNTING:** SURFACE

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
LTNG - CLASSRM AREA C...					20	1	1	2.6	1.2					2	1	20					LTNG - ADMIN WEST WING
LNTG - ADMIN EAST WING					20	1	3			0.8	2.3			4	1	20					LTNG - CLASSRM C136/139/147
LTNG - AREA C WEST, MEP					20	1	5					1.0	0.1	6	1	20					LTNG - EXT ENTRANCE
LTNG - AREA C CORR SOUTH					20	1	7	1.1	1.6					8	1	20					LTNG - MEDIA CENTER
LTNG - AREA C CORR N, MECH					20	1	9			0.6	0.9			10	1	20					LTNG - RM C133/134/135/142
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
					TOTAL LOAD (kVA):			6.6 kVA		4.6 kVA		1.1 kVA									
					TOTAL CURRENT (A):			26 A		19 A		4 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	12236 VA	125.00%	15295 VA	TOTAL CONNECTED LOAD:	12 kVA
				TOTAL ESTIMATED DEMAND:	15 kVA
				TOTAL CONNECTED CURRENT:	15 A
				TOTAL ESTIMATED DEMAND CURRENT:	18 A

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

COLUMBUS COUNTY SCHOOLS

COLUMBUS COUNTY SCHOOLS

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09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd. Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
PANEL SCHEDULES - AREA C - LEVEL 1

ORIG SUBMISSION: 2025.09.24

SHEET:
E903

ISSUE FOR PERMIT / BIDDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH WHEN PLOTTED ON ORIGINAL PLOT SHEETS

PANELBOARD AND WIRING SCHEDULE

NAME: LR2C2 — **BUS RATING:** 225 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: T-LR2C2 — **VOLTAGE:** 208Y/120V,3Ø,4W — **MIN. SCCR (kA):** 10 — **MULTI-SECTION:** Yes
MOUNTING: SURFACE — **MAINS TYPE:** MCB — **AVAIL FAULT (kA):** 5.7

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - CLASSRM D203					20	1	1	1.2	1.6					2	1	20					REC - CLASSRM D203
REC - CLASSRM D201					20	1	3			1.2	1.6			4	1	20					REC - CLASSRM D201
REC - CLASSRM D202					20	1	5					1.6	1.2	6	1	20					REC - CLASSRM D202
REC - CLASSRM C215					20	1	7	1.2	1.6					8	1	20					REC - CLASSRM C215
REC - CLASSRM C213					20	1	9			1.6	1.2			10	1	20					REC - CLASSRM C213
REC - CLASSRM C212					20	1	11					1.2	1.6	12	1	20					REC - CLASSRM C212
REC - CLASSRM C211					20	1	13	1.6	1.2					14	1	20					REC - CLASSRM C211
REC - L2 CORRIDOR C201					20	1	15			0.4	0.5			16	1	20					WATER FOUNT - CORR C201
REC - ELEV E1 TOP OF SHAFT					20	1	17					0.2	0.8	18	1	20					REC - BOYS/GIRLS TLT; STAFF
REC - CORRIDOR C201/MECH					20	1	19	0.9	0.9					20	1	20					REC - COORIDOR C201
EF-2 - ELEC C201					20	1	21			0.5	0.2			22	1	20					VAV BOXES - FL 2 EAST
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
								TOTAL LOAD (kVA):		10.2 kVA		7.2 kVA		6.6 kVA					
								TOTAL CURRENT (A):		86 A		61 A		55 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIP	7600 VA	100.00%	7600 VA	TOTAL CONNECTED LOAD: 24 kVA
HVAC	730 VA	100.00%	730 VA	TOTAL ESTIMATED DEMAND: 21 kVA
REC	15660 VA	81.93%	12830 VA	TOTAL CONNECTED CURRENT: 67 A
				TOTAL ESTIMATED DEMAND CURRENT: 59 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HD2C2 — **BUS RATING:** 250 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: MDP — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 35 — **MULTI-SECTION:** No
MOUNTING: SURFACE — **MAINS TYPE:** MCB — **AVAIL FAULT (kA):** 18.7

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
							1	11.4	4.3					2							
HM2C2		(4)#2	#8	1-1/4"	100	3	3			7.4	3.5			4	3	60	1"	#10	(4)#6		HL2C2
							5					5.6	2.7	6							
							7	10.2	0.0					8							
T-LR2C2		(3)#1	#6	1-1/4"	125	3	9			7.2	0.0			10	3	30	--	--	--		SPARE
							11					6.6	0.0	12							
							13	0.0	0.0					14							
SPARE		--	--	--	30	3	15			0.0	0.0			16	3	60	--	--	--		SPARE
							17					0.0	0.0	18							
							19	0.0	--					20							
SPARE		--	--	--	60	3	21			0.0	--			22	3	--	--	--	--		SPACE
							23					0.0	--	24							
							25	--	--					26							
SPACE		--	--	--	--	3	27			--	--			28	3	--	--	--	--		SPACE
							29					--	--	30							
								TOTAL LOAD (kVA):		25.9 kVA		18.1 kVA		14.9 kVA					
								TOTAL CURRENT (A):		95 A		67 A		54 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIP	7600 VA	100.00%	7600 VA	TOTAL CONNECTED LOAD: 59 kVA
HVAC	25170 VA	100.00%	25170 VA	TOTAL ESTIMATED DEMAND: 59 kVA
LTNG	10524 VA	125.00%	13155 VA	TOTAL CONNECTED CURRENT: 71 A
REC	15660 VA	81.93%	12830 VA	TOTAL ESTIMATED DEMAND CURRENT: 71 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HL2C2 — **BUS RATING:** 125 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: HD2C2 — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 35 — **MULTI-SECTION:** No
MOUNTING: SURFACE — **MAINS TYPE:** MLO — **AVAIL FAULT (kA):** 16.4

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
LTNG - B202/204, C210					20	1	1	1.7	1.2					2	1	20					LTNG - B201/203, C207
LTNG - C206/208/209					20	1	3			1.1	1.5			4	1	20					LTNG - C202/204/211
LTNG - C213/215, D201					20	1	5					1.2	1.5	6	1	20					LTNG - C212, D202/203
LTNG - E-C3, IDF,J-C3,C203/205					20	1	7	0.7	0.8					8	1	20					LTNG - CORRIDOR WEST
LTNG - CORRIDOR EAST					20	1	9			0.7	0.2			10	1	20					LTNG - MECH. PLATFORM
LTNG - ELEV E1 TOP SHAFT					20	1	11					0.1	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
								TOTAL LOAD (kVA):		4.3 kVA		3.5 kVA		2.7 kVA					
								TOTAL CURRENT (A):		16 A		13 A		10 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTNG	10524 VA	125.00%	13155 VA	TOTAL CONNECTED LOAD: 11 kVA
				TOTAL ESTIMATED DEMAND: 13 kVA
				TOTAL CONNECTED CURRENT: 13 A
				TOTAL ESTIMATED DEMAND CURRENT: 16 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HM2C2 — **BUS RATING:** 125 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: HD2C2 — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 18 — **MULTI-SECTION:** No
MOUNTING: SURFACE — **MAINS TYPE:** MLO — **AVAIL FAULT (kA):** 12.5

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
VHP-18 - M-C11					20	1	1	2.8	2.8					2	1	20					VHP-18 - M-C11
VHP-24 - M-C11					20	1	3			3.0	1.6			4	1	20					VHP-12 - M-C12
VHP-18 - M-C12					20	1	5					2.8	2.8	6	1	20					VHP-18 - M-D9
VHP-18 - M-D9					20	1	7	2.8	3.0					8	1	20					VHP-24 - M-D10
VHP-18 - M-D10					20	1	9			2.8	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
							19	0.0	0.0					20							
SPARE		--	--	--	20	3	21			0.0	0.0			22	3	20	--	--	--		SPARE
							23					0.0	0.0	24							
							25	0.0	0.0					26							
SPARE		--	--	--	30	3	27			0.0	0.0			28	3	30	--	--	--		SPARE
							29					0.0	0.0	30							
								TOTAL LOAD (kVA):		11.4 kVA		7.4 kVA		5.6 kVA					
								TOTAL CURRENT (A):		42 A		28 A		20 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	24440 VA	100.00%	24440 VA	TOTAL CONNECTED LOAD: 24 kVA
				TOTAL ESTIMATED DEMAND: 24 kVA
				TOTAL CONNECTED CURRENT: 29 A
				TOTAL ESTIMATED DEMAND CURRENT: 29 A

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

DISTRIBUTION PANELBOARD AND WIRING SCHEDULE

NAME: HD2C1 — **BUS RATING:** 600 A — **SPD:** No
FED FROM: MDP — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 35
MOUNTING: SURFACE — **MAINS TYPE:** MCB — **AVAIL FAULT (kA):** 18.7

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	OCP	POLES	LOAD	NOTES
1	HM2C1	1	(4)#3/0	#6	2"	200 A	3	114.7	
2	T-LR2C1	1	(3)#1/0	#6	1-1/2"	150 A	3	50.5	
3	HPC-1	1	250KCMIL	#4	3"	250 A	3	128.2	
4	SPARE	--	--	--	--	30 A	3	0.0	
5	SPARE	--	--	--	--	30 A	3	0.0	
6	SPARE	--	--	--	--	60 A	3	0.0	
7	SPARE	--	--	--	--	60 A	3	0.0	
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIP	151546 VA	100.00%	151546 VA	TOTAL CONNECTED LOAD: 293 kVA
HVAC	107507 VA	100.00%	107507 VA	TOTAL ESTIMATED DEMAND: 281 kVA
REC	34380 VA	64.54%	22190 VA	TOTAL CONNECTED CURRENT: 353 A
				TOTAL ESTIMATED DEMAND CURRENT: 338 A

NOTES:

PANELBOARD AND WIRING SCHEDULE

NAME: HM2C1 — **BUS RATING:** 250 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: HD2C1 — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 18 — **MULTI-SECTION:** No
MOUNTING: SURFACE — **MAINS TYPE:** MLO — **AVAIL FAULT (kA):** 10

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
VHP-18 - M-B9					20	1	1	2.8	3.0					2	1	20					VHP-24 - M-B9
VHP-18 - M-B10					20	1	3			2.8	3.0			4	1	20					VHP-24 - M-B10
VHP-18 - M-C9					20	1	5					2.8	2.8	6	1	20					VHP-18 - M-C9
VHP-24 - M-C9					20	1	7	3.0	3.0					8	1	20					VHP-24 - M-C9
VHP-18 - M-C10					20	1	9			2.8	2.8			10	1	20					VHP-18 - M-C10
VHP-12 - PLATFORM M301					20	1	11					1.6	0.0	12	1	20	--	--	--		SPARE
							13	1.3	1.3					14							
VFD P-1A		#12	#12	3/4"	20	3	15			1.3	1.3			16	3	20	3/4"	#12	#12		VFD P-1B
							17					1.3	1.3	18							
							19	14.4	11.1					20							
DOAS SF-1		#3	#8	1-1/2"	90	3	21			14.4	11.1			22	3	50	1"	#10	#8		DOAS EF-1
							23					14.4	11.1	24							
							25	0.0	0.0					26							
SPARE		--	--	--	30	3	27			0.0	0.0			28	3	30	--	--	--		SPARE
							29					0.0	0.0	30							
								TOTAL LOAD (kVA):		39.8 kVA		39.5 kVA		35.4 kVA					
								TOTAL CURRENT (A):		146 A		145 A		128 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIP	7972 VA	100.00%	7972 VA	TOTAL CONNECTED LOAD: 115 kVA
HVAC	106777 VA	100.00%	106777 VA	TOTAL ESTIMATED DEMAND: 115 kVA
				TOTAL CONNECTED CURRENT: 138 A
				TOTAL ESTIMATED DEMAND CURRENT: 138 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: LR2C1 — **BUS RATING:** 225 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: T-LR2C1 — **VOLTAGE:** 208Y/120V,3Ø,4W — **MIN. SCCR (kA):** 10 — **MULTI-SECTION:** Yes
MOUNTING: SURFACE — **MAINS TYPE:** MCB — **AVAIL FAULT (kA):** 4.6

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - CLASSRM C210					20	1	1	1.4	1.6					2	1	20					REC - CLASSRM C210
REC - CLASSRM B202					20	1	3			1.6	1.4			4	1	20					REC - CLASSRM B202
REC - CLASSRM C209					20	1	5					1.2	1.6	6	1	20					REC - CLASSRM C209
REC - CLASSRM C207					20	1	7	1.2	1.6					8	1	20					REC - CLASSRM C207
REC - CLASSRM B201					20	1	9			1.6	1.2			10	1	20					REC - CLASSRM B201
REC - CLASSRM B203					20	1	11					1.2	1.6	12	1	20					REC - CLASSRM B203
WATER FOUNT - CORR C201					20	1	13	0.5	1.2					14	1	20					REC - FACULTY WRKRM C203
REC - FACULTY WRKRM C203					20	1	15			0.2	0.2			16	1	20					REC - FACULTY WRKRM C203
FRIDGE - FAC WRKRM C203					20	1	17					1.0	0.2	18	1	20					REC - FACULTY WRKRM C203
REC - STEMLAB C204					20	1	19	1.6	1.2					20	1	20					REC - STEM LAB C204
REC - FLEX SPACE C206					20	1	21			1.8	1.6			22	1	20					REC - FLEX SPACE C206
REC - AP OFFICE C208					20	1	23					1.4	1.4	24	1	20					REC - RESOURCE RM C205
REC- RESOURCE RM C205					20	1	25	1.2	1.6					26	1	20					REC - TECH LAB C202
REC - TECH LAB C202					20	1	27			1.8	1.0			28	1	20					REC - UC FRIDGE PREP B205
REC - SCIENCE LAB B204					20	1	29					1.1	0.4	30	1	20					REC CEILING - SCI LAB B204
REC - SCIENCE LAB B204					20	1	31	0.4	1.4					32	1	20					REC - SCIENCE LAB B204
REC - SCIENCE LAB B204					20	1	33			0.4	0.7			34	1	20					REC - SCIENCE LAB B204
REC - SCIENCE PREP B205					20	1	35					0.5	0.5	36	1	20					REC - SCIENCE PREP B205
SPACE		--	--	--	--	1	37	--	--					38	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	39			--	--			40	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	41					--	--	42	1	--	--	--	--		SPACE
REC - ELEC E-C3/ JAN J-C3					20	1	43	0.4	0.7					44							
REC - IDF-C2					20	1	45			0.7	0.7			46	3	30	3/4"	#10	#10		UPS - IDF-C2
REC - IDF-C2					20	1	47					1.1	0.7	48							
REC - IDF-C2					20	1	49	0.7	0.7					50	1	20					REC - IDF-C2
NAC PANEL - IDF-C2					20	1	51			0.5	0.5			52	1	20					REC - MECH. PLATFORM
REC - COORIDOR - C201					20	1	53					1.1	0.4	54	1	20					REC - CR STEM LAB C204
REC - CR STEM LAB C204					20	1	55	0.4	0.5					56	1	20					BAS PANEL - MECH...
BAS PANEL - MECH...					20	1	57			0.5	0.5			58	1	20					EF-2 - ELEC E-C3
VAV BOXES - FL2 WEST					20	1	59					0.2	0.0	60	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	61	0.0	0.0					62	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	63			0.0	0.0			64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65					0.0	0.0	66	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	67	0.0	0.0					68	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	69			0.0	0.0			70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71					0.0	0.0	72	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	73	0.0	0.0					74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75			0.0	0.0			76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77					0.0	0.0	78	1	20	--	--	--		SPARE
SPACE		--	--	--	--	1	79	--	--					80	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	81			--	--			82	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	83					--	--	84	1	--	--	--	--		SPACE
								TOTAL LOAD (kVA):		18.2 kVA		16.8 kVA		15.5 kVA					
								TOTAL CURRENT (A):		154 A		141 A		129 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
EQUIP	15360 VA	100.00%	15360 VA	TOTAL CONNECTED LOAD: 50 kVA
HVAC	730 VA	100.00%	730 VA	TOTAL ESTIMATED DEMAND: 38 kVA
REC	34380 VA	64.54%	22190 VA	TOTAL CONNECTED CURRENT: 140 A
				TOTAL ESTIMATED DEMAND CURRENT: 106 A

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

COLUMBUS COUNTY SCHOOLS

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10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com

09.24.2025

NORTH CAROLINA PROFESSIONAL SEAL 049037 ENGINEER ZACHARY P SCHNEIDER

CMTA CORP. LICENSE NO. C-4556

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COLUMBUS COUNTY SCHOOLS PK-8

Green Swamp Rd, Hwy 211 and Sam Potts Hwy 214
Bolton, North Carolina 28423

LS3P PROJECT: 7201-240219

Δ	DATE	DESCRIPTION
A	2024.10.30	SCHEMATIC DESIGN
B	2025.04.02	DESIGN DEVELOPMENT
C	2025.07.14	50% CD
D	2025.08.18	95% CD
E	2025.09.24	FOR PERMIT / BIDDING

SHEET NAME:
PANEL SCHEDULES - AREA C - LEVEL 2

ORIG SUBMISSION: 2025.09.24

SHEET:
E904

ISSUE FOR PERMIT / BIDDING

E
D
C
B
A

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL PLOT SHEETS

PANELBOARD AND WIRING SCHEDULE

NAME: LR1D1 — **BUS RATING:** 225 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: T-LR1D — **VOLTAGE:** 208Y/120V,3Ø,4W — **MIN. SCCR (kA):** 10 — **MULTI-SECTION:** Yes
MOUNTING: SURFACE — **MAINS TYPE:** MCB — **AVAIL FAULT (kA):** 5.6

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
REC - CLASSRM D104					20	1	1	1.1	1.1					2	1	20					REC - CLASSRM D103
REC - CLASSRM D104					20	1	3			1.1	1.3			4	1	20					REC - CLASSRM D103
REC - CLASSRM D108					20	1	5					1.1	0.9	6	1	20					REC - CLASSRM D108
REC - CLASSRM D110					20	1	7	0.7	1.1					8	1	20					REC - CLASSRM D110
REC - CLASSRM D107					20	1	9			0.9	1.1			10	1	20					REC - CLASSRM D107
REC - CLASSRM D109					20	1	11					1.1	0.9	12	1	20					REC - CLASSRM D109
REC - CLASSRM D114					20	1	13	0.9	1.1					14	1	20					REC - CLASSRM D114
REC - CLASSRM D113					20	1	15			0.9	1.1			16	1	20					REC - CLASSRM D113
REC - CLASSRM D115					20	1	17					1.1	0.5	18	1	20					REC - CLASSRM D115
REC - CLASSRM D116					20	1	19	1.1	1.3					20	1	20					REC - CLASSRM D116
REC - CLASSRM D120					20	1	21			1.3	1.1			22	1	20					REC - CLASSRM D120
REC - CLASSRM D121					20	1	23					1.1	0.9	24	1	20					REC - CLASSRM D121
WATER FOUNT - AREA D					20	1	25	0.5	0.5					26	1	20					WATER FOUNT - AREA D
REC - AREA C CORR. WEST					20	1	27			1.4	1.3			28	1	20					REC - AREA C CORR. WEST
REC - D100, D101, M-D7, S2					20	1	29					1.1	1.3	30	1	20					REC - CORR D101, E-D1, MECH
REC - CORR D101, MECH RMS					20	1	31	1.4	0.2					32	1	20					EXT REC - VEST D100
REC - EXT/ STAIR S2					20	1	33			0.4	1.7			34							
REC - CLASSRM D115					20	1	35					0.7	1.7	36	3	30	3/4"	#10	#10		UPS - IDF-D
REC - IDF-D					20	1	37	0.7	1.7					38							
REC - IDF-D					20	1	39			1.1	0.5			40	1	20					NAC PANEL - IDF-D
REC - IDF-D					20	1	41					1.1	0.2	42	1	20					VAV BOXES - AREA D
VAV BOXES - AREA C EAST					20	1	43	0.2	1.1					44	2	30	3/4"	#10	#10		AC/CU-12 - IDF-D
VAV BOXES - AREA D					20	1	45			0.2	1.1			46							
EF-2 - ELECT E-D1					20	1	47					0.5	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
SPARE		--	--	--	20	1	55	0.0	0.0					56	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	57			0.0	0.0			58	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	59					0.0	0.0	60	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	61	0.0	0.0					62	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	63			0.0	0.0			64	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	65					0.0	0.0	66	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	67	0.0	0.0					68	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	69			0.0	0.0			70	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	71					0.0	0.0	72	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	73	0.0	0.0					74	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	75			0.0	0.0			76	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	77					0.0	0.0	78	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	79	0.0	0.0					80	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	81			0.0	0.0			82	1	20	--	--	--		SPARE
SPARE		--	--	--	20	1	83					0.0	0.0	84	1	20	--	--	--		SPARE
					TOTAL LOAD (kVA):			14.6 kVA		16.1 kVA		14.1 kVA									
					TOTAL CURRENT (A):			122 A		135 A		117 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6600 VA	100.00%	6600 VA	TOTAL CONNECTED LOAD:	45 kVA
HVAC	3290 VA	100.00%	3290 VA	TOTAL ESTIMATED DEMAND:	32 kVA
REC	34920 VA	64.32%	22460 VA	TOTAL CONNECTED CURRENT:	124 A
				TOTAL ESTIMATED DEMAND CURRENT:	90 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HD1D — **BUS RATING:** 400 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: MDP — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 35 — **MULTI-SECTION:** No
MOUNTING: SURFACE — **MAINS TYPE:** MCB — **AVAIL FAULT (kA):** 16.5

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
							1	14.6	16.2					2							
T-LR1D		(3)#1	#6	1-1/4"	125	3	3			16.1	14.5			4	3	100	1-1/4"	#8	(4)#2		HM1D
							5					14.1	11.9	6							
							7	4.7	0.0					8							
HL1D		(4)#6	#10	1"	60	3	9			3.1	0.0			10	3	30	--	--	--		SPARE
							11					2.2	0.0	12							
							13	0.0	0.0					14							
SPARE		--	--	--	30	3	15			0.0	0.0			16	3	60	--	--	--		SPARE
							17					0.0	0.0	18							
							19	0.0	--					20							
SPARE		--	--	--	60	3	21			0.0	--			22	3	--	--	--	--		SPACE
							23					0.0	--	24							
SPACE		--	--	--	--	1	25	--	--					26	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	27			--	--			28	1	--	--	--	--		SPACE
SPACE		--	--	--	--	1	29					--	--	30	1	--	--	--	--		SPACE
					TOTAL LOAD (kVA):			35.4 kVA		33.7 kVA		28.2 kVA									
					TOTAL CURRENT (A):			131 A		125 A		102 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP	6600 VA	100.00%	6600 VA	TOTAL CONNECTED LOAD:	97 kVA
HVAC	42880 VA	100.00%	42880 VA	TOTAL ESTIMATED DEMAND:	87 kVA
LTNG	9977 VA	125.00%	12472 VA	TOTAL CONNECTED CURRENT:	117 A
REC	34920 VA	64.32%	22460 VA	TOTAL ESTIMATED DEMAND CURRENT:	105 A
SPACE HEATING	3000 VA	100.00%	3000 VA		

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PANELBOARD AND WIRING SCHEDULE

NAME: HM1D — **BUS RATING:** 125 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: HD1D — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 18 — **MULTI-SECTION:** No
MOUNTING: SURFACE — **MAINS TYPE:** MLO — **AVAIL FAULT (kA):** 10.9

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
VHP-18 - M-D1					20	1	1	2.8	3.0					2	1	20					VHP-24 - M-D1
							3			1.8	2.8			4	1	20					VHP 18 - M-D2
VHP-30 - M-D2		#12	#12	3/4"	10	3	5					1.8	2.8	6	1	20					VHP 18 - M-D3
							7	1.8	2.8					8	1	20					VHP 18 - M-D3
VHP 18 - M-D4					20	1	9			2.8	2.8			10	1	20					VHP 18 - M-D4
VHP 24 - M-D5					20	1	11					3.0	2.8	12	1	20					VHP 18 - M-D6
VHP 24 - M-D7					20	1	13	3.0	2.8					14	1	20					VHP 18 - M-D8
VHP 12 - M-D8		#12	#12	3/4"	10	1	15			2.8	1.5			16	2	20					EUH-1 - STAIR S2
SPARE		--	--	--	20	1	17					0.0	1.5	18							
							19	0.0	0.0					20							
SPARE		--	--	--	20	3	21			0.0	0.0			22	3	20	--	--	--		SPARE
							23					0.0	0.0	24							
							25	0.0	0.0					26							
SPARE		--	--	--	30	3	27			0.0	0.0			28	3	30	--	--	--		SPARE
							29					0.0	0.0	30							
					TOTAL LOAD (kVA):			16.2 kVA		14.5 kVA		11.9 kVA									
					TOTAL CURRENT (A):			60 A		54 A		43 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	39590 VA	100.00%	39590 VA	TOTAL CONNECTED LOAD:	43 kVA
SPACE HEATING	3000 VA	100.00%	3000 VA	TOTAL ESTIMATED DEMAND:	43 kVA
				TOTAL CONNECTED CURRENT:	51 A
				TOTAL ESTIMATED DEMAND CURRENT:	51 A

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

PANELBOARD AND WIRING SCHEDULE

NAME: HL1D — **BUS RATING:** 125 A — **SPD:** No — **FEED THRU LUGS:** No
FED FROM: HD1D — **VOLTAGE:** 480Y/277V,3Ø,4W — **MIN. SCCR (kA):** 18
MOUNTING: SURFACE — **MAINS TYPE:** MLO — **AVAIL FAULT (kA):** 9.9 — **MULTI-SECTION:** No

CIRCUIT DESCRIPTION	NOTES	WIRE	GND	C	OCP	P	CKT	A		B		C		CKT	P	OCP	C	GND	WIRE	NOTES	CIRCUIT DESCRIPTION
LTNG - CLASSRM C121123...					20	1	1	1.6	1.1					2	1	20					LTNG - C120/122, J-C1, S-C5
LTNG - CLASSRM D113/115/116					20	1	3			1.4	1.4			4	1	20					LTNG - CLASSRM D103/107/109
LTNG - CLASSRM D104/108/110					20	1	5					1.3	0.9	6	1	20					LTNG - CLASSRM D114/120
LTNG - CORRIDOR/ MECH					20	1	7	1.1	0.8					8	1	20					LTNG - CORRIDOR/ RESTRMS
LTNG - ELEV E-1 PIT					20	1	9			0.1	0.2			10	1	20					LTNG - STAIR S2
LTNG - EXT SOUTH					20	1	11					0.0	0.0	12	1	20					LTNG - EXT NORTH
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
					TOTAL LOAD (kVA):			4.7 kVA		3.1 kVA		2.2 kVA									
					TOTAL CURRENT (A):			17 A		11 A		8 A									

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LTNG	9977 VA	125.00%	12472 VA	TOTAL CONNECTED LOAD:	10 kVA
				TOTAL ESTIMATED DEMAND:	12 kVA
				TOTAL CONNECTED CURRENT:	12 A
				TOTAL ESTIMATED DEMAND CURRENT:	15 A

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

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SHEET NAME:
PANEL SCHEDULES - AREA D

ORIG SUBMISSION: 2025.09.24

SHEET:
E905

ISSUE FOR PERMIT / BIDDING

E D C B A

1 2 3 4 5 6