ADDENDUM NO. 1

TO THE DRAWINGS AND SPECIFICATIONS FOR THE Harrison Elementary School-Preschool Addition & HVAC Upgrade Lexington, Kentucky RTA 2251 BG 23-124 FCPS Bid 56 -23 November 2, 2023

To All Plan Holders of Record:

This Addendum modifies bid documents dated October 23, 2023, for the above project and shall become part of said documents in the preparation of proposals and execution of work of the subject project.

General:

- 1. The pre-bid meeting **sign-in sheet is attached** to this addendum.
- 2. The last date for the Architect to receive items to be addressed in any addenda is November
- 3. 8, 2023 by 5:00 p.m.
- 4. Refer to the **attached Addendum #1- MEP** dated 11/02/2023 for Electrical items from KFI Engineers.
- 5. Clarification on Harrison Elementary School Clinic operating hours and schedule:
 - a) Clinic operates from 8:00 a.m. to 4:00 p.m., Monday through Friday.
 - b) The clinic typically extends its services beyond the last day of school in May/June and resumes operations approximately three weeks before the start of school in July/August. However, please note that these timings may be subject to change.
 - c) The clinic follows the school schedule for breaks such as fall break, spring break, and holidays.

Specifications:

1. Refer to Specification Section 102800 Toilet and Bath Accessories:

- a) Refer to Section 1.02, remove line-item A.2 Electric Hand Dryer.
- b) Refer to Section 2.01, A, remove mention of "excluding the electric hand dryer".
- c) Refer to Section 2.06 Electric Hand Dryer. Remove section from Specifications.

Drawings:

1. **Refer to sheet A2.1.**

a) Replace the Electrical Hand Dryers in Restrooms 130A, 131B, and 132B with Paper Towel Dispensers in all views on the sheet.

2. Refer to sheet A1.1

- a) Enlarged Plan:Replace the EHD toilet Accessory tag in Restrooms 130A, 131B, and 132B with APTD
- b) Toilet Accessories, Device, And Equipment Mounting Heights: Remove the electric hand dryer.
- c) Toilet Accessories legend: Remove the electrical hand dryer.

END OF ADDENDUM



2	rosstarrant architects	

November 1, 2023

04:00 p.m.

DATE:

TIME:

RE: Harrison Elementary School - Preschool Additi Lexington, Kentucky BG 23-124 RTA 2251 FCPS Bid #56-23	on & HVAC Upgrades
MEETING TYPE: Pre-Bid Conference	
IN ATTENDANCE:	REPRESENTING:
Sarah Lamere	RTA
Faye Bahrami	RTA
Loss Finneseth	FCPS-FD=C
Volan Hoppix	Varboe Construction twc
Janie Egli	Guardian
Clayton Nevill	Siemens
Jason Sanders	Total Yover Electrical Services
Scremy Roberts	DEX Construction Inc
ERNIE SIMPSON	JOSTAN LONSTRUCTION
SARAH (DETRE	7 DKI COSCIO
Sugar Colinson	VETERANDER
ORAG CRAFSZIG	Reference EDit-
Munde Sopri-Decarri	FCPS
Sarch Ar Clarves	FCPS -FD:C
<u>Coff F. 7cm</u>	FOS- FD-C
D an Eduarde	Sand A Const
A Spen YEbu ADS	Sand D Construction MANAgenet
	erre mobilecture e interior design

architecture • civil engineering • landscape architecture • interior design 101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046 www.rosstarrant.com





Date:11/02/2023Project:Harrison Elementary School Renovations

KFI Project Number: 23-0180.00

Addendum Number: 1

THIS ADDENDUM IS A CONTRACT DOCUMENT AND MAY APPLY TO ANY OR ALL CONTRACTS AND SUBCONTRACTS UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE ATTACHED DRAWINGS (IF ANY). ALL WORK REQUIRED BY THIS ADDENDUM SHALL BE IN COMPLETE ACCORD WITH THE CONTRACT DOCUMENTS AND SUBSEQUENT ADDENDA THERETO. THE ITEMS LISTED IN THIS ADDENDUM ARE NOT IN ANY ORDER IN REGARD TO THE DRAWINGS OR THE SPECIFICATIONS. ALL CONTRACTORS ARE CAUTIONED TO EXAMINE EACH AND EVERY ITEM OF THIS ADDENDUM.

THE FOLLOWING CHANGES OR CLARIFICATIONS TO THE PLANS & SPECIFICATIONS SHALL BE INCLUDED AS PART OF THE CONTRACT DOCUMENT

ELECTRICAL

SPECIFICATION CHANGES:

- 1. Section Number: 281000 Access Controls section revised
- 2. Section Number: 282000 Video Surveillance section revised

PLAN SHEET CHANGES:

- 3. Sheet E3-1: Removed hand dryer connections in all restrooms.
- 4. Sheet E6-1: Panelboard modifications for hand dryers.

END OF ADDENDUM

SECTION 281000 ACCESS CONTROL

PART 1 GENERAL

1.1 SECTION INCLUDES

- A Access control system requirements.
- B Access control units and software.
- C Access control point peripherals, including readers and keypads.
- D Accessories.

1.2 RELATED REQUIREMENTS

- A Section 087100 Door Hardware: Electrically operated door hardware, for interface with access control system.
- B Section 260526 Grounding and Bonding for Electrical Systems.
- C Section 260533.13 Conduit for Electrical Systems.
- D Section 260553 Identification for Electrical Systems: Identification products and requirements.

1.3 REFERENCE STANDARDS

- A NECA 1 Standard for Good Workmanship in Electrical Construction 2015.
- B UL 294 Access Control System Units Current Edition, Including All Revisions.

1.4 SUBMITTALS

- A See Section 013000 Administrative Requirements, for submittal procedures.
- B Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

1.5 WARRANTY

A See Section 017800 - Closeout Submittals, for additional warranty requirements.

ACCESS CONTROL

B Provide minimum a one year guarantee of the installed system against defects in material and workmanship. All labor and materials shall be provided at no expense to the owner. Guarantee period shall begin on the date of acceptance

PART 2 PRODUCTS

2.1 MANUFACTURERS

A Subject to compliance with requirements, provide products by the following:1. Sonitrol.

2.2 ACCESS CONTROL SYSTEM REQUIREMENTS

- A System Components:
 - 1. Power Supply
 - a. Shall be equivalent to Altronix IM-24V40VA
- B Provide products listed, classified, and labeled as suitable for the purpose intended.
 - 1. Access Control Units and Readers: Listed and labeled as complying with UL 294.

2.3 ACCESS CONTROL UNITS AND SOFTWARE

- A Provide access control units and software compatible with readers to be connected.
- B Unless otherwise indicated, provide software and licenses required for fully operational system.

2.4 ACCESS CONTROL POINT PERIPHERALS

- A Provide devices compatible with control units and software.
- B Provide devices suitable for operation under the service conditions at the installed location.
- C Readers and Keypads:
 - 1. General Requirements:
 - a. Provide readers compatible with credentials to be used.
 - b. Color: To be selected by Architect from manufacturer's available standard colors.
- D Door Position Switches:
 - 1. Magnetic Contacts: Encapsulated reed switch(es) and separate magnet; designed to monitor opened/closed position of doors.
 - 2. Contact Color: To be selected by Architect from manufacturer's available standard colors.
- E Door Locking Devices (Electric Strikes and Magnetic Locks): Comply with Section 087100.

2.5 ACCESSORIES

ACCESS CONTROL

- A Provide components as indicated or as required for connection of access control system to devices and other systems indicated.
- B Unless otherwise indicated, credentials to be provided by Owner.
 - 1. Provide credentials compatible with readers and control units/software to be used.
- C Provide cables as indicated or as required for connections between system components.
- D Provide accessory racks/cabinets as indicated or as required for equipment mounting.

PART 3 EXECUTION

3.1 INSTALLATION

- A Install access control system in accordance with NECA 1 (general workmanship).
- B Install products in accordance with manufacturer's instructions.
- C Wiring Method: Unless otherwise indicated, use wiring in conduit.
 - 1. Use suitable listed cables in wet locations, including underground raceways.
 - 2. Use suitable listed cables for vertical riser applications.
 - 3. Install wiring in conduit for the following:
 - a. Where required for rough-in.
 - b. Where required by authorities having jurisdiction.
 - c. Where exposed to damage.
 - d. Where installed outside the building.
 - e. For exposed connections from outlet boxes to devices.
 - 4. Conduit: Comply with Section 260533.13.
 - 5. Use power transfer hinges complying with Section 087100 for concealed connections to door hardware.
 - 6. Do not exceed manufacturer's recommended maximum cable length between components.
- D Provide grounding and bonding in accordance with Section 260526.
- E Identify system wiring and components in accordance with Section 260553.

3.2 SUMMARY

A Access Controls devices are to be an extension of the existing system. The existing access control system is a Sonitrol system. All new componets are to be compatible with the existing system. All new devices are to be wired back to the head end equipment.

END OF SECTION 281000

SECTION 282000 VIDEO SURVEILLANCE

PART 1 GENERAL

1.1 SECTION INCLUDES

A Cameras.

1.2 RELATED REQUIREMENTS

- A Section 260526 Grounding and Bonding for Electrical Systems.
- B Section 260529 Hangers and Supports for Electrical Systems.
- C Section 260553 Identification for Electrical Systems: Identification products and requirements.

1.3 REFERENCE STANDARDS

- A IEEE 802.3 IEEE Standard for Ethernet 2022, with Amendments (2023).
- B NECA 1 Standard for Good Workmanship in Electrical Construction 2015.
- C NECA 303 Standard for Installing and Maintaining Closed-Circuit Television (CCTV) Systems 2019.
- D NFPA 70 National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.4 SUBMITTALS

- A See Section 013000 Administrative Requirements, for submittal procedures.
- B Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

1.5 QUALITY ASSURANCE

- A Comply with the following:
 - 1. NFPA 70.
 - 2. Applicable TIA/EIA standards.

PART 2 PRODUCTS

VIDEO SURVEILLANCE

2.1 MANUFACTURERS

A Subject to compliance with requirements, provide products by the following:1. Sonitrol.

2.2 CAMERAS

- A Provide cameras and associated accessories suitable for operation under the service conditions at the installed location. Provide additional components (e.g. enclosures, heaters, blowers, etc.) as required.
- B Where not factory-installed, provide additional components (e.g. lenses, mounting accessories, etc.) as necessary for complete installation.
- C Network (IP) Cameras:
 - 1. Signal-to-Noise Ratio: Not less than 50 dB.
 - 2. Provide the following standard features:
 - a. Automatic electronic shutter.
 - b. Automatic gain control.
 - c. Automatic white balance.
 - d. Web-based interface for remote viewing and setup.

e.

- 3. The camera shall be equipped with an integral event functionality, which can be triggered by:
 - a. External input
 - b. Video Motion Detection
 - c. Audio detection
 - d. Schedule
 - e. Camera tampering
 - f. Local storage full
 - g. Response to triggers shall include:
 - 1) Notification, using TCP, SMTP or HTTP
 - 2) Image upload, using FTP, SMTP or HTTP
 - 3) Activating external output
 - 4) Recording to local storage
- 4. The camera shall provide at least 48 MB memory for pre & post alarm recordings.
- 5. Event functions shall be configurable via the web interface.
- 6. Network (IP) Indoor PTZ (Pan/Tilt/Zoom) Camera:
 - a. Image Sensor: 1/4 inch CMOS.
 - b. Resolution: Up to 1080p (1920 x 1080).
 - c. Frame Rate: 30 frames per second (fps) at all available resolutions.
 - d. Minimum Illumination: 1.5 lux.
 - e. Lens: auto iris, manual focus and zoom;f[1.7] High quality fixed 118 degree lens.
 - f. Power: Power over Ethernet IEEE 802.3.
- 7. Network (IP) Outdoor PTZ (Pan/Tilt/Zoom) Camera Type:
 - a. Image sensor: 1/4 inch CMOS.
 - b. Resolution: Up to 1080p (1920 x 1080).
 - c. Frame rate 30 frames per second (fps) at all available resolutions.
 - d. Minimum Illumination: 0.2 lux.
 - e. Lens: Auto iris, manual focus and zoom; f 1.2.High quality fixed 118 degree lens.

- f. Power: Power over Ethernet IEEE 802.3.
- g. Be manufactured with an all metal body, supporting operations between -30 C to +50 C (-22 F to +122 F) and be IP66 rated.

PART 3 EXECUTION

3.1 INSTALLATION

- A Install video surveillance system in accordance with NECA 1 (general workmanship) and NECA 303.
- B Install products in accordance with manufacturer's instructions.
- C Provide required support and attachment in accordance with Section 260529.
- D Provide grounding and bonding in accordance with Section 260526.
- E Identify system wiring and components in accordance with Section 260553.

3.2 FIELD QUALITY CONTROL

- A See Section 014000 Quality Requirements, for additional requirements.
- B Prepare and start system in accordance with manufacturer's instructions.
- C Adjust cameras to provide desired field of view and produce suitable images under all service lighting conditions.
- D Program system parameters according to requirements of Owner.
- E Test for proper interface with other systems.
- F Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.3 SUMMARY

A The new video surveillance devices are to be an extension of the existing video surveillance system. The existing system is a Sonitrol system. All new componets are to be compatibale with the existing system. All new devices and componets are to be wired back to the existing head end equipment.

END OF SECTION 282000



REVISIONS									
#	DATE	DESCRIPTION							
2	11/02/2023	ADDENDUM #1							
		I							

LIGHTING FIX	TURE SCHEDULE											
TYPE	DESCRIPTION	CIRCUIT VOLTAGE	MOUNTING	LAMP	LUMENS	CRI	COLOR TEMPERATURE	BALLAST/DRIVER	LENS/LOUVER	MANUFACTURER	CATALOG SERIES	NOTE
A1	2X4 RECESSED, EDGE-LIT FLAT PANEL, EXTRUDED ALUMINUM AND NARROW FRAME WITH MATTE WHITE FINISH	120 V	RECESSED, ACT CEILING	LED	4800 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA	2BLT4 48LHE ADSM 120V GZ1 LP840	
A1E	SAME AS A1 EXCEPT EMERGENCY.	120 V	RECESSED, ACT CEILING	LED	4800 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA	2BLT4 48LHE ADSM 120V GZ1 LP840	
E1	SINGLE FACE LED EXIT SIGN, DIE-CAST ALUMINUM HOUSING, BRUSHED ALUMINUM FACEPLATE WITH MATTE WHITE TRIM FINISH, UNIVERSAL DIRECTIONAL ARROWS SINGLE FACE ARROWS AS INDICATED ON DRAWINGS	120 V	UNIVERSAL MOUNT	LED	0 lm	N/A	4000 K	AC ONLY	WHITE DIE-CAST STENCIL FACE,RED LETTERS	LITHONIA	LQC 1 R	
E2	SINGLE FACE LED WALL EXIT SIGN, DIE-CAST ALUMINUM HOUSING, BRUSHED ALUMINUM FACEPLATE WITH MATTE WHITE TRIM FINISH, UNIVERSAL DIRECTIONAL ARROWS SINGLE FACE ARROWS AS INDICATED ON DRAWINGS	120 V	WALL MOUNT	LED	0 lm	N/A	4000 K	AC ONLY	WHITE DIE-CAST STENCIL FACE,RED LETTERS	LITHONIA	LQC 1 R	
S1	4' LED STRIPLIGHT, STEEL CHANNEL WITH TOOL-LESS CHANNEL COVER, DIFFUSE LENS, SUSPENDED, CHAIN HANG KIT, INTEGRAL 120V DRIVER, AND 5000 LUMEN 4000K LED ENGINE.	120 V	SUSPENDED	LED	5000 lm	80	4000 K	0-10V DIMMING TO 1%	ROUND DIFFUSED ACRYLIC LENS, NARROW DISTRIBUTION	LITHONIA	ZL1N L48 SMR 5000LM FST 120 40K 80CRI WH HC36	
X1	LED AREA LIGHT WITH CAST-ALUMINUM HOUSING AND DOOR FRAME, ACRYLIC LENSES, TYPE 3 BACK LIGHT CONTROL TYPE DISTRIBUTION, INTEGRAL DRIVER, AND 13,074 LUMENS AND 5000K LED ENGINE. INSTALL ON 25' SQUARE STRAIGHT STEEL POLE.A RCHITECT SHALL SELECT FINISH OF FIXTURE AND POLE FROM STANDARD FINISHES DURING SHOP DRAWING PHASE.	208 V	POLE	LED	13074 lm	80+	5000 K	LED DRIVER	SILICONE LENSES	LITHONIA	DSX1 LED P5 50K BLC3 208 SPA DF ** / SSS 25 5G VD **	
X1A	SAME AS XPM1 EXCEPT WITH TYPE 3 MEDIUM DISTRIBUTION.	208 V	POLE	LED	17974 lm	80+	5000 K	LED DRIVER	SILICONE LENSES	LITHONIA	DSX1 LED P5 50K T3M 208 SPA DF ** / SSS 25 5G VD **	
ZA	WALL MOUNTED ARCHITECTURAL WALL SCONCE WITH VISUAL COMFORT FORWARD THROW DISTRIBUTION WITH BI-LEVEL MOTION SENSOR. ARCHITECT SHALL SELECT FINISH DURING SHOP DRAWING PHASE.	120 V	EXTERIOR WALL	LED	3216 lm	80+	4000 K	LED DRIVER	FLAT ACRYLIC LENS	LITHONIA	WDGE2 SERIES	

LIGHTING SEQUENCE OF OPERATIONS NOTES:

1. <u>CORRIDORS/VESTIBULES:</u> LIGHTING SHALL BE CONTROLLED VIA TIME SCHEDULE WITH LOCAL OVERRIDE SWITCHES.

2. SINGLE RESTROOMS/JANITOR/CUSTODIAL CLOSET: LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSOR SWITCH.

3. STORAGE ROOMS: LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSOR. 4. MECHANICAL/ELECTRICAL/TELECOMMUNICATION ROOMS: LIGHTING SHALL BE CONTROL BY A WALL SWITCH.

5. <u>TYPICAL CLASSROOM:</u> LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE

LIGHTING. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS. <u>STAIRS:</u> LIGHTING SHALL REMAIN ON AT ALL TIMES. LIGHTING SHALL BE DIMMED TO 50% LEVEL UNTIL OCCUPANCY SENSOR SENSES OCCUPANCY AT WHICH TIME LIGHT LEVEL SHALL BE BROUGHT TO 100%. LIGHTS SHALL RETURN TO 50% LEVEL FIVE MINUTES AFTER LAST OCCUPANCY WAS SENSED.

GENERAL NOTES:

• IN ALL CLASSROOMS, OFFICES, BREAK ROOMS, AND ADMINISTRATIVE SPACES, ENTRY CONTROL STATIONS SHALL TURN LIGHTS ON TO 80% OF FULL OUTPUT. DIM UP CONTROL AND/OR PRESETS SHALL ALLOW LIGHTS TO BE BROUGHT TO FULL OUTPUT. • A GREEN BUTTON (MOMENTARY CONTACT MUSHROOM-STYLE SWITCH) IS PROVIDED IN EACH CLASSROOM/INSTRUCTIONAL AREA

TO ALLOW OCCUPANTS TO ELECT FOR AN "ECO FRIENDLY" ENERGY USE REDUCTION. THIS SWITCH SHALL PROVIDE A MOMENTARY CONTACT SIGNAL TO THE LIGHTING CONTROLS FOR THAT ROOM. WHEN THE BUTTON IS PRESSED, THE LIGHTING CONTROL SYSTEM SHALL DIM THE LIGHTS BY 20% FROM CURRENT SETTING AND MASK OUT TH EBUTTON FROM FURTHER LIGHTING CONTROL SYSTEM INPUTS FOR THE NEXT HOUR.

• WHERE DIMMING IS INDICATED TO BE PROVIDED, ADDITIONAL DIMMING CONDUCTORS MY BE REQUIRED FROM LIGHTING CONTROLLER TO FIXTURES. COORDINATE WITH LIGHTING CONTROL SYSTEM REQUIREMENTS AND PROVIDE AS REQUIRED. PROVIDE OCCUPANCY/VACANCY SENSORS, DIMMING BALLASTS/DRIVERS, CONTROLLERS, CONTROL STATIONS, ETC. AS REQUIRED FOR OPERATION AS DESCRIBED BY THE SEQUENCE OF OPERATION. EXTERIOR LIGHTS:

• POLE-MOUNTED AND BUILDING-MOUNTED LIGHT FIXTURES, INCLUDING EMERGENCY EGRESS FIXTURES, ARE TO BE CONTROLLED BY LIGHTING CONTACTORS. CONTACTORS SHALL BE CONTROLLED BY THE HVAC CONTROL SYSTEM. PROVIDE CONTACTOR WITH AN INTEGRAL MANUAL SWITCH TO ALLOW MANUAL CONTROL OF CIRCUIT FOR DIAGNOSTIC PURPOSES. CONTACTORS SHALL BE LOCATED ADJACENT TO PANELBOARDS. EMERGENCY EGRESS FIXTURES SHALL BE CONTROLLED WITH EMERGENCY TRANSFER

RELAY(S) SUCH THAT FIXTURES WILL ENERGIZE WHEN GENERATOR RUNS DURING A POWER OUTAGE.

EXISTING SWITCHBOARD SBD LOCATED IN MECHANCAL ROOM. SEE POWER PLAN FOR ROOM LOCATION.



GENERAL NOTES - SINGLE LINE

- OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL A. MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT. CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM
- ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS. C. REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL
- SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES. THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE F FOR ALL FEEDERS DESIGNATED "EQ".
- GROUNDING ELECTRODE CONDUCTORS SIZES ARE NOT F INDICATED ON THE SINGLE LINE DIAGRAM ARE. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.

FE	EDER AND BRANCH CIRCUIT SCHEDULE
NO.	CONDUCTORS THWN/THHN COPPER
20	4#12 & 1#12 GND. IN 3/4" CONDUIT.
30	4#10 & 1#10 GND. IN 3/4" CONDUIT.
40	4#8 & 1#10 GND. IN 1" CONDUIT.
45	4#6 & 1#10 GND. IN 1" CONDUIT.
50	4#6 & 1#10 GND. IN 1" CONDUIT.
60	4#4 & 1#8 GND. IN 1-1/4" CONDUIT.
70	4#4 & 1#8 GND. IN 1-1/4" CONDUIT.
80	4#3 & 1#8 GND. IN 1-1/4" CONDUIT.
90	4#2 & 1#8 GND. IN 1-1/4" CONDUIT.
100	4#1 & 1#6 GND. IN 1-1/2" CONDUIT.
110	4#1 & 1#6 GND. IN 1-1/2" CONDUIT.
125	4#1 & 1#6 GND. IN 1-1/2" CONDUIT.
150	4#1/0 & 1#6 GND. IN 2" CONDUIT.
175	4#2/0 & 1#6 GND. IN 2" CONDUIT.
200	4#3/0 & 1#6 GND. IN 2" CONDUIT.
225	4#4/0 & 1#4 GND. IN 2-1/2" CONDUIT.
250	4-250MCM & 1#4 GND. IN 3" CONDUIT.
300	4-350MCM & 1#3 GND. IN 3" CONDUIT.
350	4-500MCM & 1#2 GND. IN 3-1/2" CONDUIT.
400	4-500MCM & 1#3 GND. IN 3-1/2" CONDUIT.
500	4-250MCM & 1#2 GND. IN EACH OF TWO (2) 2-1/2" CONDUITS.
600	4-350MCM & 1#1 GND. IN EACH OF TWO (2) 3" CONDUITS.
700	4-500MCM & 1#1/0 GND. IN EACH OF TWO (2) 3-1/2" CONDUITS.
800	4-500MCM & 1#1/0 GND. IN EACH OF TWO (2) 3 1/2" CONDUITS.
900	4-350MCM & 1#2/0 GND. IN EACH OF THREE (3) 3" CONDUITS.
1000	4-400MCM & 1#3/0 GND. IN EACH OF THREE (3) 3-1/2" CONDUITS.
1200	4-350MCM & 1#3/0 GND. IN EACH OF FOUR (4) 3" CONDUITS.
	4-500MCM & 1#4/0 GND. IN EACH OF FOUR (4) 3-1/2" CONDUITS.
1600	4-500MCM & 1#4/0 GND. IN EACH OF FIVE (5) 3-1/2" CONDUITS.
	4-500MCM & 1-250MCM GND. IN EACH OF FIVE (5) 3-1/2" CONDUITS.
2000	4-500MCM & 1-250MCM GND. IN EACH OF SIX (6) 3-1/2" CONDUITS.
2500	4-500MCM & 1-350MCM GND. IN EACH OF SEVEN (7) 3-1/2" CONDUITS.
4000	4-500MCM & 1-500MCM GND. IN EACH OF ELEVEN (11) 3-1/2" CONDUITS.
	DESIGNATES THAT THE NEUTRAL CONDUCTOR IS NOT REQUIRED.
	INCREASE WIRE SIZE TO THE NEXT WIRE SIZE FOR BRANCH CIRCUITS OVER 150 FEET.

INCREASE WIRE SIZE TO NEXT WIRE SIZE FOR EVERY ADDITIONAL 150 FEET.

1L1 LOCATION: ELEC. EL01 PPLY FROM: SDB MOUNTING: SURFACE SURE TYPE: NEMA1	VOLTAGE: 208Y/120 PHASE: 3 WIRES: 4									SCCR. RATING: MAIN TYPE MAIN CB BUS RATING: 200 AMPS MCB RATING: 200 A			
IT DESCRIPTION	TRIP	POLES		Δ		3		С	POLES	TRIP	CIRCUIT DESCRIPTION	СКТ #	
POLE RECEPTACLE	20 A	1	180 VA	180 VA	-				1	20 A	EXTERIOR LIGHT POLE RECEPTACLE	2	
A	20 A	1			932 VA	2413						4	
M 132 - SMART TV	20 A	1					180 VA	2413	2	35 A	HVAC - CU-1	6	
121	20 A	1	1386	345 VA					_			8	
M 131 - SMART TV	20 A	1			180 VA	345 VA			2	20 A	EXTERIOR LIGHTING	10	
	00.4	0					1414	1440	1	20 A	RCPT CLASSROOM 121	12	
	20 A	2	1414	900 VA					1	20 A	RCPT CLASSROOM 121	14	
M 120	20 A	1			1440	1080			1	20 A	RCPT CLASSROOM 122	16	
M 120	20 A						1080	1080		20A	RCPI CLASSROOM 122	-18	
M 130 - SMART TV	20 A	1	180 VA			3 8						20	
						3 74 VX	m	h	سيب			anger p	
						3		774 VA		20 A	HVAC - ERU-2	24	
mmm	20 A	سير	*74* A	≁ ∓4 √ A	\dots				2	20 A		26	
		2			774 VA	774 VA			2	20 A		28	
	0 A	1					0 VA	0 VA	1	0 A	SPARE	30	
	0 A	1	0 VA	0 VA					1	0 A	SPARE	32	
	0 A	1			0 VA	0 VA			1	0 A	SPARE	34	
	0 A	1					0 VA	0 VA	1	0 A	SPARE	36	
	0 A	1	0 VA	0 VA					1	20 A	SPARE	38	
	20 A	1			0 VA	0 VA			1	20 A	SPARE	40	
	20 A	1					0 VA	0 VA	1	20 A	SPARE	42	
	TOTA	LOAD:	613	3 VA	871	1 VA	838	1 VA					
	TOTAL AMPS: 51 A			75 A 73 A			3 A	_					

CATION: UPPER MECH FROM: JNTING: SURFACE E TYPE: NEMA1	VOLTAGE: 208Y/120 PHASE: 3 WIRES: 4							SCCR. RATING: MAIN TYPE MAIN CB BUS RATING: 200 AMPS MCB RATING: 200 A				
ESCRIPTION	TRIP	POLES		A	I	3		0	POLES	TRIP	CIRCUIT DESCRIPTION	CKT #
			0 VA	0 VA								2
	60 A	3			0 VA 0 VA			3	20 A	EXISTING CIRCUIT	4	
							0 VA	0 VA				6
	20 A	2	0 VA	0 VA					2	20 A	EXISTING CIRCUIT	8
	2077	2			0 VA	0 VA						10
	20 A	1					0 VA	0 VA	1	20 A	EXISTING CIRCUIT	12
	20 A	1	0 VA	0 VA					1	20 A	EXISTING CIRCUIT	14
	20 A	1			0 VA	0 VA			1	20 A	EXISTING CIRCUIT	16
	20 A	1					0 VA	0 VA	1	20 A	EXISTING CIRCUIT	18
	20 A	1	0 VA	0 VA					1	20 A	EXISTING CIRCUIT	20
		1				0 VA			1	20 A	EXISTING CIRCUIT	22
	20 A	1					557 VA	540 VA	1	20 A	RCPT CORRIDOR C101	24
			0 VA	0 VA								26
	30 A	3			0 VA	0 VA			3	30 A	EXISTING CIRCUIT	28
							0 VA	0 VA	J			30
	ΤΟΤΔΙ		0	VA							1	
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