EAST END ELEMENTARY HVAC REPLACEMENT

SHERIDAN SCHOOL DISTRICT

INDEX OF DRAWINGS

MECHANICAL

M1.1 FLOOR PLAN - HVAC

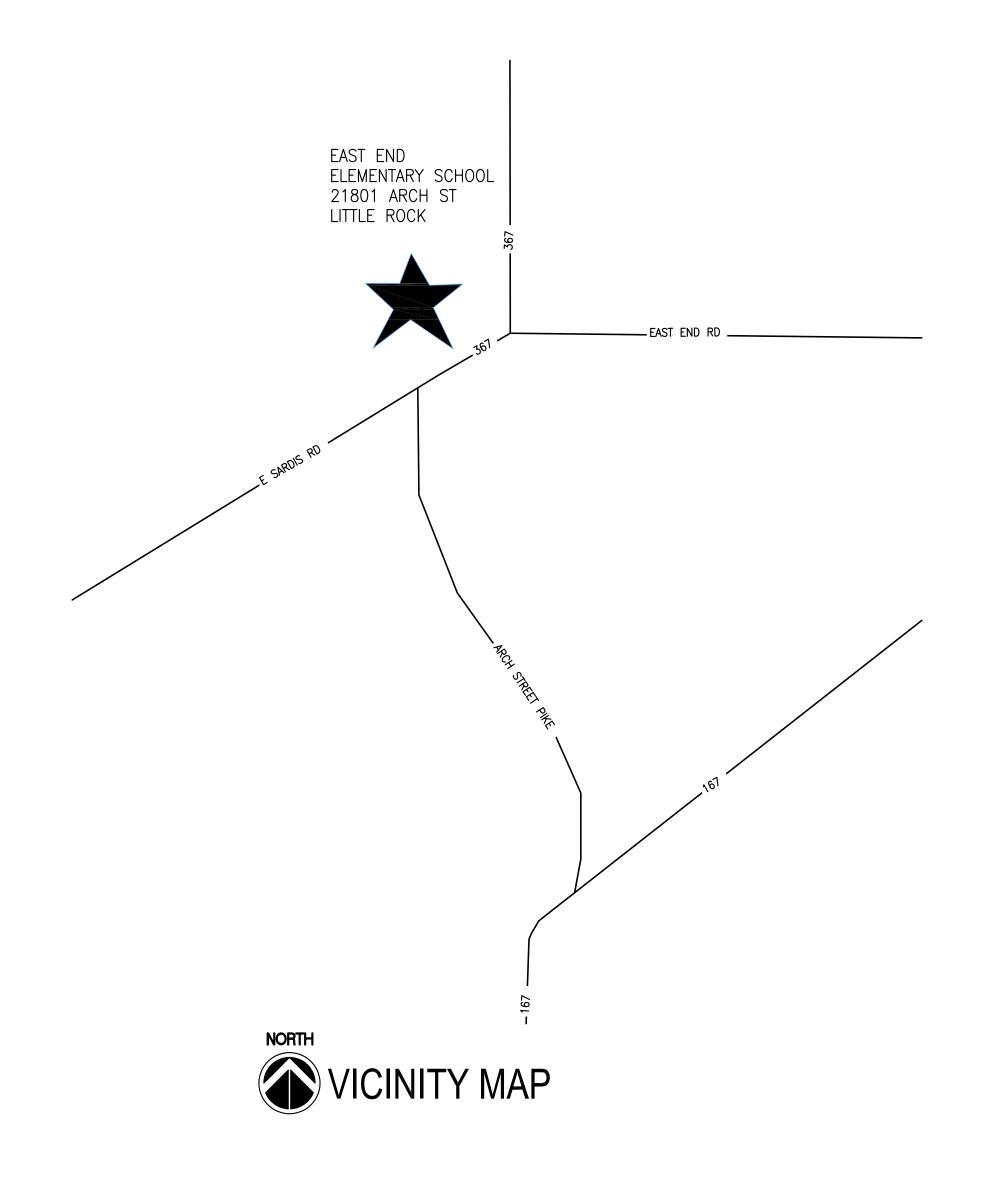
ELECTRICAL

E1.1 FLOOR PLAN - ELECTRICAL

CSUSA

AS-BUILTS (NO CHANGE)

8/132/2024



PROJECT INFORMATION

OWNER:	SHERIDAN SCHOOL DISTRICT
FACILITY:	EAST END ELEMENTARY
LOCATION: _	21801 ARCH STREET
BY:	
CONTRACTOR	:
BY:	
DATE:	
ARCHITECT:	LEWIS, ELLIOTT, McMORRAN, VADEN,
	RAGSDALE, & WOODWARD INCORPORATED
ADDRESS:	11225 HURON LANE, SUITE 104
	LITTLE ROCK, ARKANSAS 72211
BY:	

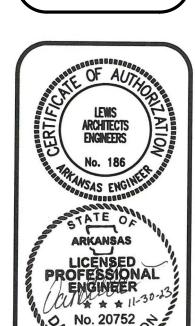


DATE: 12-1-2023
PROJECT NO: 23072
DRAWN BY: DBA
REVISION:



ELLIOTT • MCMOF FECTS IEERS

AST END ELEMENTARY HVAC REPLACEMENT



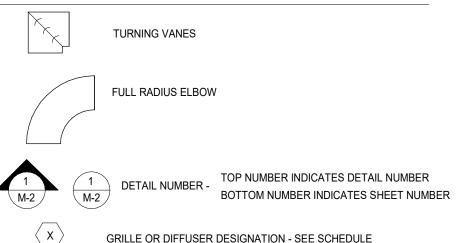
DATE: 12-1-23
PROJECT NO: 23072
DRAWN BY: RAB/DBA
REVISION:

M1.1

1 OF 2

2 OF 2

MECHANICAL LEGEND



CO2

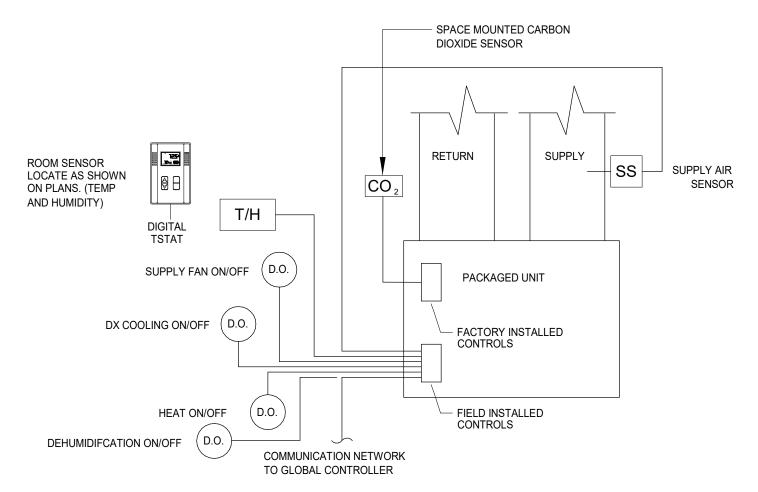
TEMP/HUMIDITY SENSOR

CARBON DIOXIDE SENSOR

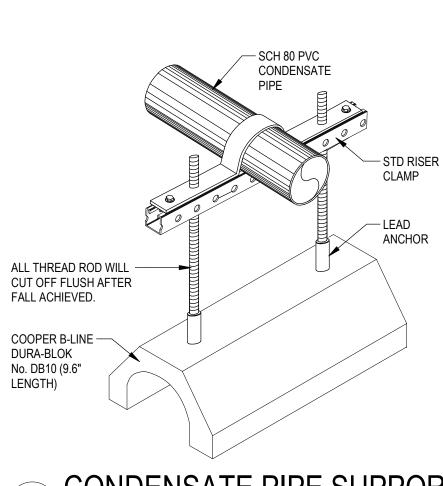
SEQUENCE OF OPERATION

- OCCUPIED/UNOCCUPIED MODE SHALL BE DETERMINED BY OWNER/OPERATOR BASED ON A WEEKLY SCHEDULE WITH EVENT AND HOLIDAY OVERRIDE SCHEDULES.
- GAS-FIRED PACKAGED UNITS (AC-1 THRU 7)

 A. SHALL BE CONTROLLED BY DDC CONTROLLER (TEMP. & HUMIDITY CONTROL), FIELD INSTALLED CO2 SENSOR WITH INTEGRAL ECONOMIZER CONTROLLER. PRESET OCCUPIED/UNOCCUPIED SCHEDULES AS DIRECTED BY OWNER.
- BLOWER SHALL CYCLE IN SEQUENCE ON DEMAND FOR HEATING OR COOLING OR DEHUMIDIFICATION.
- INTEGRAL EQUIPMENT CONTROLS SHALL MODULATE ECONOMIZER, COMPRESSORS, DEHUMIDIFICATION CYCLE, VENTILATION AIR BASED ON CO2 AND HEATING CYCLE IS REQUIRED TO MAINTAIN SET TEMPERATURE AND RELATIVE HUMIDITY (60% MAXIMUM
- 3. 75°F COOLING/70°F HEATING (ADJUSTABLE).
- UNOCCUPIED MODE
 - BLOWER SHALL CYCLE IN SEQUENCE ON DEMAND FOR HEATING OR COOLING OR DEHUMIDIFICATION.
- OUTSIDE AIR DAMPER SHALL CLOSE. 84°F COOLING / 62°F HEATING (ADJUSTABLE).
- ECONOMIZER CYCLE SHALL BE ACTIVATED BASED ON ENTHALPY COMPARISON OF OUTSIDE AIR VERSUS RETURN AIR.
- CARBON DIOXIDE MONITORING SHALL PROVIDE AN OVERRIDE OF THE ECONOMIZER TO VENTILATION AIR MAXIMUM POSITION IN RESPONSE TO ELEVATED CO2 LEVELS (DAMPER POSITION SHALL PROPORTIONALLY INCREASE FROM MINIMUM CFM POSITION AT 500 PPM AND OPEN TO MAX POSITION AT 1100 PPM.) REFER TO OUTSIDE AIR SCHEDULE FOR AIRFLOW AMOUNT.



PACKAGE UNIT CONTROLS SCHEMATIC



CONDENSATE PIPE SUPPORT

MECHANICAL GENERAL NOTES

- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- DUCT SIZES INDICATED ON PLANS ARE ACTUAL SHEET METAL SIZES AND DO ALLOW FOR INTERNAL INSULATION OF RECTANGULAR DUCT, IF APPLICABLE.
- MOUNT ALL TEMPERATURE SENSORS &/OR THERMOSTATS AT 48" TO TOP OF BOX.
- PROVIDE TURNING VANES IN ALL 90-DEGREE ELBOWS. UNLESS NOTED OTHERWISE.
- INTERNALLY INSULATE ALL RECTANGULAR SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
- COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBER. OFFSET DUCTS AS REQUIRED TO
- CLEAR STRUCTURAL MEMBERS. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS WITH
- ELECTRICAL CONTRACTOR. COORDINATE GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
- SCREWS TO SECURE AIR DEVICES SHALL BE PAINTED HEAD TYPE PROVIDED BY DEVICE MANUFACTURER. ANY OTHER TYPE USED WILL BE REPLACED WITH PROPER SCREW BEFORE ACCEPTANCE.
- INSURE 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKE VENTILATORS AND VENTS FOR FURNACE/PLUMBING AND EXHAUST VENTILATORS.

HVAC ABBREVIATIONS								
(SEE SHT T-1 FOR	GENERAL ABBREVIATIONS)							
A.F.F.	ABOVE FINISHED FLOOR							
ABV.	ABOVE							
CFM	CUBIC FEET PER MINUTE							
DISCH.	DISCHARGE							
DN.	DOWN							
MIN.	MINIMUM							
OSA	OUTSIDE AIR							
PLUMB.	PLUMBING							
R.A.	RETURN AIR							
S.A.	SUPPLY AIR							
T-STAT	THERMOSTAT							
U.N.O.	UNLESS NOTED OTHERWISE							
W/	WITH							
I.D.	INTERNAL DIAMETER							
EXT. INSUL.	EXTERNALLY INSULATED							
INT. INSUL.	INTERNALLY INSULATED							
VRF	VARIABLE REFRIGERANT FLOW							

UNIT NO.	SERVES	TOTAL AIR FLOW (CFM)	MAXIMUM OCCUPANTS	CFM / OCCUPANT	AREA	CFM/FT ²	FRESH AIR DESIGN (CFM)		
		,					SUPPLY	EXHAUST	
AC-1	K-1	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	
AC-2	K-2	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	
AC-3	K-3	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	
AC-4	K-4	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	
AC-5	K-5	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	
AC-6	K-6	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	
AC-7	K-7	1600	20	10	800	0.12	MIN. 100 MAX. 300	BAROMETR	

ACCEPTABLE INDOOR AIR QUALITY. OTHER CONTRIBUTING FACTORS ARE BUILDING MATERIALS, OFFICE EQUIPMENT, MAINTENANCE, JANITORIAL PRACTICES, POLLUTION, NOISE, LIGHTING, PSYCHOLOGICAL STRESS AND THE RANGE OF SUSCEPTIBILITY IN THE OCCUPANTS.

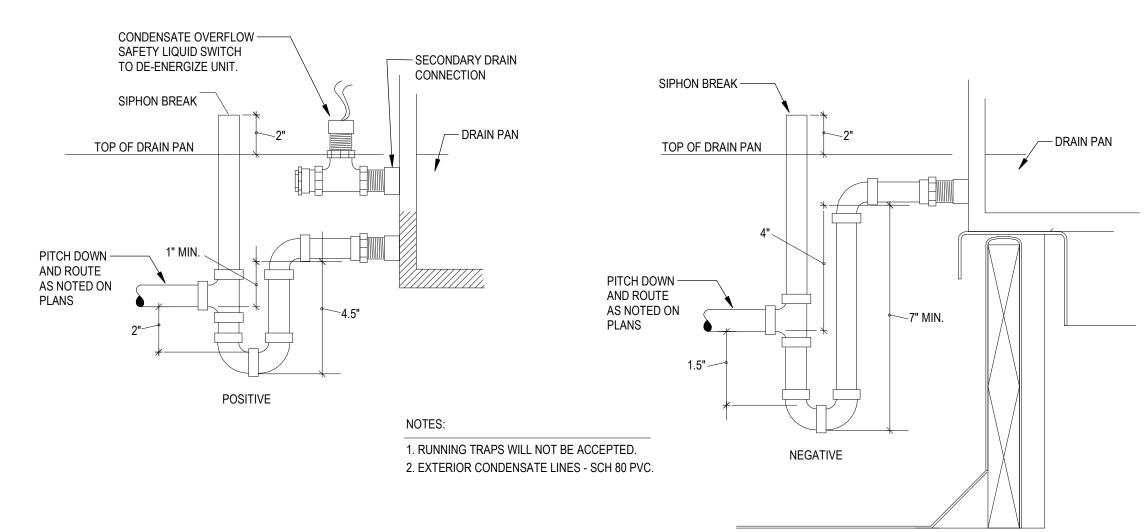
3. DEMAND CONTROL VENTILATION AIR IS INTRODUCED VIA ECONOMIZER CYCLE AS OUTSIDE AIR CONDITIONS PERMIT OR AS CARBON DIOXIDE LEVELS RISE ABOVE 500 PPM INDICATING AN INCREASE OF OCCUPANCY.

IMPORTANT: CONTRACTOR SHALL INCLUDE THIS INFORMATION IN OWNERS OPERATION AND MAINTENANCE MANUALS.

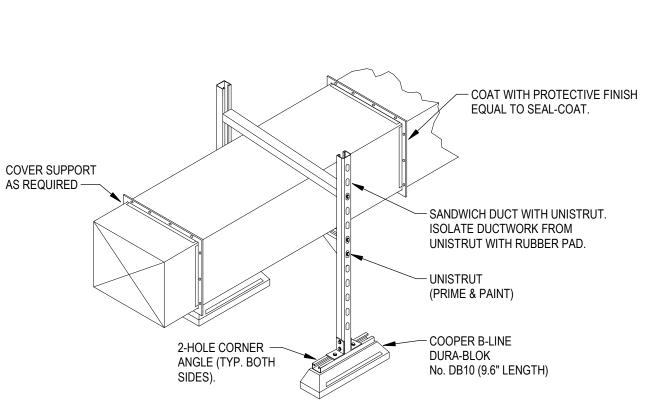
PACKAGE EQUIPMENT SCHEDULE														
MARK	MANUFACTURER	MODEL	TONNAGE (NOMINAL)	COOLING CAPACITY GROSS TOTAL / SENSIBLE (MBH)	HEATING CAPACITY INPUT/OUTPUT (MBH)	SUPPLY CFM	OSA CFM	E.S.P.	DISCHARGE ARRANGEMENT	BHP	VOLTAGE	MCA / MOCP (AMPS)	SEER	COOLING / HEATING STAGES
IVI/ALVIV	MANOLAGIGILLI	WIODLL	(INOIVIIINAL)	OLINOIDEE (IVIDITI)		OOLITETOLIN	OOK OI W	L.O.1 .	ANIVANOLINLINI	וווט	VOLIAGE	(Aivii O)	OLLIN	OTAGEG
AC-1 THRU 7	CARRIER	48GCSN05J2M5-0A3A0	4	50 / 37.1	67 / 54 (HIGH HEAT)	1,600	300	0.5	HORIZONTAL SUPPLY /	1.05	208/3	27 / 30	16.1	2/2

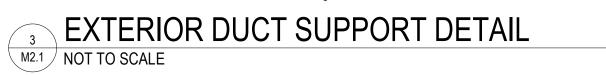
ACCESSORIES & NOTES: 1. STAINLESS STEEL HEAT EXCHANGER 2. 2" PLEATED FILTERS

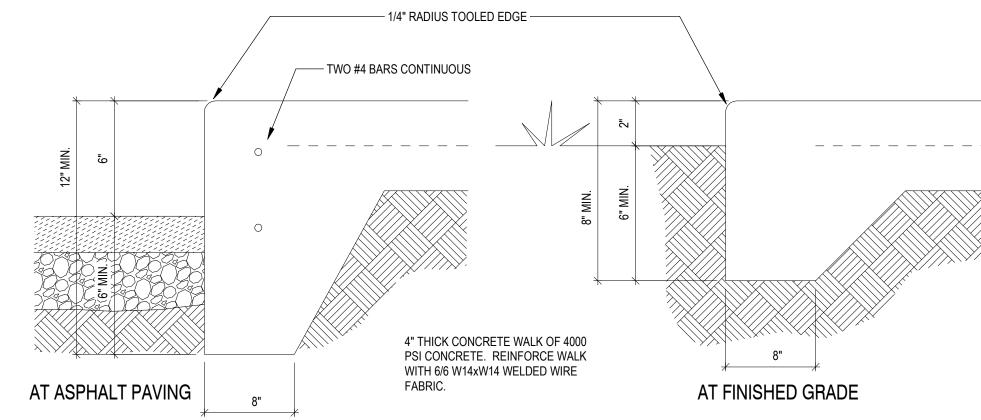
- 3. HOT GAS DEHUMIDIFICATION CYCLE
- 4. 100% OUTSIDE AIR ENTHALPY COMPARISON ECONOMIZER W/ BAROMETRIC RELIEF
- 5. SPACE CO2 SENSOR W/ LCD DISPLAY
- 6. HINGED ACCESS PANELS WITH HANDLES 7. LOUVERED HAIL GUARDS



CONDENSATE TRAP DETAIL M2.1 NOT TO SCALE







CONCRETE EDGE M2.1 NOT TO SCALE

PROVIDE LAMINATED NAMEPLATES ON ALL ELECTRICAL GEAR PER THE SPECIFICATIONS. SCREW OR POP RIVET TO COVERS. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY, NON-FUSED, 240V OR 600V, SOLID NEUTRAL, NEMA 1 OR NEMA 3R AS APPLIES UNLESS NOTED OTHERWISE.

MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. SLEEVE ALL RACEWAYS ROUTED THRU FOOTINGS OR GRADE BEAMS. CONTRACTOR SHALL FIRESTOP PER SPECIFICATIONS ALL CONDUIT PENETRATIONS THRU RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS WITH ARCHITECTURAL PLANS. CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND AVOID ANY WATER CARRYING PIPE INSTALLATION ABOVE ELECTRICAL GEAR AND/OR APPARATUS. SET SCREW AND INDENTER TYPE CONDUIT FITTINGS ARE NOT ALLOWED. ALL INTERIOR EXPOSED RACEWAY SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

ALL CONDUIT, JUNCTION AND OUTLET BOXES, AND RELATED ROUGH-IN MATERIAL ARE TO BE CONCEALED UNDER FLOORS. IN WALLS AND ABOVE FINISHED CEILINGS WHERE POSSIBLE UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS OR ON THE DRAWINGS. ALL CONDUITS SHALL BE ROUTED OVERHEAD UNLESS NOTED OTHERWISE OR SHOWN AS BELOW GRADE TO A DEVICE.

5. ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE CONDUCTOR OF #12 A.W.G. PROVIDE SOLID TYPE 'THW' OR 'THHN' FOR #12 A.W.G. AND #10 A.W.G. ALL FEEDER AND MOTOR/EQUIPMENT CONDUCTORS SHALL BE COPPER TYPE 'THHN' OR 'THWN'.

6. ALL EQUIPMENT SHALL BE BRACED FOR EARTHQUAKE. LIGHT FIXTURES TO HAVE EARTHQUAKE CLIPS AND INDEPENDENT SUPPORT WIRES AT OPPOSITE CORNERS. ALL CEILING MOUNTED EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE SECURED TO THE STRUCTURE WITH #12 GA STEEL WIRE ON TWO (2) SIDES. IN ADDITION, LIGHT FIXTURES SHALL BE SECURED TO THE CEILING WITH FACTORY UL LISTED EARTHQUAKE CLIPS.

7. ALL CIRCUITS, LIGHTING AND POWER, SHALL HAVE DEDICATED NEUTRAL CONDUCTORS WITH ONE PER EACH HOT CONDUCTOR-(NO SHARING OF NEUTRALS). ONLY 3 "HOT" CIRCUITS ALLOWED PER HOMERUN - U.N.O.

8. ALL OF THE FOLLOWING RECEPTACLES SHALL BE GFCI TYPE: RECEPTACLES FOR ELECTRIC WATER COOLERS

RECEPTACLES IN BATHROOMS OR WITHIN 6'-0 OF A SINK NEMA 5-20R RECEPTACLES FOR A KITCHEN OR CONCESSION AREA.

EXTERIOR RECEPTACLES SHALL BE GFCI AND WEATHER RESISTANT "WR" TYPE.

Note: FEED THROUGH PROTECTION OF GFCI OUTLETS ARE NOT ALLOWED.

MOUNT EXTERIOR DISCONNECTS FOR HVAC/MECHANICAL EQUIPMENT AT +48"A.F.G. TO TOP OF DISCONNECT OR, WHERE APPLICABLE, TOP OF DISCONNECT AT TOP OF ADJACENT SURROUNDING SCREEN WALL; WHICHEVER IS LOWER. COORDINATE LOCATIONS OF ALL DISCONNECTS WITH FINAL EQUIPMENT LOCATIONS PRIOR TO BEGINNING WORK AS NOT TO IMPEDE ANY EQUIPMENT ACCESS OR VIOLATE ANY NEC CLEARANCES REQUIREMENTS.

10. THE FINAL TYPEWRITTEN ELECTRICAL PANEL SCHEDULES SHALL REFLECT THE ACTUAL ROOM DESCRIPTIONS AND NUMBERS DEPICTED ON FINAL INSTALLED ROOM SIGNAGE. (FIELD VERIFY FOR

11. LOW-VOLTAGE, AUDIO/VISUAL AND INTERACTIVE DISPLAY BOARD CONDUITS ARE SIZED IN ACCORDANCE WITH VENDORS INSTALLING/UTILIZING "RAPIDRUN" OR "EZ-PULL" TYPE CABLES TO EQUIPMENT. CONTRACTORS PROVIDING AUDIO/VISUAL CABLING UNDER THIS PROJECT/CONTRACT SHALL UTILIZE THESE TYPES OF CABLES.

12. LIGHT FIXTURES SUBMITTED/PROVIDED SHALL MEET THE REQUIREMENTS OF THE DESIGNLIGHTS CONSORTIUM AND/OR BE ENERGYSTAR CERTIFIED.

13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SUBMITTING ALL POWER PACKS, RELAYS, SENSORS, CABLING, ETC AS REQUIRED TO PROVIDE COMPLETE AND OPERATIONAL OCCUPANCY CONTROLS IN COMPLIANCE WITH THE LATEST ENERGY CODES.

14. ALL CONDUITS ENTERING THE BUILDING FROM BELOW GRADE SHALL BE SEALED OFF FROM WATER INFILTRATION WITH CONDUIT SEALANT SYSTEM EQUAL TO POLY-WATER FST SYSTEM. ALL EMPTY STUBBED UP CONDUITS SHALL ALSO BE PROVIDE WITH THREADED CAP FOR COVER.

15. PROVIDE HANDLE-LOCK-OFF TYPE BREAKERS FOR ALL CIRCUITS FEEDING ELECTRIC RESISTIVE HEATERS (EH-#, CH-#, EDH-# FOR EXAMPLE).

NAMEPLATE NOTES

1. ALL ELECTRICAL EQUIPMENT, TIMER SWITCHES, SAFETY SWITCHES, STARTERS, PANELS, AND TRANSFORMERS SHALL HAVE LAMINATED BAKELITE NAMEPLATES SECURELY FASTENED TO

NAMEPLATE SIZE SHALL BE 1 1/2" x 4" WITH BEVELED EDGES AND 1/4" LETTERS.

NAMEPLATE SHALL INCLUDE PANEL OR EQUIPMENT DESIGNATION. INCLUDE AMPERAGE, VOLTAGE, PHASE, AND WIRE FOR THE PANELS, AND "PANEL FED FROM" FOR THE EQUIPMENT.

NAMEPLATES SHALL BE INSTALLED TO PANELS. CABINETS. SWITCHES. ETC. WITH RIVETS OR STAINLESS STEEL SCREWS. PLATES ATTACHED TO DRYWALL OR BLOCK ON INTERIOR MAY BE ADHESIVE BACK.

NAMEPLATES FOR 120 OR 208 VOLT EQUIPMENT SHALL BE BLACK, 277 OR 480 VOLT EQUIPMENT SHALL BE RED. LETTERS SHALL BE

6. EMBOSSED STICK BACK WILL NOT BE ALLOWED.

NAMEPLATES FOR SWITCHES MAY BE OMITTED FOR FURNACES WHEN THE EQUIPMENT WHICH IS SERVED IS OBVIOUS TO SERVICE

8. WHERE EQUIPMENT DISCONNECT IS AT A PANEL, SECURE NAMEPLATE (WITH UNIT DESIGNATION AND "FED FROM PANEL") TO THE EQUIPMENT.

E1.1 NOT TO SCALE

TS/H CO2

TOP TOP

RING RING

1GANG/ 1GANG/ 1GANG 1GANG

REFER TO MECHANICAL

LOCATIONS/ORIENTATION.

SHEETS FOR EXACT

←SEE NOTE 6.

KEYED ELECTRICAL NOTES:

1 > REMOVE/INTERCEPT & PROVIDE NEW 30A/3P NFDS NEMA 3R HEAVY DUTY DISCONNECT W/ (3#10,#10G,3/4"C) SEAL-TITE CONNECTION TO UNIT. STRAP/SECURE PER NEC. PROVIDE NEW 30A/3P BREAKER IN EXISTING PANEL.

 \langle 2 \rangle PROVIDE AN ADDITIONAL 3/4"C INTO CLASSROOM FOR

CONTROL WIRING.

MINIMUM WIRING NOTES

WHETHER SHOWN OR NOT - THE CONTRACTOR SHALL PROVIDE THE MINIMUM WIRE NOTED BELOW FOR ALL EQUIPMENT CONNECTIONS:

WIRE: #12AWG 25A-30A #10AWG 35A-40A #8AWG 45A-55A #6AWG 55A-70A #4AWG 70A-85A #3AWG 85A-100A #2AWG

PANEL A

225A, 208Y120, 3 φ,4W

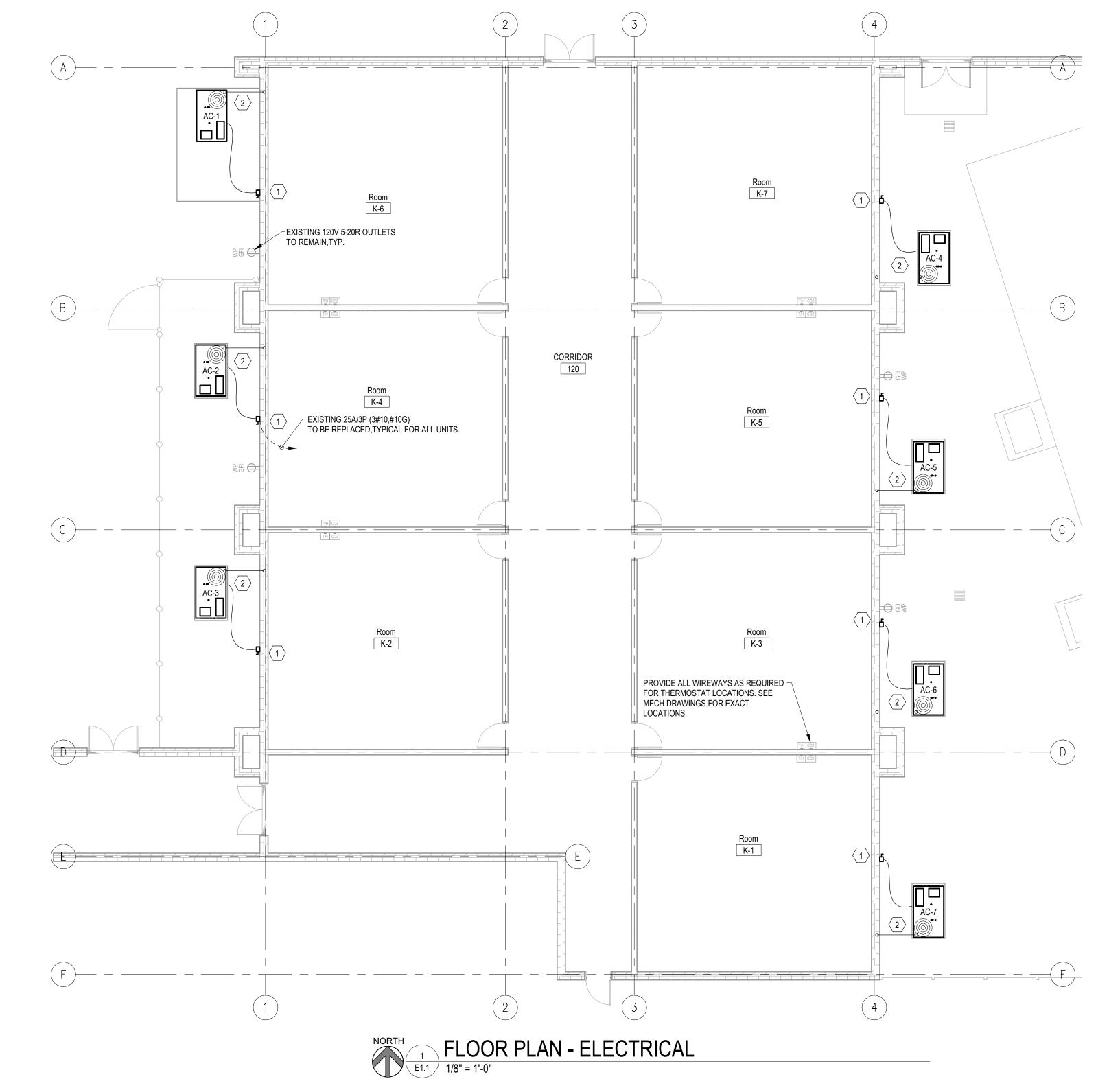
TYPICAL PANEL NAMEPLATE

CU-1

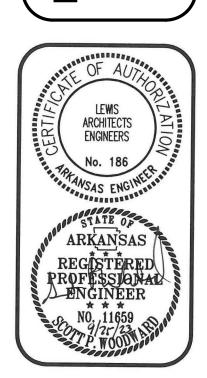
FED FROM PANEL E

TYPICAL EQUIPMENT NAMEPLATE

			ELECTRIC/	4L	JENU									
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION											
\bigoplus	RECEPTACLE, DUPLEX - 18" A.F.F. UNLESS NOTED OTHERWISE.				FIRE ALARM DETECTOR - AUTOMATIC, ADDRESSABLE, CEILING MOUNTED									
•	RECEPTACLE, DUPLEX - CEILING FLUSH MOUNT. PROVIDE 6FT WHIP FROM J-BOX ABOVE CEILING TO	SD 'SD' DENOTES SMOKE DETECTOR HD 'HD' DENOTES HEAT DETECTOR DSD DSD DSD PRET 'DSD' DENOTES DUCT SMOKE DETECTOR (SUP=SUPPLY/RET=RETURN) HEIGHT: [+48", IN REGARDS TO FIRE ALARM, IS TO THE TOP OF BOX]												
	3/4" COUPLING - FLUSH WITH FINISH FLOOR - CONNE													
₩ / ₩	DUPLEX/QUAD ABOVE COUNTER RECEPTACLE, COOL [TYPICALLY, +6" TO BOTTOM OF BOX FROM COUNTER													
\bigoplus	QUAD RECEPTACLE (DOUBLE DUPLEX) - 18" A.F.F. UN	NLESS NOTED OTHERV	/ISE.	[+80", IN REGARDS TO FIRE ALARM, IS TO THE BOTTOM OF BOX] FA NOTES: "cd"= CANDELA RATING										
Ф	SPECIAL RECEPTACLE, NEMA STYLE AS NOTED - VER	ERIFY SIZE WITH EQUIP	MENT	J/J				T TO EQUIPMENT AS REQU		. TOP				
	DUPLEX/QUAD RECPT IN FLUSH MOUNTED FLOORBO FLOOR BOX(ES) [MULTI-GANG WALKER RFB6-OG SER		OR'D WITH SYSTEMS	T				REQ'D BY MECHANICAL AT ([SEE MECH PLANS FOR LO) 10P				
GECI	INDICATES GROUND FAULT CIRCUIT INTERRUPTER T		WIRE DESIGNATIONS - H	IOT, SWITCH	I, NEUTRAL, GR	OUND, ISOLATED GROUND,	RESPECTIVE	ELY.						
I IG	INDICATES TAMPER-RESISTANT TYPE INDICATES ISOLATED GROUND TYPE (PROVIDE SEPARATE NEUTRALS/GROUNDS ON ALL "IG" CIRCUITS) [+18", IN REGARDS TO RECEPTACLES, IS TO THE CENTERLINE OF BOX]				WIRE IN CONDUIT-CEILIN	NG OR WALL	WIRE IN CONDUIT - UN	VIRE IN CONDUIT - UNDERFLOOR. (SEE REQ'S IN SPECS)						
HEIGHT:	SWITCH - SINGLE POLE, 4'-0" A.F.F.	•	SLE DISC. SWITCH-MTD AS NOTED	HOMERUN TO PANEL CONDUIT STUB/S				EEVE WEATHE	RHEAD - SIZI	E AS NOTED ON PLANS				
\$3	SWITCH - THREE WAY, 4'-0" A.F.F.	\$4 SWITCH - FOUR V	VAY, 4'-0" A.F.F.	MC	MAGNETIC CONTACT(SECURITY) CR CARE			READER - ACCESS	К	KEYPAD - INTRUS.				
\$ _D	DIMMER - 4'-0" A.F.F TYPE AS NOTED/REQUIRED BY	Y MANU'		ELECTROMAGNETIC LOCK - ACCESS CONTROL			CONTROL	EX EXIT REQUEST BUTTON - ACCESS CONTROL						
		FIXTURE BEING CONTROLLED - SUBMIT WITH LIGHTING PACKAGE. V VOLTAGE SWITCH - TYPE AS NOTED, MOUNT BACKBOX AS REQ'D AT 4'-0" A.F.F. TO TOP H 3/4"C MIN. TO ABOVE ACCESSIBLE CEILING.				PIR PIR SENSOR FOR DOOR RELEASE				PB DOOR RELEASE PB / TWO-WAY INTERCOM				
\$ _{LV}	WITH 3/4"C MIN. TO ABOVE ACCESSIBLE CEILING.					SECURITY/DOOR POWER SUPPLY			MD / GB MOTION DETECTOR / GLASS BREAK					
\$ _F	VARIABLE SPEED CONTROLLER FOR CEILING FAN - 4'-0" A.F.F. REFER TO CEILING FAN SPECIFICATION FOR MODEL NUMBER. \$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$				ELECT POWER TRANSFI	ER HINGE		ES ELECTRIC DOOR	STRIKE /	EL ELECTRIC LATCH				
⊢E ⊢M	LOW VOLTAGE LIGHTING ZONE SWITCH - TYPE AS NO WITH 3/4"C MIN. TO ABOVE ACCESSIBLE CEILING. "E"		PANIC	PANIC HARDWARE DOO	R RELEASE	CEI	LING CAMERA - CCTV	H	WALL CAMERA - CCTV					
HEIGHT:	[+48"AFF, IN REGARDS TO ALL LIGHTING SWITCHES,	[+48"AFF, IN REGARDS TO ALL LIGHTING SWITCHES, IS TO THE TOP OF BOX] \$\(\sigma\) INDICATES KEYED SWITCH					HEIGHT: [IN REGARDS TO SECURITY, +48"AFF IS TO TOP OF BOX - UNO] ABBREVIATIONS: AC - ABOVE COUNTER							
\$ _M	MANUAL MOTOR STARTER, SQUARE 'D' TYPE FG w/ C MOUNT AT 4'-0" A.F.F. TO TOP AND MARK WITH BAKE			WP - WEATHERPROOF (3R) NS - NON-SWITCHED HP - HORSEPOWER C - CONDUIT ("EMT" OR "RIGID" AS SPECIFIED) PVC ELECT GRADE BVC CONDUIT (SCH. AS										
X	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH W/HOA SWITCH, RUN PILOT LIGHT AND AUX. CONTACTS FUSED DISCONNECT - w/GROUNDING LUG, SIZE/FUSE AS NOTED ON PLANS DISCONNECT SWITCH - w/GROUNDING LUG, SIZE AS NOTED ON PLANS				EM - INDICATES EMERGENCY EGRESS FIXTURE TC - TIME CLOCK LC - LIGHTING CONTACTOR AV - INDICATES AUDIO/VISUAL DEVICE									
					FA - FIRE ALARM EWC - ELECTRIC WATER COOLER U.N.O UNLESS NOTED OTHERWISE AF - FIRE ALARM SB - INDICATES ANDVE FINISHED FLOOR A.F INDICATES ANDVE FINISHED FLOOR A.					ED FLOOR				
					WG - WIRE PROTECTIVE GUARD WG - WIRE PROTECTIVE GUARD WG - WIRE PROTECTIVE GUARD F.D.S FUSIBLE DISCONNECT SWITCH									
	NOTE: REFER TO GENERAL ELECTRICAL NOTES FOR	OR ADDITIONAL DISCON	NECT REQUIREMENTS.	*- DASHED INDICATES EXISTING OR BELOW GRADE AS N.F.D.S NON-FUSIBLE DI										
√√°	ELECTRIC ELEMENT - SEE PLANS FOR WATTAGE (MA	AKE ALL FINAL CONNEC	CTIONS)	NOTED										
\Diamond	EQUIPMENT - SIZE AS NOTED ON PLANS (MAKE ALL F	FINAL CONNECTIONS)												
9	MOTOR - SIZE AS NOTED ON PLANS (MAKE ALL FINAL	L CONNECTIONS)												
	SURFACE MOUNTED PANEL BOARD	FLUSH MOUNT	TED PANEL BOARD											



ELEMENT, PLACEME



PROJECT NO: 23072 DRAWN BY: REVISION:

1 OF 1