ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY (MIN) CAPACITY (MIN)
APPROX	APPROXIMATE
AWG	AMERICAN WIRE GUAGE
ANN	ANNUNCIATOR
BLDG	BUILDING
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CAT	CATALOG
CATV	CABLE TELEVISION
CKT	CIRCUIT
CONT	CONTINUATION
CR	CARD READER
DD	DUCT DETECTOR
DIA	DIAMETER
DIM	DIMENSION
DP	DISTRIBUTION PANEL
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ELEC	ELECTRICAL
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EQUIP	EQUIPMENT
F	FUSED
FA	FIRE ALARM
FIN	FINISH
FIX	FIXTURE
FLUOR	FLUORESCENT
GFI	GROUND FAULT INTERRUPTER
GRND	GROUND
HP	HORSEPOWER
IF	INSIDE FROST
IG	ISOLATED GROUND
INCAN	INCANDESCENT
J	JUNCTION
KVA	KILO-VOLT-AMPERE
KW	KILOWATT
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LGT	LIGHT
M	METER
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MCM	THOUSAND CIRCULAR MILS
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MPC	MINI POWER CENTER
MTD,MTG	MOUNT (ED),(ING)
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE
PC	PHOTO CELL
PMS	PROPERTY MANAGEMENT SYSTEM
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RS	RAPID START
RSC	RIGID STEEL CONDUIT
SD	SMOKE DETECTOR
SIM	SIMILAR
S/S	STAINLESS STEEL
SPST	SINGLE POLE SINGLE THROW
T	TRANSFORMER
TC	TRAY CABLE
TBB	TELEPHONE BACKBOARD
TEL	TELEPHONE
TM	TV MONITOR
TYP	TYPICAL
UL	UNDERWRITER LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE
WP	WEATHERPROOF
WW	WARM WHITE
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MTG.HT.	SYMBOL	DESCRIPTION	MTG.HT.
x-1,3,5	ARROWHEAD INDICATES HOMERUN. X-1, 3, AND 5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X. CIRCUIT NUMBERS 1, 3, AND 5.			SINGLE LIGHT FIXTURE WITH POLE	
3,5	INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 AND 5 OF PANEL X.			TWIN LIGHT FIXTURE WITH POLE	
#	MARKS ACROSS RACEWAY SYMBOLS INDICATE THE NUMBER OF NO.12 CONDUCTORS, UNLESS OTHERWISE NOTED. NO MARKS INDICATE TWO NO.12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED.			TRIPLE/ROTATION LIGHT FIXTURE WITH POLE	
	RACEWAY INSTALLED CONCEALED IN WALL AND/OR ABOVE CEILING			QUADRANT LIGHT FIXTURE WITH POLE	
	RACEWAY INSTALLED CONCEALED IN SLAB OR BELOW GRADE			TRIPLE LIGHT FIXTURE WITH POLE	
	RACEWAY INSTALLED EXPOSED			FLUORESCENT LIGHT FIXTURE, RECESSED/CLG. MTD./WALL MTD.	
	MULTIOUTLET RACEWAY ASSEMBLY			FLUORESCENT STRIP FIXTURE, CEILING MOUNTED	
	FLEXIBLE RACEWAY (6"-0" MAX LENGTH)			LIGHT TRACK AND LIGHT TRACK FIXTURES, QTY. AS SHOWN	
	CONDUIT UP / CONDUIT DOWN		(E)	MOTOR. "E" INDICATES FRACTIONAL HORSEPOWER.	
	CONDUIT STUB-UP ABOVE FINISHED FLOOR			NON-FUSIBLE DISCONNECT SWITCH. RATING/POLES/NEMA ENCLOSURE	
	CONDUIT TERMINATION (STUB-OUT)			FUSIBLE DISCONNECT SWITHC. RATING/POLES/FUSE SIZ/NEMA ENCL.	
	DUPLEX RECEPTACLE OUTLET	18"		MAGNETIC MOTOR STARTER. NEMA SIZE RATING / ENCLOSURE	
	DUPLEX RECEPTACLE OUTLET, BOTTOM SWITCHED	18"		CLOCK OUTLET	84" A.F.F.
	SINGLE RECEPTACLE OUTLET	18"		TELEVISION OUTLET - WALL MOUNTED	84" A.F.F.
	QUADRUPLEX RECEPTACLE OUTLET	18"		MICROPHONE JUNCTION BOX - FLOOR MOUNTED	
	DUPLEX RECEPTACLE OUTLET- ABOVE COUNTER	6"ABV.BCKSPLSH		MICROPHONE JUNCTION BOX - WALL MOUNTED	18" A.F.F.
	CHILD-PROOF/TAMPER PROOF RECEPTACLE			THERMAL DETECTOR - WALL MOUNTED	
/	G.F.C.I. DUPLEX RECEPTACLE OUTLET- WALL MOUNTED / ABOVE COUNTER	18" / 6"ABV.BCKSPLSH		INCANDESCENT OR FLUORESCENT WALL-WASH LIGHT FIXTURE, CEILING MOUNTED	
/	ISOLATED GROUND DUPLEX RECEPTACLE OUTLET	18"		THERMAL DETECTOR - CEILING MOUNTED	
/	TELEPHONE OUTLET, WALL MOUNTED / ABOVE COUNTER.	18" / 6"ABV.BCKSPLSH	/	INCANDESCENT, H.I.D., OR COMPACT FLUORESCENT LIGHT FIXTURE CEILING / WALL MOUNTED	
	TELEPHONE FLOOR OUTLET		UG	UNDERGROUND PULLGROUND	
	SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT TO BE CONNECTED.	18"	/	CEILING/WALL MOUNTED EXIT SIGN, DIRECTIONAL ARROWS AND NUMERIES OF FACES AS INDICATED ON PLANS	
$_{DS}$	DUAL TECHNOLOGY WALL-MOUNTED OCCUPANCY SENSOR SWITCH	48"	FAC	FIRE ALARM CONTROL PANEL	
$_{S}$	SINGLE POLE SINGLE THROW TOGGLE SWITCH	48"	CDACT	CELLULAR DIGITAL COMMUNICATOR/TRANSMITTER	
$_{S_2}$	DOUBLE POLE DOUBLE THROW TOGGLE SWITCH	48"		FIRE ALARM SPEAKER STROBE, WALL MOUNTED	12" B.C.
$_{S_3}$	THREE-WAY TOGGLE SWITCH	48"		FIRE ALARM SPEAKER, WALL MOUNTED	12" B.C.
$_{S_4}$	FOUR-WAY TOGGLE SWITCH	48"		FIRE ALARM MANUAL INITIATING STATION, WALL MOUNTED	48" A.F.F.
$_{S_M}$	MOTOR RATED SWITCH	48"	/ / [D]	SMOKE DETECTOR, WALL / CEILING / DUCT MOUNTED	12" BC
IC	DOOR INTERCOM STATION, PROVIDE 3/4" CONDUIT TO CABLE TRAY			HEAT DETECTOR, CEILING MOUNTED	
[D]	DUCT DETECTOR			FIRE ALARM FLOW SWITCH	
(P)	PRESSURE SWITCH			FIRE ALARM TAMPER SWITCH	
(V)	MANUFACTURERS POWER CONVERTER FOR DOORS		ML	MAGNETIC DOOR LOCK	48" A.F.F.
	DATA/TELEPHONE COMMUNICATION OUTLET - WALL MOUNTED	18"	C	FIRE ALARM ADDRESSABLE CONTROL MODULE	48" A.F.F.
	WALL MTD. DOUBLE TELEPHONE/DATA OUTLET - WALL MOUNTED	18"	ML	MAGNETIC DOOR LOCK DEVICE	48" A.F.F.
	FLOOR TELEPHONE/DATA OUTLET		PTE	PUSH TO ENTER/PUSH TO EXIT - NON-CONTACT / RECURRENT OF DOOR	48" A.F.F.
	DOORBELL - WALL MOUNTED	12" BC	(R)	MOTORIZED ROLL DOWN FIRE DOOR	
	WALL MOUNTED SPEAKER VOLUME CONTROL	48"	$_{S}$	DIMMER SWITCH	48"
	UNDERFLOOR DUCT		$_{S_3}$	3-WAY DIMMER SWITCH	48"
	JUNCTION BOX, WALL / CEILING / DUCT MOUNTED		/●	WALL/CLG. MOUNTED	12" BC/CLG
	2'X4' RECESSED FIXTURE - LAY-IN MOUNTED			COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECTING MEANS. NEMA SIZE RATING ENCLOSURE / FUSE RATING	
	2'X4' RECESSED FIXTURE WITH EMERGENCY DRIVER LAY-IN MOUNTED			MOTORIZED DOOR OPERATOR DEVICE	
	2'X2' RECESSED FIXTURE - LAY-IN MOUNTED			SECURITY SYSTEM KEYPAD	
	2'X2' RECESSED FIXTURE W/EMERGENCY BATTERY - LAY-IN MOUNTED			SECURITY CAMERA	
	EMERGENCY LIGHT - WALL MOUNTED	90" A.F.F.		120/208 VOLT PANELBOARD, FLUSH / SURFACE MOUNTED	
	1'X1' FLUORESCENT FIXTURE		/	277/480 VOLT PANELBOARD, FLUSH / SURFACE MOUNTED	
	LIGHT FIXTURE - CEILING MOUNTED		T	DRY TYPE TRANSFORMER	
	LIGHT FIXTURE OVERHEAD - WALL MOUNTED		M	METER	
	OUTSIDE DUPLEX RECEPTACLE - WALL MOUNTED	18" A.F.F.		TELEPHONE OR DATA - PLYWOOD BACKBOARD	
(M)	MOTOR		IC	INTERCOM DOOR STATION-PROVIDE 3/4" CONDUIT UP TO CABLE TRAY.	42" A.F.F.
PT	TRANSFORMER W/ PADS			GROUND PER NEC ARTICLE 250	
				MAGNETIC SMOKE DOOR HOLD OPEN DEVICE	
			[T]	DUCT DETECTOR REMOTE TEST SWITCH/ALARM INDICATOR	

NOTE: THERE IS A STANDARD LEGEND. ALL ITEMS SHOWN MAY NOT APPEAR ON DRAWINGS.

GENERAL NOTES:

1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. REFER TO THE DRAWINGS OF THE RESPECTIVE SYSTEMS PRIOR TO SUBMISSION OF BIDS FOR ADDITIONAL WORK WHICH MAY BE REQUIRED AS PART OF THIS WORK. NO ALLOWANCES WILL BE MADE FOR THE LACK OF COORDINATION BETWEEN DISCIPLINES OR SYSTEMS AND EQUIPMENT.
2. ATTENTION IS CALLED TO THE FACT THAT THIS IS A RENOVATION WITHIN AN EXISTING BUILDING. WHEN THE WORK IS FINISHED, THE ELECTRICAL INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT, COMPLETELY INTEGRATED WITH ALL THE EXISTING ELECTRICAL SYSTEMS. COORDINATION WITH THE ENGINEER IS REQUIRED FOR CHANGING OVER OF EXISTING LOADS. ALL EXISTING ELECTRICAL WORK REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF THE WORK SHALL BE EXTENDED, REROUTED, REPLACED, RECONNECTED OR OTHERWISE TO FIT INTO THE RENOVATED AREA AND LEFT IN SAFE WORKING ORDER. CONTRACTOR TO VERIFY LOAD OF EXISTING CIRCUITS. REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIAL WHICH IS IN THE AFFECTED SPACE AND WILL NOT BE RE-USED BY THE RENOVATION.
3. THE WORK SHALL BE COORDINATED WITH THE ENGINEERING DOCUMENTS FOR THE EXACT LOCATION OF LIGHT FIXTURES, EQUIPMENT, DEVICES, ETC. TO ASSURE PROPER PLACEMENT OF SAID DEVICES AND EQUIPMENT. WHERE A CONFLICT EXISTS BETWEEN ANY TWO DOCUMENTS, NOTIFY THE ENGINEER PRIOR TO ANY INSTALLATION FOR RESOLUTION.
4. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT BEING INSTALLED PRIOR TO INSTALLATION TO ASSURE THAT THE FEEDER, DISCONNECT, OVERCURRENT PROTECTION, ETC. MATCHES THE ACTUAL NAMEPLATE DATA AS SUPPLIED BY THE MANUFACTURER.
5. SPECIFIC REQUIREMENTS REGARDING MATERIALS, FORMWORK, AND THE WORK TO BE DONE ARE COVERED IN THE SPECIFICATIONS. THESE COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLANS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF EITHER SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ENGINEER.
6. REFER TO EQUIPMENT CUTSHEETS AND MANUFACTURER'S DATA FOR ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS OF ALL EQUIPMENT.
7. INSTALL OVERCURRENT PROTECTION AND BRANCH CIRCUIT WIRING PER [illegible] USING REQUIREMENTS FOR EQUIPMENT SERVED - REFER TO NAMEPLATE
8. PROVIDE START-UP ASSISTANCE TO OWNER PERSONNEL AND EQUIPMENT TECHNICIANS TO CONFIRM CORRECT PHASE ROTATION, PROPER OPERATION AND SEQUENCE, AND CONTROLS .
9. CONTRACTORSHALL COORDINATE ELEVATIONS AND PIPING SYSTEM SLOPES SUCH THAT DUCTWORK, PIPING, RACEWAY, CABLE TRAY, AND ASSOCIATED EQUIPMENT IS INSTALLED AT UNIFORM ELEVATIONS WITH MINIMAL OFFSET. PROVIDE COORDINATION DRAWING TO ENGINTER FOR REVIEW PRIOR TO EQUIPMENT ORDERS AND ROUGH-IN.

INDEX OF DRAWINGS

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E-303	FIRE ALARM PLANS, NOTES AND RISER DIAGRAM
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E-402	ELECTRICAL RISER DIAGRAM AND SCHEDULES
E-501	ELECTRICAL DETAILS

LB2:J29IGHTING FIXTURE SCHEDULE

	MANUFACTURER AND CATALOG NUMBER	TYPE	LAMPS #	WATTS	TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
B1	LED FLAT PANEL LITHONIA EPANL 2X4-4000LM-80CRI-35L	LED	NA	38	38	MVOLT	GRID	
B2	LET FLAT PANEL LITHONIA EPANL 2X-4000LM-80CRI-35L-E10WCP	LED	NA	38	38	MVOLT	GRID	
	LED FLAT PANEL LITHONIA EPANL-2X4-3000LM-80CRI-35K-MVOLT	LED	NA	23	23	MVOLT	GRID	
	LED FLAT P ANEL LITHONIA EPANL-2X4-3300L-80CRI-MVOL-E10WP	LED	NA	23	23	MVOLT	GRID	
B5	LED FLAT P ANEL LITHONIA CPANL-2X2-23/33/44LM 35 M4-PS1055CP FMC EMI	LED	NA	20/28/39	20/28/39	MVOLT	SURFACE	PROVIDE WITH EMERGENCY CONSTANT POWER BATTERY PACK
B6	LED FLAT P ANEL LITHONIA CPANL-2X2-23/33/44LM 35 M4	LED	NA	20/28/39	20/28/39	MVOLT	SURFACE	
C1	LED STRIP LIGHT LITHONIA ZL1D-L48-SMR-5000LM-FST-MVOLT-35K-80CRI-E7W-LBOZU-CS3W	LED	NA	41	41	MVOLT	PENDANT	PROVIDE 120V, 20A TWIST LOCK REC
W1	LED WALL PACK LITHONIA WSTLED-1-10A700/40K-SR3-VOLT	LED	N/A	35	35	MVOLT	WALL	LED ARCH CUTOFF WALL PACK PROVIDE INTEGRAL BATTERY BACK UP OPTION FOR FIXTURES OVER DOORS
X1	LED EDGE LIT EXIT ACUITY BRANDS LIGHTING # LRP-BA-1-RW-DA-120/277-ELN	LED	N/A	6	6	120	WALL	STICK ON CHEVRONS AS PER PLAN
X2	LED EDGE LIT EXIT ACUITY BRANDS LIGHTING # LRP-BA-2-RW-DA-120/277-ELN	LED	N/A	6	6	120	WALL	STICK ON CHEVRONS AS PER PLAN
NOTES	SEE SPECIFICATIONS FOR APPROVED BALLAST MANUFACTURERS. FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH A EMERGENCY BATTERY DRIVER PRIOR APPROVALS MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW.							

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Seal

SOUTH CAROLINA PROFESSIONAL ENGINEER 30048 JEREMY L. YEAGER

SOUTH CAROLINA BLV ELECTRICAL ENGINEERS INC. CERTIFICATE OF AUTHORIZATION

Client
ALLENDALE-FAIRFAX COUNTY SCHOOL DISTRICT

Project
ALLENDALE PRIMARY SCHOOL

Issued For
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MARCH 16, 2020

No.	Item	Dat

Key Plan

Sheet Title
ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES

E-101

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