. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS 2. SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILINGS AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED. WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS, ROOF DECK, OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEBBINGS IS NOT ALLOWED, MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED, INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER.

OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED PENETRATIONS.

4. FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR UON. REFER TO THE TYPICAL

5. INSTALL EQUIPMENT IN A MANNER TO REMAIN ACCESSIBLE WITH REASONABLE MEANS BY THE OWNER FOLLOWING COMPLETION OF WORK. SPECIAL ATTENTION AND ADDITIONAL COORDINATION IS EXPECTED IN AREAS OF THE BUILDING WHERE THE CEILING AND STRUCTURE HEIGHTS HAVE SIGNIFICANT DIFFERENT ELEVATIONS. EQUIPMENT REQUIRING POSSIBLE FUTURE ACCESS SHALL BE INSTALLED SUCH THAT IT MAY BE SAFELY ACCESSED FROM A STANDARD STEP LADDER OR PERSONNEL LIFT SUITABLE FOR THE LOCATION AND CEILING HEIGHT, WITHOUT REMOVING OR DAMAGING THE CEILING GRID STRUCTURE. 6. ALL WIRING DEVICE COVERPLATES SHALL INDICATE PANELBOARD AND CIRCUIT SERVING THE DEVICE. UTILIZE CLEAR VINYL (BLACK LETTERING) IDENTIFICATION LABLES MANUFACTURED BY 3M COMPANY (OR APPROVED EQUIVALENT).

7. JUNCTION BOXES LOCATED ABOVE GRID CEILINGS SHALL BE LOCATED NO GREATER THAN 4-FEET ABOVE THE CEILING IN A LOCATION ACCESSIBLE VIA A LADDER FROM THE ROOM BELOW. 8. ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS.

9. PROVIDE A MINIMUM OF (3) SPARE 1" CONDUITS FROM RECESSED PANELBOARD, UP TO ACCESSIBLE CEILING SPACE 10. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.

11. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. 12. CONTRACTOR TO CONFIRM EXACT LOCATIONS OF EXISTING AND NEW EQUIPMENT AT THE START OF THE PROJECT AND NOTIFY THE ENGINEER AND ARCHITECT OF ANY ISSUES.

13. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

14. ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY LISTED. 15. SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.

16. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.

17. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS. 18. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TEST AND ADJUSTMENTS HAVE BEEN MADE. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.

19. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS.

20. COORDINATE ALL CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER DISCIPLINES, WITH CEILING, AND STRUCTURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.

21. FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING EQUIPMENT 22. CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST LOAD, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST LOAD DOES NOT EXCCED 5%.

23. UNDERGROUND UTILITIES/FEEDERS/BRANCH CIRCUITS/ETC. SHALL NOT BE ROUTED THROUGH OR WITHIN 25 FEET OF ANY AREAS DEDICATED FOR FUTURE BUILDING ADDITION. UNLESS NOTED OTHERWISE PROVIDE MINIMUM #8 AWG CONDUCTORS IN 1" CONDUIT(S) FOR ALL UNDERGROUND SITE POWER AND LIGHTING CIRCUITS. INCREASE CONDUCTOR AND RELATED CONDUIT SIZE AS NOTED OR OTHERWISE REQUIRED TO LIMIT VOLTAGE DROP TO LESS THAN 5% FOR THE ENTIRE LENGTH OF SYSTEM.

24. UNLESS NOTED OTHERWISE PROVIDE MINIMUM #8 AWG CONDUCTORS IN 1" CONDUIT(S) FOR ALL UNDERGROUND SITE POWER AND LIGHTING CIRCUITS. INCREASE CONDUCTOR AND RELATED CONDUIT SIZE AS NOTED OR OTHERWISE REQUIRED TO LIMIT VOLTAGE DROP TO LESS THAN 5% FOR THE ENTIRE LENGTH

25. THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED.

A. BURIED IN CONCRETE OR OUTDOORS - PVC WITH RIGID GALVANIZED STEEL ELBOWS

B. SERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS 26. SEISMIC PROTECTION FOR SEISMIC CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC USE GROUP AND SEISMIC DESIGN CATEGORY. ANY REQUIREMENTS FOR SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURER'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF SEISMIC RESTRAINTS REQUIRED FOR THE VARIOUS SYSTEM'S ELEMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS BASED ON THE RELATED SEISMIC CODE CRITERIA, THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT AND THE DISTANCE FROM STRUCTURE THAT THE ELEMENT WILL BE INSTALLED. IF REQUIRED BY LOCAL, STATE, FEDERAL CODES AND/OR OTHER AUTHORITY HAVING JURISDICTION (AHJ) THE CONTRACTOR SHALL SUBMIT DESCRIPTIVE CATALOG DATA OF SEISMIC RESTRAINTS, SHOP DRAWINGS SHOWING THE TYPES, LOCATIONS AND INSTALLATION DETAILS OF SEISMIC RESTRAINTS AND CALCULATIONS SHOWING THAT THE SEISMIC RESTRAINTS MEET THE SEISMIC REQUIREMENTS TO THE LOCAL AHJ FOR REVIEW AND APPROVAL. CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE

PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS. CALCULATIONS SHALL INCLUDE DEAD LOADS, STATIC SEISMIC LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT AND STRUCTURE. 27. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING COVER PLATES AT ANY UNUSED OPENINGS OR JUNCTION BOXES FOR ELECTRICAL AND LOW VOLTAGE BACK BOXES. 28. CONTRACTOR SHALL REFER TO PLANS IN THIS SET FOR ALL NECESSARY CONTROLS, LOCATIONS, BREAKER SIZES, AND OTHER INFORMATION PRIOR TO BID AND PURCHSE OF EQUIPMENT TO ENSURE CONNECTIONS ARE CORRECT. CONTRACTOR SHALL PROVDE AND INSTALL BOXES, CONDUIT, CONDUCTORS, OCPD'S, CONTROLS, AND OTHER NECESSARY APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. INCLUDE ALL COSTS IN BASE BID.

29. WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE HOUR RATED "TENT" FOR FIXTURE 30. PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES.

31. CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE. 32. COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL WALL FINISHES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE

ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITCTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER. 33. ELECTRICAL CONTRATOR SHALL VERIFY CHEVRON DIRECTIONS OF ALL EXIT SIGNS PRIOR TO ORDERING.

34. FOR BATTERY FED EMERGENCY LIGHTS: PROVIDE EMERGENCY BALLAST. PROVIDE "HOT" WIRE TO EMERGENCY BALLAST. SWITCH FIXTURE AS INDICATED ON PLANS. 35. ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL REMAIN IN RESPECTIVE PANELBOARD FOR FUTURE USE UNLESS NOTED OTHERWISE.

36. COORDINATE AND PROVIDE DIMMER SWITCHES RATED FOR AND COMPATABLE WITH INTENDED LIGHT FIXTURE(S) TO BE CONTROLLED. CIRCUITS CONTROLLED WITH LINE-VOLTAGE DIMMER SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS.

37. ALL RECEPTACLES SHALL BE GROUNDING TYPE.

38. ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.

39. COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF MECHANICAL EQUIPMENT 40. COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

41. ALL OUTLETS IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS. THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED IN THE NEC. ALL RECEPTACLES SUPPLIED THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE MARKED "GFCI PROTECTED."

42. DO NOT USE MULTI-CONDUCTOR CIRCUITS, WITH A SHARED NEUTRAL, FOR ANY GFCI CIRCUIT BREAKER OR RECEPTACLE CIRCUIT. 43. CONTRACTOR SHALL INTERCONNECT MINI SPLIT FAN UNITS AS REQUIRED WITH ASSOCIATED CONDENSING UNIT(S). CONTRACTOR SHALL PROVIDE AND INSTALL DISCONNECT SWITCH, CONDUCTORS, AND OTHER NECESSARY APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PER MANUFACTURERS RECOMMENDATIONS.

44. CONTRACTOR SHALL NOT SHARE NEUTRALS.

45. CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER RESISTANT RECEPTACLES AS REQUIRED PER NEC 406.12.

GENERAL FIRE ALARM NOTES

VOICE ACTIVE FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL. ALL EXISTING FIRE ALARM SYSTEMS IN THE EXISTING BUILDING SHALL BE BROUGHT UP TO THE LATEST CODE COMPLIANCE.

INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES. DEVIATIONS FROM ENGINEERS LAYOUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED

PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE

PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM

AUDIBLE NOTIFICATION DEVICES SHALL SOUND UNTIL SILENCED AT THE CONTROL PANEL OR REMOTE ANNUNCIATOR AS REQUIRED. VISUAL ALARM IS DISPLAYED UNTIL DEVICE IS RETURNED TO ITS NORMAL POSITION OR SUPERVISORY CONDITION IS CLEARED

FORWARD COMPLETED FIRE ALARM CERTIFICATE OF COMPLETION TO THE

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PROVIDE CONNECTION TO EXTERIOR WATERFLOW ALARM BELL AS

PROVIDE NOTIFICATION, INITIATING AND MONITORING DEVICES AS INDICATED ON THE DRAWINGS. FIRE ALARM DEVICES SHALL BE OF ONE MANUFACTURER AND SHALL BE LISTED FOR USE WITH THE FIRE ALARM CONTROL PANEL

NOTIFICATION DEVICES AS REQUIRED. CONNECT TO FIRE ALARM SYSTEM THE FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR LOCATIONS SHOWN SHALL BE COORDINATED WITH THE FIRE DEPARTMENT AND AHJ PRIOR TO INSTALLATION

10 PROVIDE NOTIFICATION APPLIANCE CIRCUIT PANEL(S) TO POWER

12 PROVIDE DEDICATED CONNECTION OF THE FIRE ALARM SYSTEM TO A UL LISTED CENTRAL STATION

13 PROVIDE KNOX BOX FOR FIRE DEPARTMENT ACCESS. CONNECT TAMPER SWITCH TO FIRE ALARM SYSTEM AS REQUIRED

| 14 | AIR HANDLING SYSTEMS THAT ARE MONITORED SHALL SHUTDOWN AND REMAIN DOWN UNTIL MANUALLY RESET

15 ROOF TOP AIR DISTRIBUTION SYSTEMS EXCEEDING 2,000 CFM: PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR AIR HANDLING UNIT SHUTDOWN AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MONITOR MODULE FOR SUPPLY AIR DUCT DETECTOR AND RELAY/MONITOR MODULE FOR RETURN AIR DUCT DETECTOR. REFER TO MECHANICAL SHEETS FOR AIR HANDLING UNIT AND DUCTWORK LAYOUT AND DETAILS

16 DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP

FIRE ALARM INSTALLATION NOTES

SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 72 AND LOCAL CODES AND REGULATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION INTERFACE WITH AND MONITOR ALL FIRE SUPPRESSION SYSTEM DEVICES INCLUDING (BUT NOT LIMITED TO) SPRINKLER FLOW AND TAMPER SWITCHES WIRE AND CABLE SHALL BE UL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760. SIGNALING LINE CIRCUITS TO BE TWISTED, SHIELDED PAIR, SIZED AS RECOMMENDED BY SYSTEM MANUFACTURER. NON-POWER-LIMITED CIRCUITS TO BE SOLID-COPPER CONDUCTORS WITH 600-V RATED, 75 DEG C, COLOR-CODED INSULATION.

9.1 LOW-VOLTAGE CIRCUITS: NO. 16 AWG. MINIMUM 9.2 LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM INSTALL AND TEST SYSTEMS ACCORDING TO NFPA 72. COMPLY WITH NECA 1 TEST ALL SYSTEM DEVICES FOR PROPER OPERATION IN THE PRESENCE OF THE AHJ AND OTHER OFFICIALS INSPECTING THE FIRE ALARM SYSTEM IF REQUIRED BY THE LOCAL AHJ, EQUIPMENT DATA SHEETS AND BATTERY CALCULATIONS IN ACCEPTANCE WITH NFPA 72 SHALL BE PERFORMED BY

THE FIRE ALARM SYSTEM MANUFACTURER/INSTALLER TO MATCH EQUIPMENT TO BE INSTALLED SYSTEM INSTALLER SHALL BE A LICENSED FIRE ALARM CONTRACTOR IN THE RESPECTIVE STATE OF THIS PROJECT

FIRE ALARM CONTROL PANEL SHALL BE MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, UL 864 LISTED, AND DESIGNED TO TRANSMIT ALARM, TROUBLE, AND SUPERVISORY SIGNALS TO A UL LISTED CENTRAL STATION THROUGH A DIGITAL ALARM COMMUNICATOR TRANSMITTER WITH (1) ETHERNET PORT CONNECTION AND (1) DEDICATED TELEPHONE LINE PROVIDE 120VAC POWER THROUGH DEDICATED LOCKING BREAKER AT

10 GROUND THE FACP AND ALL ASSOCIATED CIRCUITS INSTALL A #6 AWG GROUND WIRE FROM THE TELE-COMMUNICATIONS

POWER PANEL

EQUIPMENT GROUNDING POINT TO THE FACP SYSTEM SHALL INCLUDE 24V DC POWER SYSTEM WITH SEALED LEAD CALCIUM BATTERIES AND AUTOMATIC BATTERY CHARGER IN ACCORDANCE WITH NFPA 72

PROVIDE (1) IP CONNECTION TO CUSTOMERS INTERNET NETWORK AND (1) DEDICATED TELEPHONE LINE TERMINATED WITH (1) RJ-31X MODULAR OUTLET AT DACT LOCATION

FIRE ALARM LEGEND CARBON MONOXIDE DETECTOR

SMOKE DETECTOR **HEAT DETECTOR**

WALL/CEILING MOUNT VOICE STROBE ☐ ☐ WALL/CEILING MOUNT VISUAL STROBE

PULL STATION ANN FIRE ALARM ANNUNCIATOR PANEL

FACP | FIRE ALARM CONTROL PANEL FS SPRINKLER FLOW SWITCH

SPRINKLER TAMPER SWITCH MM

FIRE ALARM MONITOR MODULE PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH CM FIRE ALARM CONTROL MODULE

OUTLET BOX AT 8" ABOVE COUNTER (UNO) WITH (1) 1" CONDUIT (WITH PULL STRING) ROUTED TO MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY

PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT +18" (UNO) WITH (1) 1" CONDUIT (WITH PULL STRING) ROUTED TO ACCESSIBLE CEILING SPACE, PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS

ELECTRICAL LEGEND

LOW VOLTAGE / SECURITY (cont.) PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH WIRING CONCEALED IN CEILING OR WALLS UNO. ALL WIRE IS NUMBER #12 AWG MINIMUM. OUTLET BOX IN CEILING. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. WIRING BY OTHERS. TELEVISION: PROVIDE 4"X4" JUNCTION BOX WITH (2) EXPOSED RACEWAY 1" CONDUITS (WITH PULL STRINGS) ROUTED TO \(\text{TV}\) ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. CONFIRM HEIGHTS UNDERGROUND RACEWAY. FOR TYPE, SIZE,

WITH ARCHITECT PRIOR TO ROUGH-IN. - - - - → CONDUCTORS, AND ARRANGEMENT REFER TO NOTES OR SCHEDULE CARD READER: REFER TO SYSTEM PLANS AND SWITCHES SPECIFICATIONS. AT EACH DOOR WITH A CARD READER PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS REQUIRED TO SWITCH MOUNTED AT +48". SINGLE POLE UNO. \$* LOWER CASE LETTER, WHEN PRESENT, INDICATES MAKE A COMPLETE OPERATIONAL SYSTEM. WHERE REQUIRED, BACK TO BACK 2"X4" BOXES ARE FIXTURES CONTROLLED.

SWITCH. PROVIDE POWER TO THE LOCK SYSTEM IN CEILING MOUNTED DUAL TECHNOLOGY THE I.T. ROOM WHERE NEEDED BY CONTRACTOR OCCUPANCY SENSOR WITH SPARE DRY CONTACTS. INSTALLING SYSTEM. LUTRON LOS C SERIES OR EQUAL. CEILING MOUNTE SPEAKER: PROVIDE 4"X4" \$2 DOUBLE POLE SWITCH JUNCTION BOX WITH 1" CONDUITS (WITH PULL (S) STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. \$3 3-WAY SWITCH CONFIRM LOCATIONS WITH OWNER AND/OR LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.

SECURITY CAMERA: PROVIDE 4"X4" JUNCTION BOX DIMMER SWITCH. DIMMER SHALL BE COMPATIBLE WITH 1" CONDUITS (WITH PULL STRINGS) ROUTED WITH FIXTURE DIMMING TECHNOLOGY. TO ACCESSIBLE CEILING SPACE. CONFIRM LOCATIONS WITH OWNER AND/OR LOW VOLTAGE FAN SPEED CONTROL WITH INTEGRAL DIMMER CONTRACTOR PRIOR TO ROUGH-IN.

ALLOWED FOR CARD READER AND PUSH TO EXIT

DOOR HOLD OPEN: AT EACH DOOR WITH HOLD \$K KEYED SWITCH OPEN DEVICE PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS MOTOR RATED SWITCH. COORDINATE MOTOR WITH REQUIRED TO MAKE A COMPLETE OPERATIONAL DRAWINGS AND ADJUST AS REQUIRED. SYSTEM. PROVIDE AND INSTALL ALL NECESSARY \$OS OCCUPANCY SENSOR SWITCH WITH DUAL TECHNOLOGY CONNECTIONS AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES AND PROVIDE ALL

ELECTRICAL ABBREVIATIONS DUPLEX RECEPTACLE (NEMA 5-20R)

DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED 8" ABOVE COUNTER ABOVE THE COUNTERTOP. AFCI ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR RECEPTACLE (NEMA 5-20R) WITH USB CHARGING AFG ABOVE FINISHED GRADE PU PORTS (DUPLEX OR QUADRUPLEX) AHJ AUTHORITY HAVING JURISDICTION AIC AMPERE INTERRUPTING CAPACITY GFI DUPLEX RECEPTACLE (NEMA 5-20R) ALUMINUM ARCHITECT

CR

DEMO

DISC

ELEC

ELEV

EM

EMT

EP

GFCI

GRC

HVAC

JBOX

KVA

LTG

MAX

MCB

MLO

MIN

MC

MCC

NEC

NTS

PNL

PWR

SWBD

TTB

TYP

UG

UNO

WR

XFMR

OCPD

NEMA

KW

CARD READER

DISCONNECT

ELECTRICAL

EMERGENCY

FEET / FOOT

HORSE POWER

JUNCTION BOX

KILOWATT

LIGHTING

MAXIMUM

MINIMIIM

KILOVOLT AMPERE

MAIN LUGS ONLY

ASSOCIATION

NIGHT LIGHT

PHASE

PANEL

POWER

TYPICAL

QUANTITY

SWITCHBOARD

UNDERGROUND

TAMPER RESISTANT

NOT TO SCALE

NOT IN CONTRACT

MAIN CIRCUIT BREAKER

MECHANICAL CONTRACTOR

NATIONAL ELECTRICAL CODE

NATIONAL ELECTRICAL MANUFACTURERS

OVER CURRENT PROTECTION DEVICE

TELEPHONE TERMINAL BACKBOARD

UL LISTED WEATHERPROOF NEMA RATED

UNDERWRITERS LABORATORY

UNLESS NOTED OTHERWISE

UTILITY TRANSFORMER

WEATHER RESISTANT

VOLT OR VOLTAGE

VOLT AMPERE

TRANSFORMER

MOTOR CONTROL CENTER

ISOLATED GROUND

GROUND

ELECTRICAL METALLIC TUBING

ELECTRICAL CONTRACTOR

GENERAL CONTRACTOR

GALVANIZED RIGID CONDUIT

EXPLOSION PROOF

ELECTRICAL NONMETALLIC TUBING

GROUND FAULT CIRCUIT INTERRUPTER

HEATING / VENTILATING / AIR CONDITIONING

ELEVATOR

EXISTING

GFI DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AMERICAN WIRE GAUGE BLDG BUILDING 8" ABOVE COUNTERTOP. CONDUIT CIRCUIT BREAKER → QUADRUPLEX RECEPTACLE (TWO NEMA 5-20R) CIRCUIT

SPECIAL RECEPTACLE. REFER TO MANUFACTURER FOR NEMA TYPE. RECEPTACLE TYPE. AND CONFIGURATION. FLOOR BOX WITH DATA: LEGRAND WIREMOLD SERIES RFB4E-OG OR RFB6E-OG WITH EVOLUTION COVER. ROUTE QUANTITY (2) - 1" CONDUITS FOR DATA FROM FLOOR BOX TO NEAREST ACCESSIBLE

RECEPTACLES

WALL SPACE STUBBED ABOVE ACCESSIBLE CEILING. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: LEGRAND 6AT SERIES. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS UNO. FLOOR BOX: HUBBEL 3SFBSS WITH 3SFBC COVER. EC SHALL ROUTE A 1"C FOR FLOOR BOX TO

NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: HUBBELL PT2X2 SERIES. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS UNO.

SIMPLEX RECEPTACLE (NEMA 5-20R) (f) CEILING MOUNTED RECEPTACLE(NEMA 5-20R)

DIRECT EQUIPMENT CONNECTION. VERIFY CONNECTION DETAILS WITH MANUFACTURER

POWER

POWER PANEL: REFER TO RISER DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION. 4"x4" JUNCTION BOX: ADJUST FINAL LOCATIONS AS REQUIRED EMERGENCY POWER OFF SWITCH: CONTRACTOR

SHALL PROVIDE AND INSTALL EMERGENCY POWER OFF SWITCH CONNECTED TO AN ASSOCIATED SHUNT-TRIP BREAKER. CONTRACTOR SHALL PROVIDE AND INSTALL SWITCH, CONTROL WIRING, AND OTHER ASSOCIATED APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

EQUIPMENT DISCONNECT. PROVIDE NEMA RATING PER INSTALLED CONDITIONS AS REQUIRED PER NEC.

LOW VOLTAGE / SECURITY

ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG OTHERS

ON EXPOSED CONDUIT ENDS. WIRING BY OTHERS.

ubli CONNECTIONS AS REQUIRED. D COMMUNICATIONS DEMOLITION / DEMOLISH

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ISSUE DATE: 2023.12.07

REVISIONS:

NOTES AND LEGEND



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REVISIONS:

OVERALL POWER PLAN

POWER AND DATA FOR TV. COORDINATE TV BOX LOCATION WITH FINAL TV MOUNTING BRACKET AND ADJUST AS REQUIRED. TV BOX TO BE TYPE LEGRAND TV3WTVSSW OR

PROVIDE 1" UNDERGROUND CONDUIT FROM GENERATOR CONTROLS TO GENERATOR ANNUNCIATOR PANEL IN WORK ROOM 1031. VERIFY EXACT LOCATION OF ANNUNCIATOR PANEL WITH OWNER PRIOR TO ROUGH-IN.







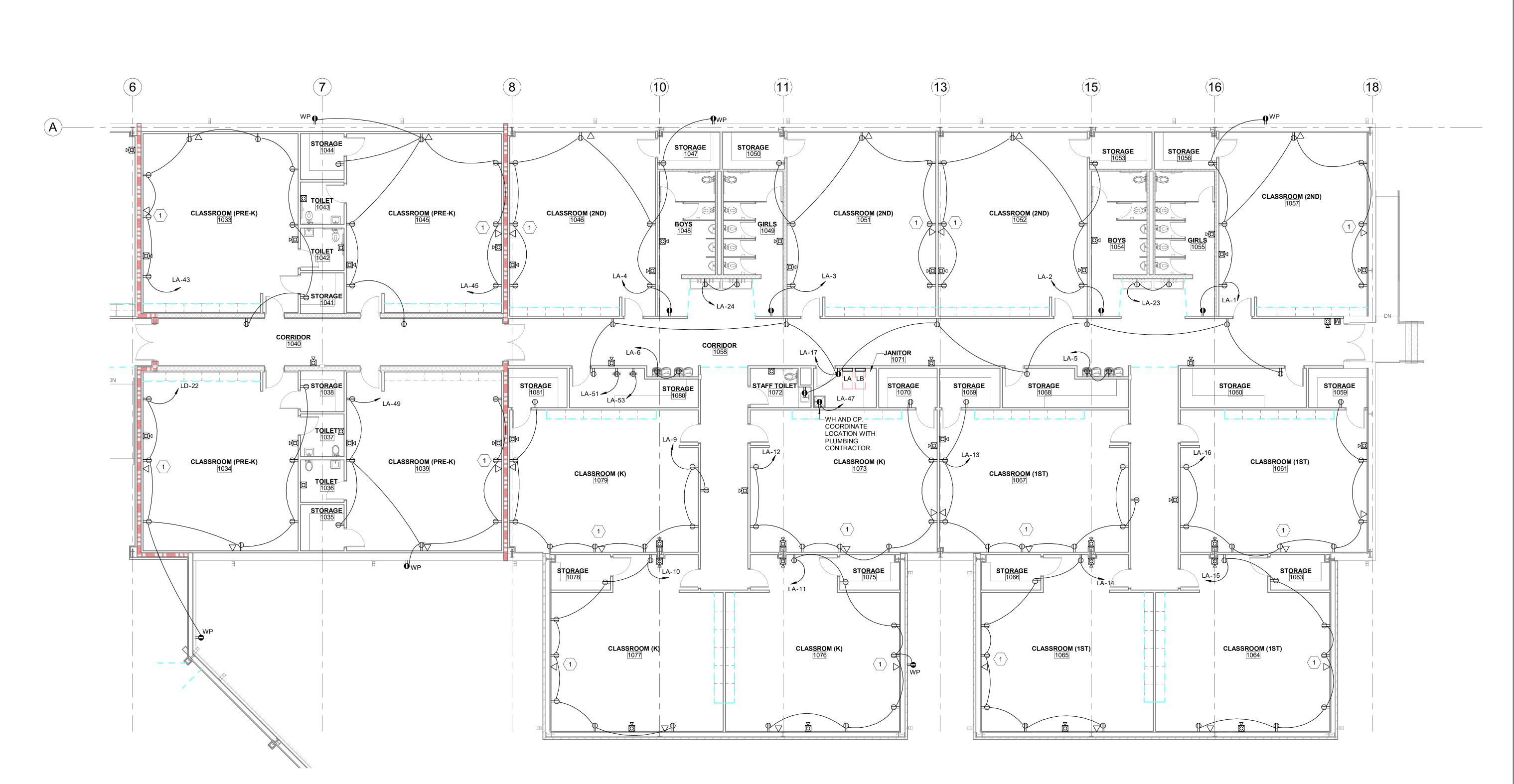
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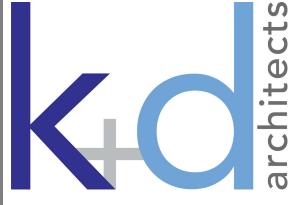
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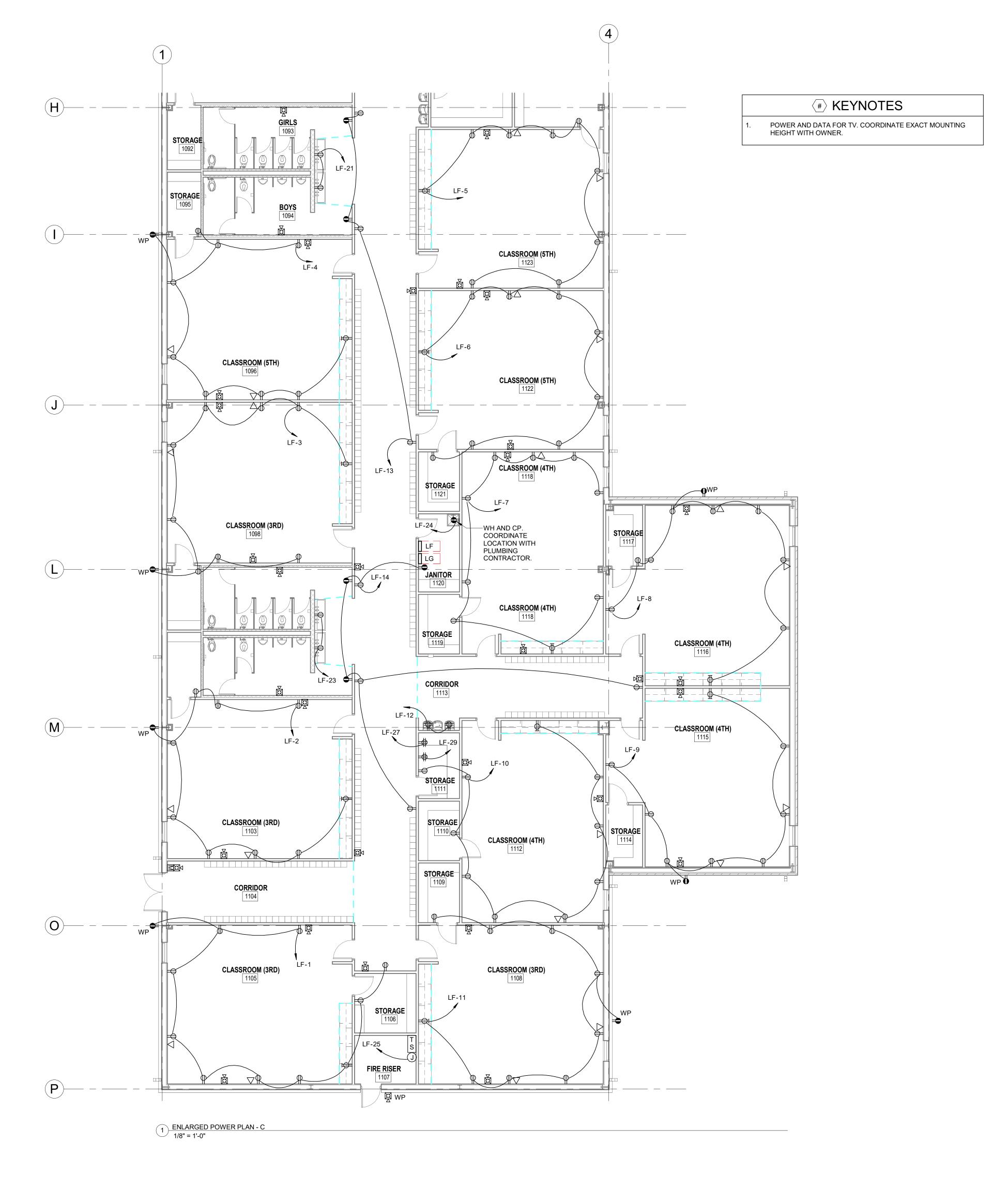
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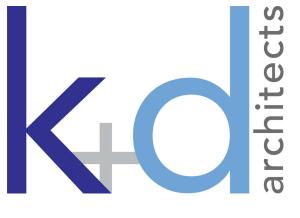
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1 OVERALL MECHANICAL POWER PLAN 1/16" = 1'-0"



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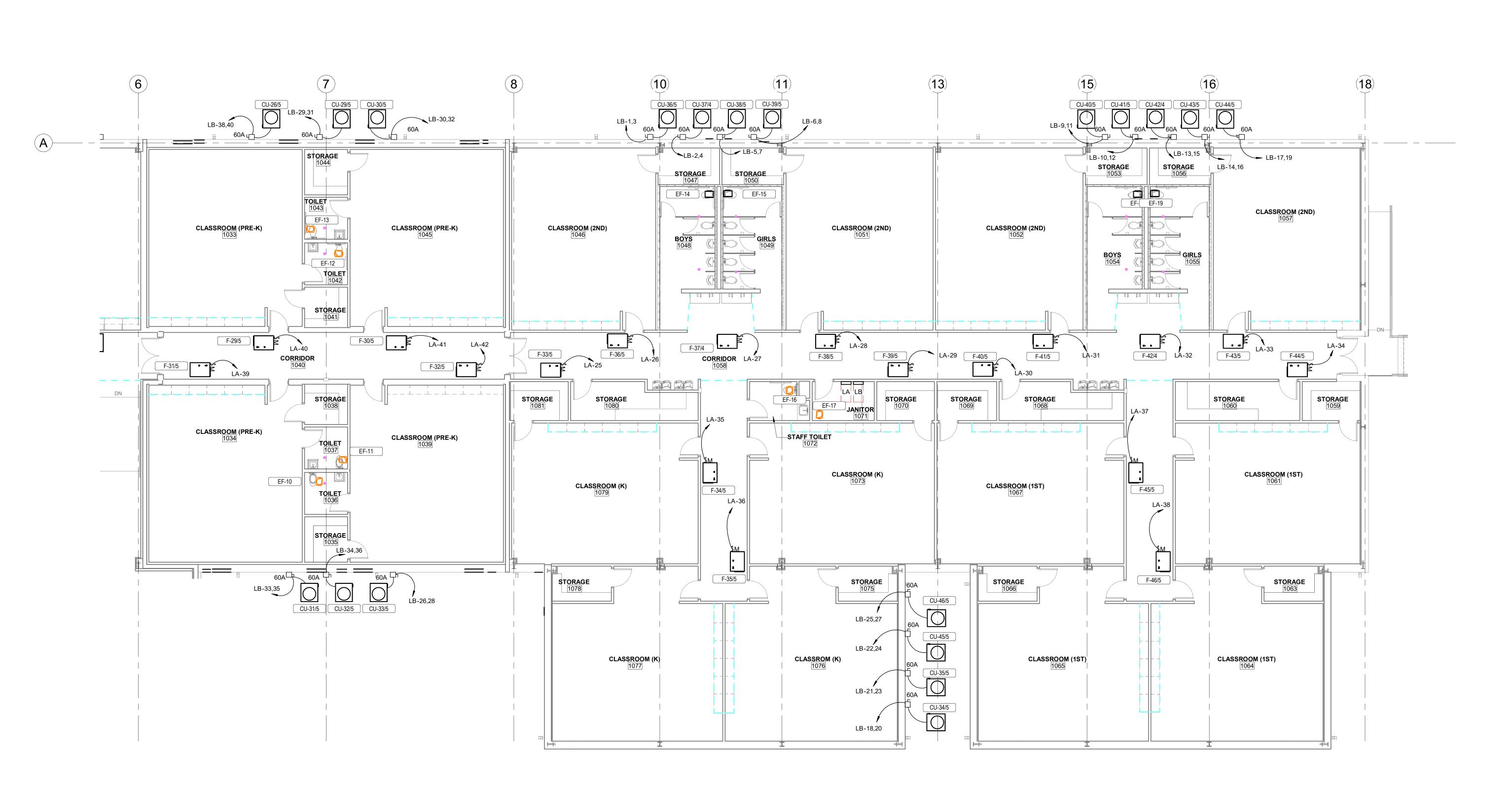
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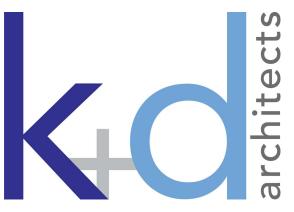
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ENLARGED MECHANICAL POWER PLAN

E105



1) ENLARGED MECHANICAL POWER PLAN - A 1/8" = 1'-0"



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GENERAL NOTES

EXHAUST FAN SHALL BE CIRCUITED WITH LIGHTS SERVING AREA. SEE MECHANICAL SHEETS FOR CONTROL TYPE.

Sequoyah Public Schools Elementary School



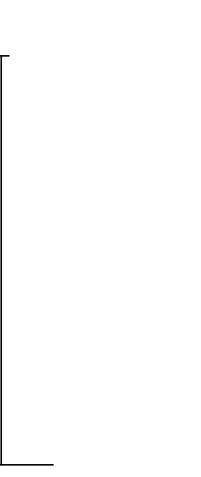
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STORAGE 1044

25 KW INVERTER INVERTER INVERTER SECTION SECTION

MYERS MODEL 1-G-25-S-BA20(12)-BCF-2YW-5YP OR EQUAL. CONTRACTOR SHALL PROVIDE AND INSTALL BATTERY SECTIONS, POWER CONNECTIONS, BREAKERS, AND OTHER NECESSARY APPURTENANCES

REQUIRED TO PROVIDE A COMPLETE AND

OPERATIONAL SYSTEM PER MANUFACTURERS

RECOMMENDATIONS. INCLUDE ALL COSTS IN BASE BID.

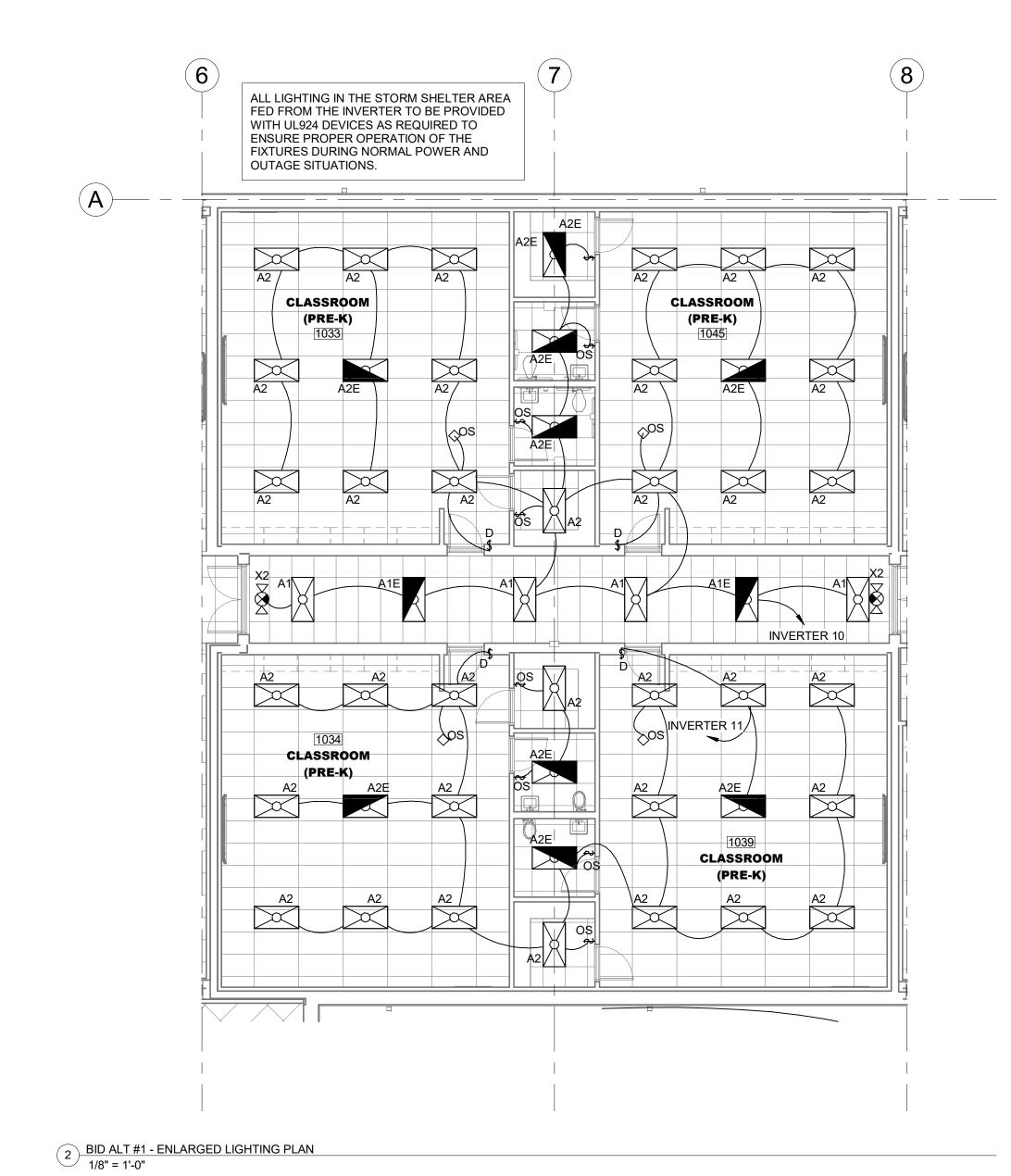
3 ELECTRICAL RISER NTS

BUILDING EXTERIOR

PANEL MDP 1600 AMP 208 VOLT 3-PHASE

NEMA 3R

Notes	Supply From: Mounting: Enclosure:	STORAGE 1044 MDP SURFACE	ER			Pl	Volts: nases: Wires:	3	_	Έ				A.I.C. Rating: FULL\ Mains Type: MLO	Y RATED	
СКТ	Load Name	СВ	Р	Wire		A		В		c	Wire	P	СВ	Load	l Name	СКТ
1	SF-1	20	1		864	864						1	20	SF-2		2
	SF-3	20	1				864	864				1		SF-4		4
	EF-20	20	1						864	864		1		EF-21		6
	EF-22	20	1		864	864						1		EF-22		8
	EF-24	20	1				864	1056				1		CLASS ROOM LIGH	ITING	10
11	CLASS ROOM LIGHTING	20	1						1344	480		1	20	OAD-1,2,3,4		12
		Т	otal	I Load: Amps:	2	56 VA 29 A	3′	8 VA 1 A	30	2 VA						
	Classification	Co		ected Lo	ad		and Fa		Estir		Deman	d		Panel	Totals	
Powe	r		69	912 VA		1	00.009	%		6912	VA					
Rece	otacle		13	344 VA		1	00.009	%		1344	VA			Total Conn. Load:	10656 VA	
														Total Est. Demand:	10656 VA	
													•	Total Conn. Current:	30 A	
														Total Est. Demand		
									+			+				

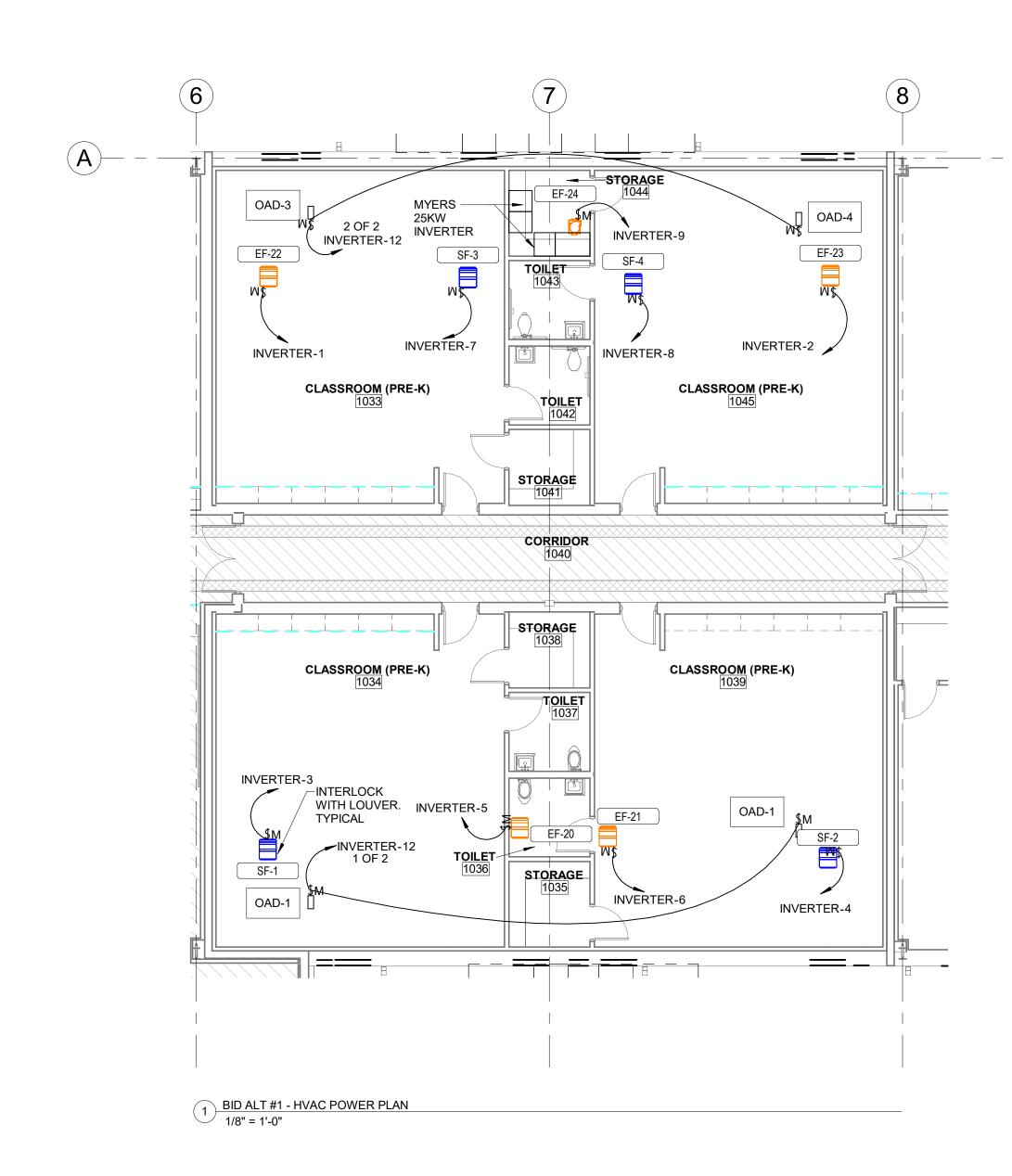


REFER TO FEEDER SCHEDULE SHEET

E301.

-PROVIDE 90A/3P

CIRCUIT BREAKER



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ELETRICAL BID ALT #1

1 Lighting Plan 1/16" = 1'-0"



quoyah Public Schools ementary School

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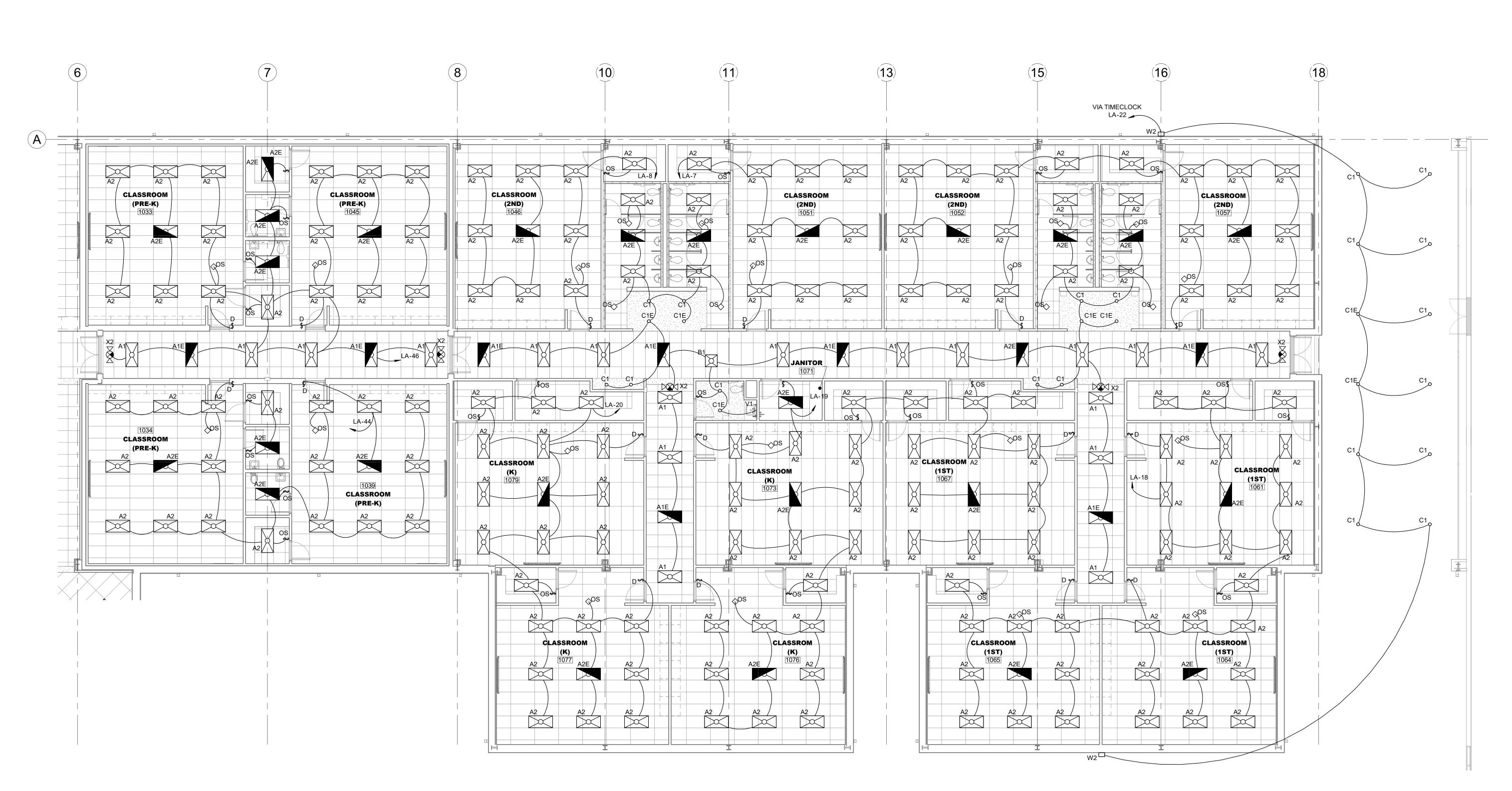
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OVERALL LIGHTING PLAN



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Flementary School

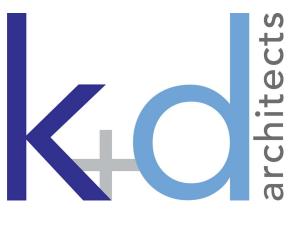
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SCHEDULES AND RISER

FEEDER SCHEDULE **SELECT ONE** SELECT ONE **EQUIPMENT** SUSE RATED **EQUIPMENT** SUSE RATED AMPERAGE SETS OF CONDUIT CONDUCTOR AMPERAGE SETS OF CONDUIT CONDUCTOR GROUND GROUND GROUND GROUND CONDUIT SIZE QTY/SIZE CONDUIT SIZE QTY/SIZE QTY/SIZE QTY/SIZE QTY/SIZE QTY/SIZE 15A (1) (4) #12 (1) #12 225A (1) 2 1/2" (4) #4/0 (1) #4 (1) #2 20A (1) 3/4" (4) #12 (1) #12 (1) (4) #250 KCMIL (1) #4 (1) #2 25A (1) (4) #10 (1) #10 (2) (4) #1/0 (1) #2 (1) #4 (1) 3/4" (4) #10 (1) #10 (2) 2 1/2" (4) #3/0(1) #3 (1) #1/0 40A 3/4" (4) #8 2 1/2" (4) #4/0 (1) #2/0 (1) (1) #10 (2) (1) #2 (4) #250 KCMIL (1) (4) #6 (1) #10 (2) (1) #2 (1) #2/0 50A (1) (4) #6 (1) #10 (1) #8 (2) 3" (4) #350 KCMIL (1) #1 (1) #3/0 1 1/4" (1) (4) #4 (1) #10 (3) (4) #300 KCMIL (1) #1/0 (1) #3/0 70A (1) 1 1/4" (1) #8 1000A 3 1/2" (4) #400 KCMIL (1) #2/0 (1) #3/0 (4) #4 (3) (1) 1 1/2" (4) #3 (1) #8 3 1/2" (4) #350 KCMIL (1) #3/0 (4) 90A 1600A (1) #3/0 1 1/2" (1) #8 (1) (4) #2 (5) 3 1/2" (4) #400 KCMIL (1) #4/0 (1) #3/0 100A (1) 2" (4) #1 (1) #8 3 1/2" (4) #400 KCMIL (1) #250 KCMIL (6) 125A (1) 2" (4) #1 (1) #6 2500A (7) 3 1/2" (4) #500 KCMIL (1) #3/0 (1) #350 KCMIL 150A (4) #1/0 (1) #3/0(1) (1) #6 3 1/2" (4) #500 KCMIL (1) #400 KCMIL 175A (1) #3/0(1) (4) #2/0 (1) #6 (10) 3 1/2" (4) #500 KCMIL (1) #500 KCMIL 2 1/2" (4) #3/0 (1) #6 (4) #600 KCMIL (1) #500 KCMIL (1) #3/0 (1)

FEEDER SIZE GENERAL NOTES:

- 1. CONDUCTOR QUANTITY BASED ON 3-PHASE, 4-WIRE; FOR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL OR IS SINGLE PHASE DEDUCT FROM QUANTITY AS REQUIRED.
- 2. CONDUCTOR SIZES BASED ON NEC TABLE 310.16 COPPER
- 60°C UP TO 100A, 75°C GREATER THAN 100A. 3. GROUND SIZES: EQUIPMENT GROUND BASED ON NEC TABLE 250.122 - COPPER, SUSE RATED GROUND BASED ON NEC TABLE 250.66 - COPPER
- 4. CONDUIT FILL BASED ON NEC ANNEX C THW CONDUCTOR INSULATION

GROUND PER NEC (TYPICAL)

PANELBOARD NOTES (#)

- 1. TERMINATE GROUND ON ISOLATED GROUND BUS. 2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE). 3. INSTALL LOCKING DEVICE FURNISHED WITH
- PANELBOARD (LOCK-ON FOR CRITICAL LOAD). 4. GFI BREAKER FOR PERSONNEL PROTECTION (5 mA). 5. GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA). 6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE
- EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART. . REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS. 8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- 9. FACTORY WIRED TO LOAD. 10. THRU CONTROLLER. REFER TO LIGHTING CONTROLLER DETAIL. 11. ADD CIRCUIT BREAKER TO EXISTING PANEL

BUILDING EXTERIOR

	 ENT GROUNDING FOR SIZING CHART
BRKR AMPS	WIRE SIZE

BRKR AMPS			WIR	RE SIZE		
15-20	PHASE GROUND	12 12	10 10	8 8	6 6	4 4
25-30	PHASE GROUND	10 10	8	6 6	4 4	3 3
35-50	PHASE GROUND	8 10	6 8	4 4	3 4	2 4
60	PHASE GROUND	6 10	4 6	3 6	2 4	1 4
70	PHASE GROUND	6 8	4 4	3 4	2 3	1 2
80-90	PHASE GROUND	4 8	3 6	2 4	1 4	1/0
100	PHASE GROUND	3 8	2 6	1 4	1/0 4	2/0
PER NE	EC 250.122(E	3)				

EQUIPMENT LABELS

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS

WARNING

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE **EQUIPMENT (PPE)** REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

PANEL LD

PANEL LE

SERVICE AS REQUIRED. FURNISH AND/OR INSTALL ALL REQUIRED MATERIAL AND LABOR IN COMPLIANCE WITH POWER COMPANY REQUIREMENTS TO PROVIDE A COMPLETE ELECTRICAL SERVICE, INCLUDING TRENCHING AND BACK

ELECTRICAL SERVICE NOTES

- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL SERVICE AND METERING REQUIREMENTS WITH THE UTILTY COMPANY PRIOR TO BID AND SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AS REQUIRED BY THE SERVING UTILITY AS WELL AS COST INCURRED BY SERVING UTILITY.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FAULT CURRENT AT THE SECONDARY OF THE TRANSFORMER WITH THE UTILITY COMPANY AND ADJUST THE ELECTRICAL PANEL AIC RATINGS TO THE NEXT HIGHER STANDARD RATING.
- ALUMINUM SERVICE CONDUCTORS ARE NOT RECOMMENDED AND SHOULD ONLY BE USED WHERE ABSOLUTELY NECESSARY OR REQUIRED BY THE OWNER. CONTRACTOR TO CONTACT ENGINEER FOR SIZING. WHERE ALUMINUM CONDUCTORS ARE USED, THE OWNER SHALL PROVIDE ANNUAL MAINTENANCE OF ALL TERMINATIONS TO ENSURE SECURE CONNECTIONS. ALUMINUM WIRE WILL EXPAND AND CONTRACT AND OVER TIME MAY BECOME BRITTLE. THE OWNER SHALL ASSUME RESPONSIBILITY FOR USING ALUMINUM CONDUCTORS WITHOUT PROPER INSTALLATION, CARE, AND MAINTENANCE.
- COORDINATE ALL SERVICE AND METERING DETAILS INCLUDING ANY
- RELOCATION OF EXISTING UTILITY LINES WITH POWER COMPANY. CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC
- PAY ANY POWER COMPANY FEES CHARGED TO OWNER FOR SERVICE AND UTILITY LINE WORK ASSOCIATED WITH THIS PROJECT. THESE COSTS SHALL BE INCLUDED IN BIDS.
- FURNISH AND INSTALL MATERIALS FOR A TEMPORARY CONSTRUCTION

1. CONDUIT SIZED BASED ON CONDUCTOR PROPERTIES

LISTED IN THE CURRENT NEC EDITION, CHAPTER, 9,

CHAPTER 9, TABLE 4 FOR EMT WITH 40% FILL. OTHER

CONDITIONS MAY REQUIRE A LARGER CONDUIT, SUCH

TABLES 5 AND 5A, AND CONDUIT AREAS LISTED

AS UNDERGROUND PVC, SIZED FOR NEC.

P. GROUND SIZES: EQUIPMENT GROUNDING

BASED ON NEC TABLE 250.66 - COPPER

COPPER 75°C.

JANITOR-1120

PANEL LG

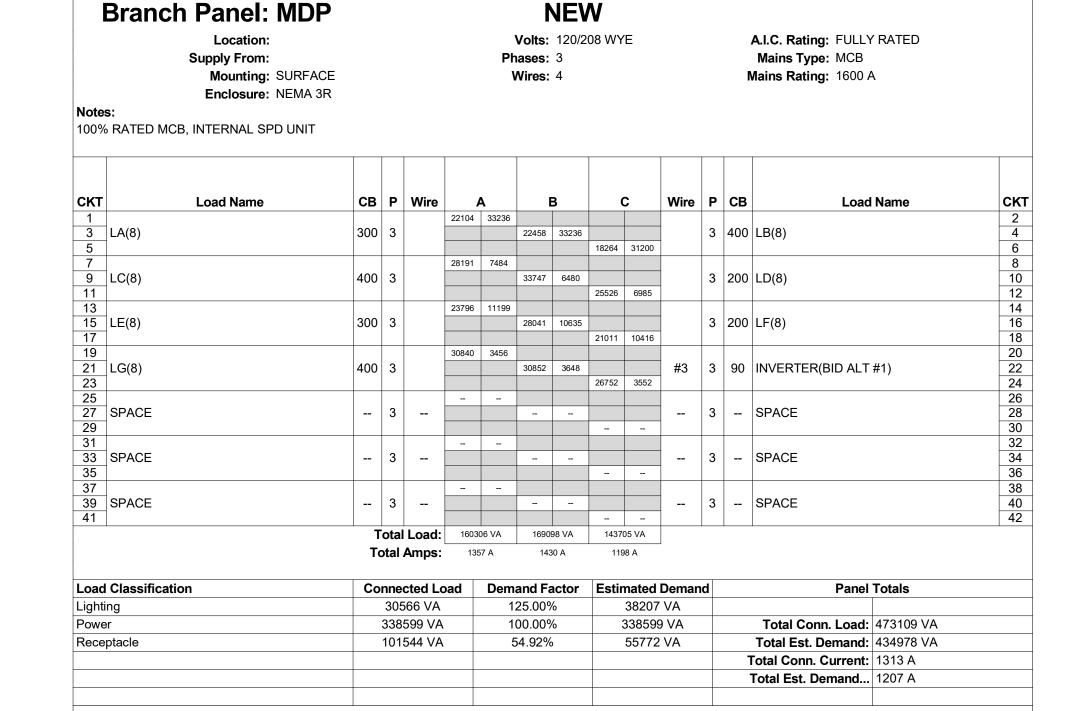
PANEL LF

CONDUCTOR BASED ON NEC TABLE 250.122 -

COPPER / GROUNDING ELECTRODE CONDUCTOR

3. CONDUCTOR SIZES BASED ON NEC TABLE 310.15 -

FILLING, PRIMARY CONDUIT, CONCRETE TRANSFORMER PAD, SECONDARY CONDUITS AND CABLES, C.T. CABINET, METERING AND GROUNDING SYSTEM.



-NEUTRAL

SERVICE-

BUILDING

STEEL C

FEEDER FROM

2 TYPICAL GROUNDING DETAIL 12" = 1'-0"

UTILITY

EQUIPMENT

NEUTRAL BUS-

GROUNDING ELECTRODES

NEC 250.66

-CONNECT TO METAL

UNDERGROUND WATER PIPE PER

BONDING

JUMPER

-EQUIPMENT GROUNDING BUS

TELEPHONE BACKBOARD.

-GROUND BUS

-GROUNDING ELECTRODES

SIZE PER

NEC 250.66

TELEPHONE BACKBOARD.

-(2)GROUND RODS AT 6' SPACING. BOND AND

-CONCRETE ENCASED ELECTRODE PER NEC

CÁDWELD AT EACH CONNECTION

-REFER TO FEEDER SCHEDULE (TYPICAL) JANITOR-1071 ELEC-1030 STORAGE-1009

PANEL LA

PANEL LB

PANEL LC

SECOND

SECTION

THE SCHOOL CAMPUS IS PRIMARILY METERED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE PANEL MDP THE LOCATION AND REQUIREMENTS 1600 AMP OF THE ELECTRICAL SERVICE WITH 208 VOLT THE OWNER PRIOR TO THE ROUGH 3-PHASE PAD MOUNTED AND PURCHASING OF EQUIPMENT. NEMA 3R TRANSFORMER MCB COORDIANTE LOCATION AND TYPE WITH OWNER CONTRACTOR SHALL ROUTE CONDUIT PADS BY E.C. AS REQUIRED. CONTRACTOR SHALL (TYPICAL) PROVIDE TRENCHING, BACKFILL, COMPACTION, AND OTHER NECESSARY APPURTENANCES REQUIRED PER OWNER PADS BY E.C. REQUIREMENTS. INCLUDE COSTS IN E601 (TYPICAL) BASE BID.

1 ELECTRICAL RISER NTS

	Branch Panel: LC						1	NEV	V							
Note	Location: ELEC 1030 Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1					Ph	Volts: ases: Vires:	3	08 WY	E				A.I.C. Rating: FULLY Mains Type: MLO	'RATED	
СКТ	Load Name	СВ	Р	Wire	A	4	E	3	(.	Wire	P	СВ	Load	Name	скт
	CLASS ROOM REC	20	1		1260	500						1		WORKROOM PRINT		2
	WORKROOM REF 1031 WORKROOM 1031 - VENDING(4)	20	1				1000	1000	1000	360		<u>1</u> 1	20	WORKROOM 1031 - WORKROOM REC 1		6
7	WORKROOM REC 1031	20	1		540	1080			1000	300		1	20	OFFICE REC 1028	031	8
9	OFFICE REC 1027	20	1				720	1080				1	20	OFFICE REC 1026		10
	LIBRARY REC	20	1						1720	1720		1		LIBRARY REC		12
	LIBRARY REC IT EQUIPMENT	20	1		900	1000	1000	1000				1		IT EQUIPMENT IT EQUIPMENT		14 16
	IT EQUIPMENT	20	1				1000	1000	1000	1000		1		IT EQUIPMENT		18
19	IT EQUIPMENT	20	1		1000	720						1	20	CLASS ROOM REC		20
	CLASS ROOM REC	20	1				1080	2500			#10	2	30	DRYER		22
	WASHER CLASS ROOM COUNTER REC 1085	20	1		1000	4000			1000	2500	,,					24 26
	CLASS ROOM COUNTER REC 1085	20	1		1000	4000	180	4000			#6	2	50	OVEN		28
	CLASS ROOM REF 1085	20	1						180	1620		1	20	CLASS ROOM REC		30
	CLASS ROOM REC	20	1		1620	720						1		MUSIC REC 1023		32
	ART REC 1022 OFFICE REC 1019	20	1				900	1080	720	700		1		ART REC 1022 OFFICE REC 1018		34
35 37	OFFICE REC 1019 OFFICE REC 1017	20	1		720	540			720	720		1	20	COMPUTERS REC 1	016	36 38
	COMPUTERS REC 1016	20	1				360	180				1	20	COMPUTERS REC 1		40
	COMPUTERS REC 1016	20	1						360	360		1	20	COMPUTERS REC 1	016	42
	WORKROOM REC COUNTER 1031 COMPUTERS REC 1016	20 20	1		180	180	100	1500				1		FACP EHU-2		44
	SPACE	20	1				180	1500	_	1260		1	20	MUSIC REC 1023		48
	CLASS ROOM LIGHTING	20	1		1152	1742						1		CLASS ROOM LIGH	TING	50
	CLASS ROOM LIGHTING	20	1				1200	1619				1	20	CLASS ROOM LIGH		52
	CLASS ROOM LIGHTING	20	1						1280	180		1	20	WORKROOM REC		54
55 57	CLASS ROOM LIGHTING	20	1		251	540	2785	2785				1	20	COMPUTERS REC 1	016	56 58
59	CU-25	50	2	#6			2100	2700	2785	2785	#6	2	50	CU-27		60
61 63	CU-24	50	2	#6	2785	2785	2785	2785			#6	2	50	CU-28		62 64
	F-25	25	1	#10			2700	2700	1488	1488	#10	1	25	F-26		66
	F-27	25		#10	1488	1488					#10	1	25	F-28		68
	F-24	25	1	#10			1488	540				1	20	COMPUTERS REC 1	016	70
	SPARE SPARE	20	1		0	_			0	-		<u>1</u> 1		SPACE SPACE		72 74
	SPARE	20	1		U	-	0	-				1		SPACE		74
77	SPARE	20	1						0	_		1		SPACE		78
	SPARE	20	1		0	-						1		SPACE		80
	SPARE	20	1				0					1_		SPACE		82
03	SPARE	20 T	otal	 Load:	2819	1 \/Δ	3374	7 \/Δ	2552	 6 VA		1		SPACE		84
				Amps:	238		285			3 A	J					
Load	Classification	Со	nnec	ted Lo	ad	Dem	and Fa	ctor	Estir	nated	Deman	d		Panel	Totals	
Lighti				4 VA			25.00%			9055						
Powe	r	L	4422	20 VA		10	00.00%	6		44220	VA			Total Conn. Load:	87464 VA	
Rece	otacle		3600	00 VA		6	3.89%	· _		23000	VA			Total Est. Demand:	76275 VA	
													•	Total Conn. Current:	243 A	
												\perp		Total Est. Demand	212 A	

	Branch Panel: LD						ľ	NEV	N						
	Location: OFFICE 10 Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1	007				Pł	Volts: nases: Wires:		08 WY	Έ				A.I.C. Rating: FULLY RATED Mains Type: MLO	
ote	s:														
KT	Load Name	СВ	Р	Wire		Α		В			Wire	Р	СВ	Load Name	скт
1	OFFICE REC 1002	20	1		720	720						1	20	OFFICE REC 1003	2
3	OFFICE REC 1004	20	1				720	540				1	20	RECEPTION REC 1001	4
5	CONF REC 1005	20	1						540	900		1	20	OFFICE REC 1007	6
7	OFFICE REC 1011	20	1		720	1260						1		NURSE REC 1130	8
9	WORKROOM REC 1128	20	1				540	360				1		WORKROOM REC 1128	10
11	WORKROOM PRINTER 1128	20	1						500	1000		1		WORKROOM 1128 - VENDING(4)	
13	WORKROOM 1128 - VENDING(4)	20	1		1000	1000						1		WORKROOM REF 1128	14
15	WORKROOM REC COUNTER 1128	20	1				180	1440				1		CLASS ROOM REC	16
17	CLASS ROOM LIGHTING	20	1						1344	1441		1		CLASS ROOM LIGHTING	18
19	CLASS ROOM LIGHTING	20	1		1704	360						1		BUZZER/DOOR	20
21	DRINKING FOUNTAIN(4)	20	1				360	2340				1		REC/VEST REC 1000/1001	22
23	WORKROOM REC COUNTER 1128	20	1						180	1080		1	20	CONF REC 1005	24
25	SPACE		1		-	_						1		SPACE	26
27	SPACE		1					-				1		SPACE	28
29	SPACE		1							-		1		SPACE	30
31	SPACE		1		-	0						1	20	SPARE	32
33	SPACE		1				-	0				1	20	SPARE	34
35	SPACE		1							0		1	20	SPARE	36
37	SPACE		1		-	0						1	20	SPARE	38
39	SPACE		1					0				1		SPARE	40
41	SPACE		1							0		1	20	SPARE	42
		Т	otal	Load:	748	4 VA	648	O VA	698	5 VA					
		To	otal	Amps:	6	3 A	54	4 A	59	9 A					
oad	Classification	Со	nne	cted Lo	oad		and F		Estir		Deman	d		Panel Totals	
ight	ng		44	89 VA		1	25.00°	%		5612	VA				
owe	<u></u>		36	60 VA		1	00.009	%		360 \	VΑ			Total Conn. Load: 20949 VA	
ece	ptacle			100 VA			31.06%		1	13050		\top		Total Est. Demand: 19022 VA	
	1		. •						+			+	-	Total Conn. Current: 58 A	
									+			+		Total Est. Demand 53 A	
									+			+		Total Est. Dellialiu 55 A	

	Location: JANITO Supply From: MDP Mounting: SURFA	.CE				Pł	Volts: nases: Vires:	3	08 WY	Έ				A.I.C. Rating: FULL\ Mains Type: MLO	Y RATED	
Note	Enclosure: NEMA s:	1														
СКТ	Load Name	СВ	P	Wire		A		3			Wire	Р	СВ	Lood	l Name	
1	CLASS ROOM REC	20	1	VVIIE	1080	1080) 	,	, 	AAII.G	1	1	CLASS ROOM REC		
3	CLASS ROOM REC	20	1		1000	1000	1080	1080				1		CLASS ROOM REC		
5	DRINKING FOUNTAIN(4)	20	1				7000	.000	720	720		1		DRINKING FOUNTA		
7	CLASS ROOM LIGHTING	20	1		1440	480			0	. 20		1		CLASS ROOM LIGH		
9	CLASS ROOM REC	20	1				1440	1260				1		CLASS ROOM REC		
11	CLASS ROOM REC	20	1						1260	1440		1	1	CLASS ROOM REC		
13	CLASS ROOM REC	20	1		1440	1260						1		CLASS ROOM REC		
15	CLASS ROOM REC	20	1				1260	1440				1		CLASS ROOM REC		
	CLASS ROOM REC	20	1						1620	1536		1		CLASS ROOM LIGH		
	CLASS ROOM LIGHTING	20	1		1584	1056						1		CLASS ROOM LIGH		
21	CLASS ROOM LIGHTING	20	1				1719	467				1	20	CLASS ROOM LIGH	ITING	
23	SINKS(4)	20	1						180	360		1		SINKS(4)		
25	F-33	25	1	10	1488	1488					10	1		F-36		
27	F-37	25	1	10			1488	1488			10	1	25	F-38		
29	F-39	25	1	10					1488	1488	10	1	25	F-40		
31	F-41	25	1	10	1488	1488					10	1		F-42		
33	F-43	25	1	10			1488	1488			10	1		F-44		
35	F-34	25	1	10					1488	1488	10	1		F-35		
37	F-45	25	1	10	1488	1488					10	1		F-46		
39	F-31	25	1	10			1488	1488			10	1		F-29		
41	F-30	25	1	10					1488	1488	10	1		F-32		
43	CLASS ROOM REC	20	1		1620	1056						1	20	CLASSROOM LIGH		
45	CLASS ROOM REC	20	1				1440	1344				1		CLASSROOM LIGH	TING	
47	WH AND CP	20	1			_			500	0		1		SPARE		
49	CLASS ROOM REC	20	1		1080	0	4000					1	1	SPARE		
51 53	SERVER EQUIPMENT SERVER EQUIPMENT	20 20	1				1000	0	1000	_		1		SPARE SPARE		
-55	SLIVER EQUITIVENT				0040	14.1/4	201	O 1/A	1000	0			20	SPARE		
				l Load: Amps:		9 A		58 VA 2 A		34 VA 2 A						
Load	Classification	Co	nne	cted Lo	oad	Dem	and Fa	actor	Estir	nated	Deman	ıd		Panel	Totals	
Lighti	ing		106	82 VA		1	25.00%	6		13353	3 VA					
Powe	<u> </u>			284 VA			00.00%			27284				Total Conn. Load:	62826 VA	
	ptacle			360 VA			70.11%			17430				Total Est. Demand:		
11000	Pidolo		۷+(700 VA			0.11/0	,	1	11-100	, v.n.		-			
														Total Conn. Current: Total Est. Demand		

E	3ranch	Panel: LB						N	NEV	N							
Notes		Location: JANITO Supply From: MDP Mounting: SURFA Enclosure: NEMA	ACE				Ph		120/2 3	08 WY	E				A.I.C. Rating: FULLY Mains Type: MLO	/ RATED	
СКТ		Load Name	СВ	P	Wire		Α	E	3		;	Wire	P	СВ	Load	l Name	СК
1	CU-36		50	2	#6	2600	2226	2600	2226			#8	2	40	CU-37		2
5					щ.			2600	2226	2600	2600	щС		F 0	CLI 20		6
1	CU-38		50	2	#6	2600	2600					#6	2	50	CU-39		8
9	CU-40		50	2	#6			2600	2600	2600	2600	#6	2	50	CU-41		10
40	011.40		40		110	2226	2600			2000	2000	"0	_		011.40		14
15	CU-42		40	2	#8			2226	2600			#6	2	50	CU-43		16
17	CU-44		50	2	#6					2600	2600	#6	2	50	CU-34		18
21						2600	2600	2600	2600								20 22
23	CU-35		50	2	#6			2000	2000	2600	2600	#6	2	50	CU-45		24
25	CU-46		50	2	#6	2600	2600					#6	2	50	CU-33		26
21				_	,,,,			2600	2600	2600	2600		_				28 30
29 31	CU-29		50	2	#6	2600	2600			2000	2000	#6	2	50	CU-30		32
33	CU-31		50	2	#6			2600	2600			#6	2	50	CU-32		34
33										2600	2600	#0		50	CO-32		36
	SPACE SPACE			1			2785		2785			#6	2	50	CU-26		38 40
	SPACE			1									1		SPACE		42
			T	otal	Load:	3323	36 VA	3323	6 VA	3120	0 VA	Į.					
			To	tal	Amps:	28	0 A	280) A	260							
	Classificatio	n			cted Lo	oad		and Fa				Deman	d		Panel	Totals	
Powe	r			976	672 VA		1	00.00%	6	1	97672	VA			T (10 · ·	07070 \ ()	
															Total Conn. Load:		
														-	Total Est. Demand:		
															Total Conn. Current:		
															Total Est. Demand	21 I A	



Sequoyah Public Schools Elementary School

16441 South 4180 Road Claremore, Oklahoma

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ISSUE DATE: 2023.12.07

REVISIONS:

PANEL SCHEDULES

	Branch Panel: LF						ľ	NEV	V						
	Location: JANITOR 11 Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1	20				Ph	Volts: ases: Vires:	3	08 WY	E				A.I.C. Rating: FULLY RATED Mains Type: MLO	
Note															
CKT	Load Name	СВ	Р	Wire		Α		В		3	Wire	Р	СВ	Load Name	скт
	CLASS ROOM REC	20	1	11110	1800	1620					******	1		CLASS ROOM REC	2
	CLASS ROOM REC	20	1				1620	1440				1		CLASS ROOM REC	4
	CLASS ROOM REC	20	1						1620	1620		1		CLASS ROOM REC	6
	CLASS ROOM REC	20	1		1620	1800			1000			1		CLASS ROOM REC	8
	CLASS ROOM REC	20	1				1440	1620				1		CLASS ROOM REC	10
	CLASS ROOM REC	20	1						1620	720		1		DRINKING FOUNTAIN(4)	12
	CLASS ROOM REC	20	1		900	1260						1		CLASS ROOM REC	14
	CLASS ROOM LIGHTING	20	1				1551	1344				1		CLASS ROOM LIGHTING	16
	CLASS ROOM LIGHTING	20	1						1440	1536		1		CLASS ROOM LIGHTING	18
19	CLASS ROOM LIGHTING	20	1		1023	816						1	20	CLASS ROOM LIGHTING	20
21	SINKS(4)	20	1				180	440				1	20	CLASS ROOM LIGHTING	22
23	SINKS(4)	20	1						360	500		1	20	WH AND CP	24
25	FIRE RISER EQUIPMENT	20	1		360	_						1		SPACE	26
27	SERVER EQUIPMENT	20	1				1000	-				1		SPACE	28
	SERVER EQUIPMENT	20	1						1000	-		1		SPACE	30
	SPACE		1		-	0						1		SPARE	32
	SPACE		1					0				1		SPARE	34
	SPACE		1							0		1		SPARE	36
	SPACE		1		-	0						1		SPARE	38
	SPACE		1					0				1		SPARE	40
41	SPACE		1						-	0		1	20	SPARE	42
				l Load: Amps:		99 VA 4 A		9 A	1041 87	6 VA					
Load	Classification	Co	nne	cted Lo	ad	Dem	and Fa	actor	Estin	nated	Deman	d		Panel Totals	
_ighti	ng		81	50 VA		1.	25.00%	6		10188	VA				
Powe	r		86	30 VA		1	00.00%	6		860 \	VΑ			Total Conn. Load: 32250 VA	
	otacle			240 VA			71.51%			16620				Total Est. Demand: 27668 VA	
1000	otacie	+	202	240 VA			1.017	,		10020	VA			Total Conn. Current: 90 A	
		+													
									-					Total Est. Demand 77 A	

Notes	Branch Panel: LE Location: STOR 1 Supply From: MDP Mounting: SURFAGE Enclosure: NEMA 1 s:	CE				Ph	Volts: lases: Wires:	3		Έ				A.I.C. Rating : FULLY RATED Mains Type : MLO	
СКТ	Load Name	СВ	Р	Wire		Α	E	3			Wire	Р	СВ	Load Name	
1	CU-19	50	2	#6	2785	2785					#6	2		CU-18	
3	00 10			""			2785	2785			,,,,			00 10	
5 7	CU-17	30	2	#10	1693	2226			1693	2226	#8	2	40	CU-16	
9					1093	2220	2785	2785							
11	CU-23	50	2	#6			2.00	2.00	2785	2785	1	2	20	ODU-1	
13	CLLOO			40	2785	2785					40		50	CLI 04	
15	CU-22	50	2	#6			2785	2785			#6	2	50	CU-21	
	F-23	25	1	#10					1488	1488	#10	1		F-22	
	F-21	25	1	#10	1488	1488					#10	1		F-14	
	F-15	25	1	#10			1488	1488			#10	1		F-20	
	F-18	25	1	#10					1488	1488		1		F-17	
	F-16	25	1	#10	1488	1488					#10	1	25	F-19	
27	CU-20	50	2	#6			2785	2785			#6	2	50	CU-15	
29									2785	2785					
31	CU-14	50	2	#6	2785							1		SPACE	
33	SPARE	20	1				2785					1		SPACE SPACE	
	SPARE	20	1		0				0			1		SPACE	
	SPARE	20	1		U		0					1		SPACE	
	SPARE	20	1						0			1		SPACE	
	OF AIRE		otal	Load:	2370	96 VA	2804	1 VA				٠.		OI AOL	
				Amps:)2 A		7 A		5 A	J				
Load	Classification	Co		cted Lo	ad		and Fa				Demar	nd		Panel Totals	
Powe	er		728	347 VA		1	00.00%	6		72847	' VA				
														Total Conn. Load: 72847 VA	
														Total Est. Demand: 72847 VA	
													-	Fotal Conn. Current: 202 A	
												+		Total Est. Demand 202 A	

Notes	Branch Panel: LG Location: JANITOR 11 Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1	20				Ph	Volts: nases: Wires:	3		E				A.I.C. Rating: 10000 Mains Type: MLO	
СКТ	Load Name	СВ	Р	Wire	1	A	E	3	(;	Wire	Р	СВ	Load Name	CK
3	CU-11	50	2	#6	2600	2600	2600	2600			#6	2	50	CU-10	4
5	CU-8	50	2	#6	2600	2600	2000	2000	2600	2600	#6	2	50	CU-7	6 8
9 11	CU-2	50	2	#6			2600	2600	2600	2600	#6	2	50	CU-3	10 12
13 15	CU-4	50	2	#6	2600	2600	2600	2600			#6	2	50	CU-1	14 16
17 19	CU-5	50	2	#6	2600	2600			2600	2600	#6	2	50	CU-6	18 20
21 23	CU-9	50	2	#6			2600	2600	2600	2600	#6	2	50	CU-12	22 24
25	CU-13	50	2	#6	2600	1488					#10	1		FU-13	26
21	FU-12	25		#10			2600	1488	1488	1400	#10 #10	1		FU-11 FU-10	28 30
	FU-12 FU-9	25	1	#10	1488	1488			1488	1488	#10	1		FU-8	32
	FU-6	25	1	#10	1400	1400	1488	1488			#10	1		FU-5	34
	FU-3	25	1	#10			1400	1400	1488	1488	#10	1		FU-7	36
	FU-4	25	1	#10	1488	1488			1.00		#10	1		FU-1	38
	FU-2	25	1	" .0			1488	1500			".0	1		EHU-1	40
	SPACE		1									1		SPACE	42
				Load: Amps:		40 VA 62 A	3085 262	2 VA 2 A	2675 223			•			·
Load	Classification	Со	nne	cted Lo	oad	Dem	and Fa	actor	Estin	nated	Demano	i		Panel Totals	
Powe			884	144 VA		1	00.00%	6		88444	VA				
														Total Conn. Load: 88444 VA	
														Total Est. Demand: 88444 VA	
												+	7	Total Conn. Current: 245 A	
												+		Total Est. Demand 245 A	
					-							+		Total Lot Dolliana 27071	



Sequoyah Public Schools Elementary School



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ISSUE DATE: 2023.12.07

REVISIONS:

PANEL SCHEDULES

INSULATION - SEE INTERIOR PARTITION

AROUND RECEPTACLES - TYPICAL

- PUTTY PAD OR SPRAY FOAM INSULATION

PACK VOID SOLID WITH INSULATION

DOUBLE STUDS AS

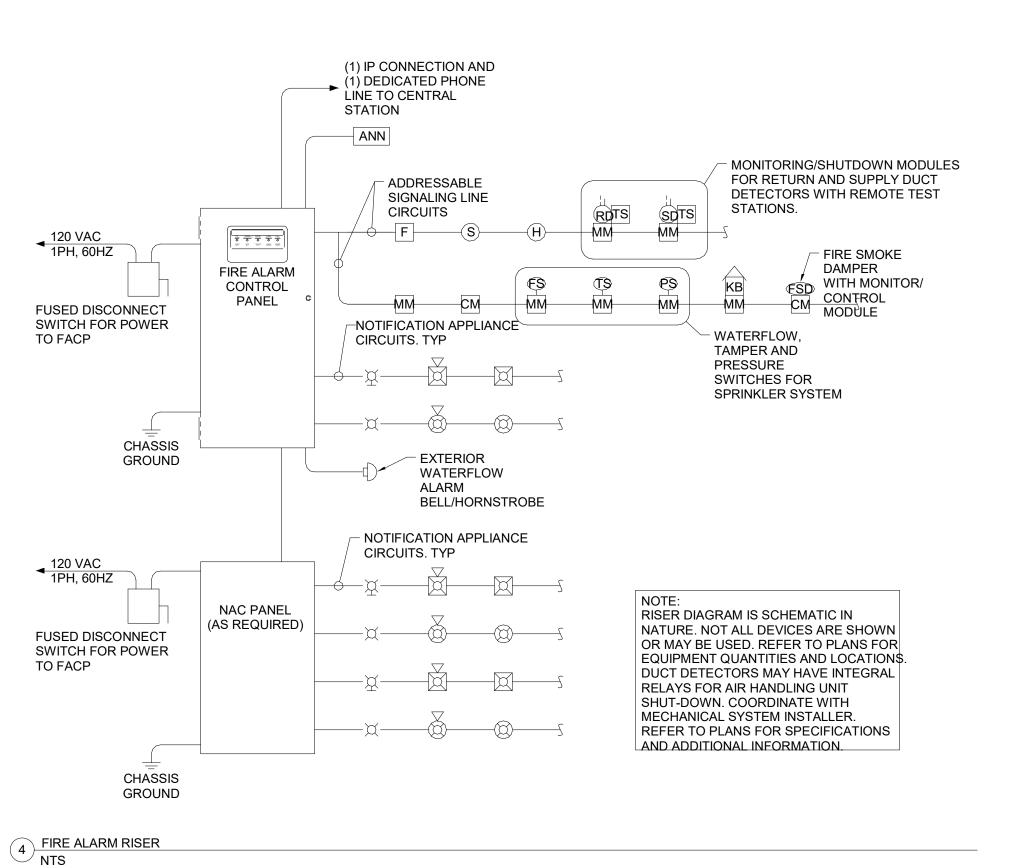
BETWEEN STUDS - SEE INTERIOR

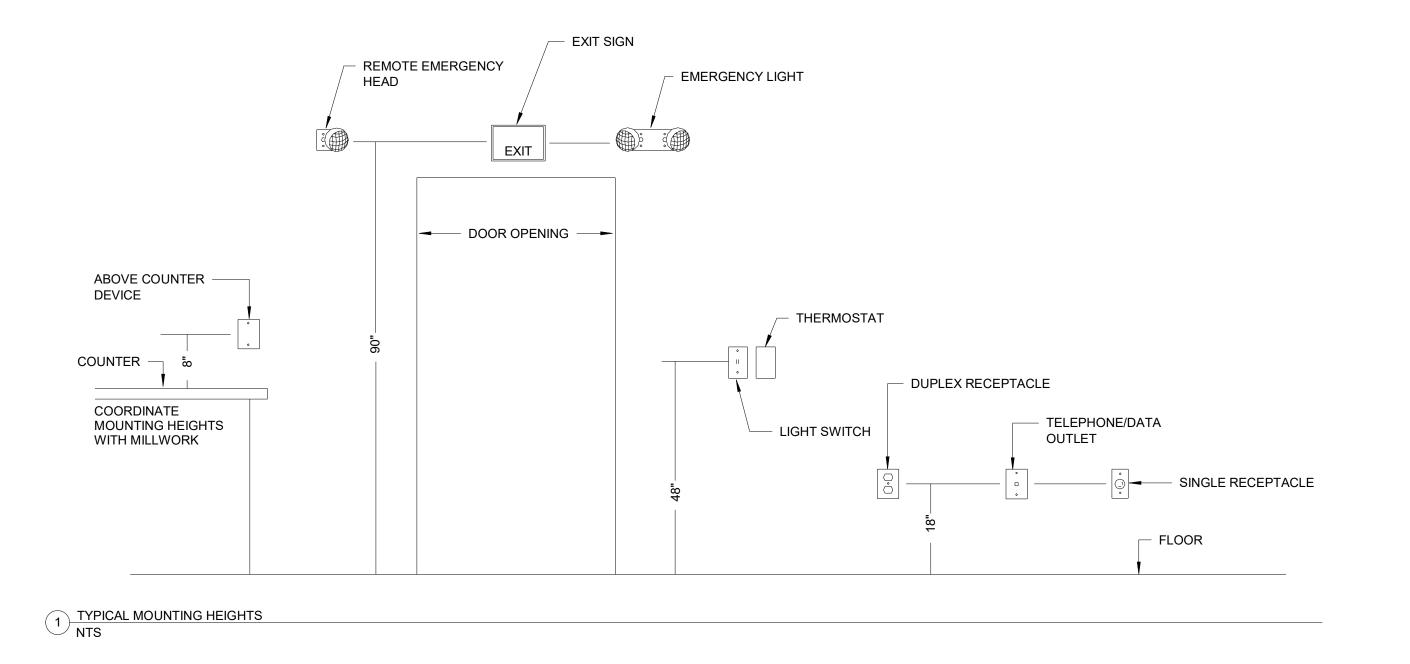
PARTITION SCHEDULE FOR TYPE

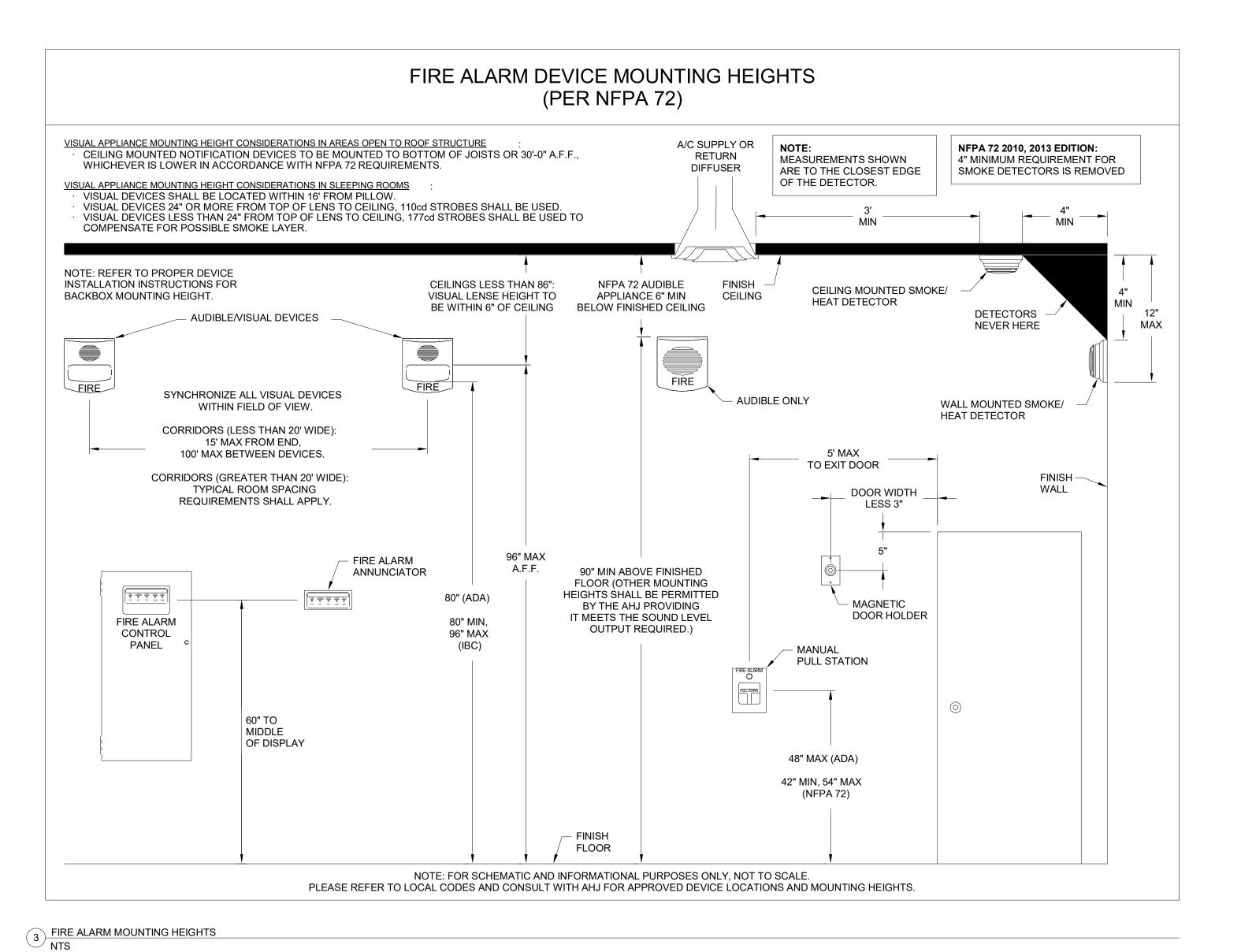
REQUIRED

SCHEDULE FOR TYPE

0' - 0' - 8" MI0' - 4"







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ISSUE DATE: 2023.12.07

REVISIONS:

ELECTRICAL DETAIL