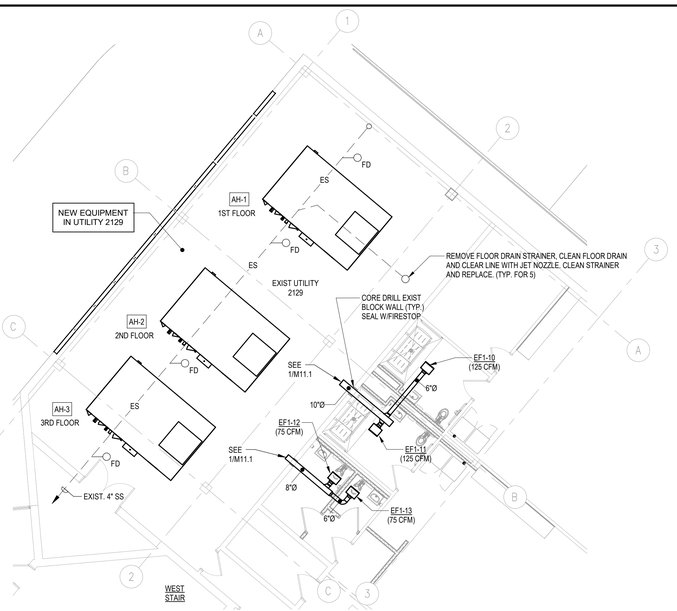
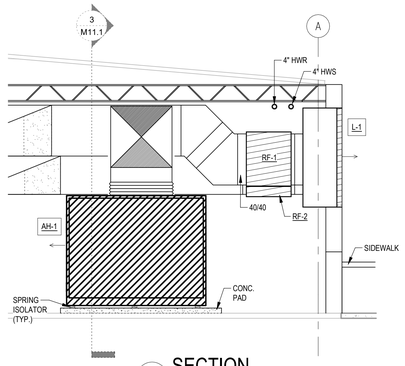


NORTH

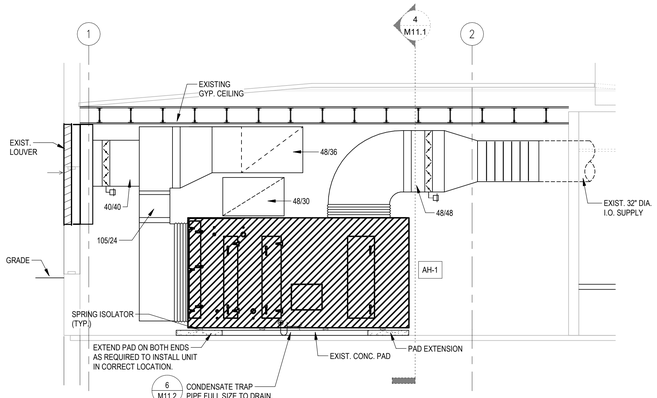
5 M11.1 PARTIAL FLOOR PLAN - AREA A - MAIN LEVEL - HVAC

1/8" = 1'-0"



4 M11.1 SECTION

1/4" = 1'-0"

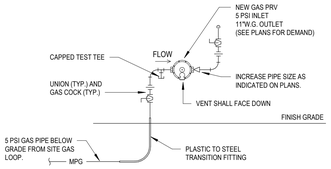


3 M11.1 SECTION _

1/4" = 1'-0"

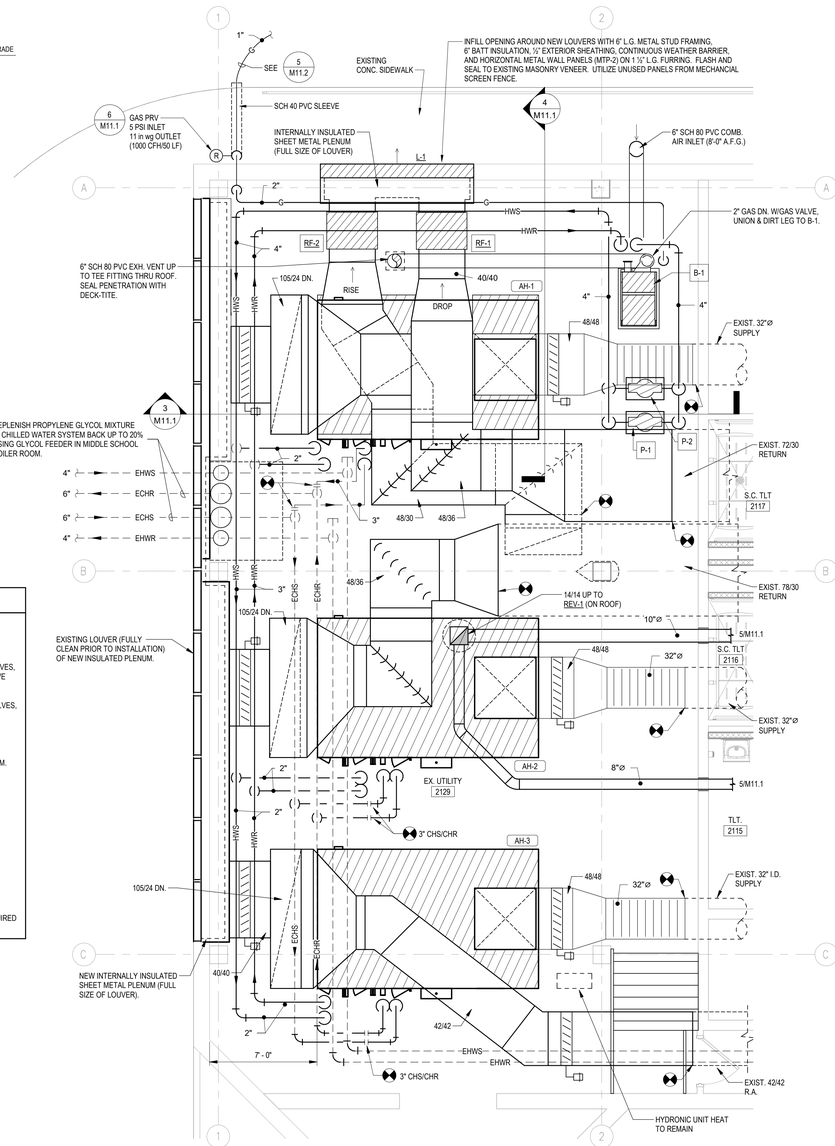
MECHANICAL LEGEND

- FLEXIBLE DUCT CONNECTION
- TURNING VANES
- MOTORIZED DAMPER
- DOUBLE WALL SPIRAL DUCT WITH 1" PERFORATED INSULATION LINER (SIZE ON DRAWINGS REPRESENTS INTERNAL DIA.)
- FULL RADIUS ELBOW
- 1 M-2 / 1 M-2 DETAIL NUMBER - TOP NUMBER INDICATES DETAIL NUMBER BOTTOM NUMBER INDICATES SHEET NUMBER
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- ECHS — EXISTING CHILLED WATER SUPPLY
- ECHR — EXISTING CHILLED WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- EHWS — EXISTING HOT WATER SUPPLY
- EHWR — EXISTING HOT WATER RETURN
- G — NATURAL GAS PIPING
- EG — EXISTING GAS PIPING
- F — FIRE SPRINKLER
- ES — EXISTING SANITARY SEWER
- SS — SANITARY SEWER
- CONNECT TO EXISTING
- A.F.G. — ABOVE FINISH GRADE
- DIAMETER (DIA.)
- REDUCER / INCREASER FITTING
- PIPE TO DRAIN



6 M11.1 GAS PRV

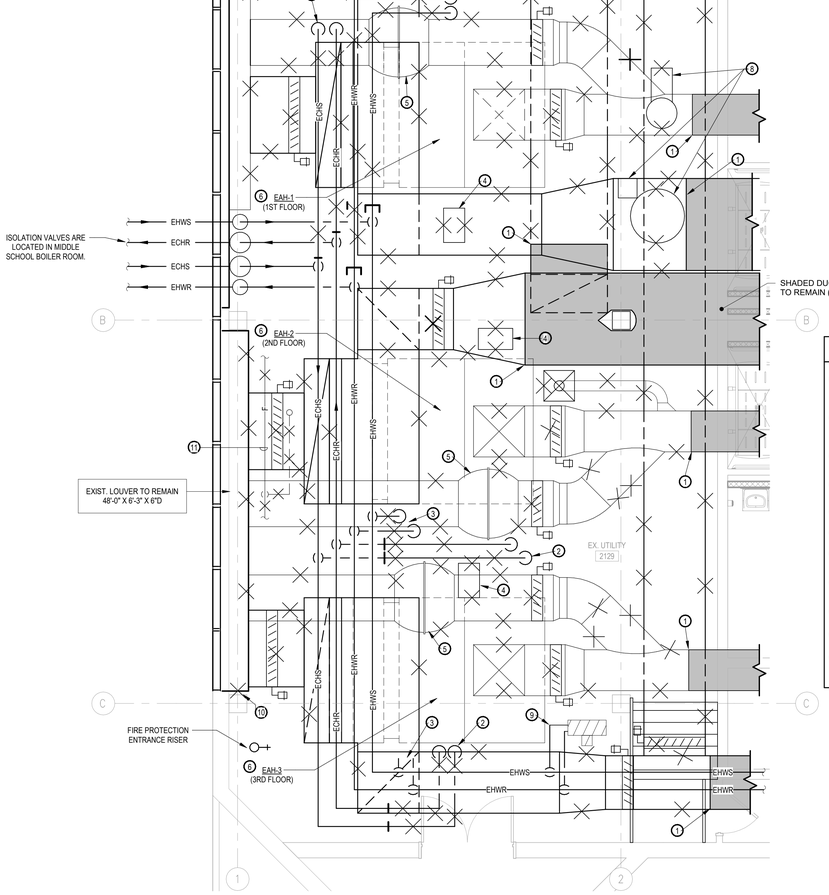
1/8" = 1'-0"



NORTH

1 M11.1 PARTIAL FLOOR PLAN - MAIN LEVEL - AREA A - HVAC

1/4" = 1'-0"



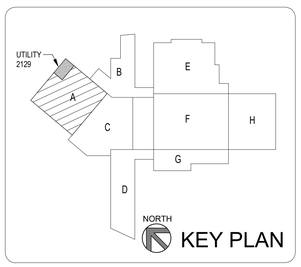
DEMOLITION KEYED NOTES

1. REMOVE DUCTWORK & DAMPERS INSIDE UTILITY RM. TO THIS LOCATION. DUCTWORK ENTERING/EXITING THIS ROOM SHALL REMAIN AND CONNECTED TO NEW DUCTWORK.
2. DISCONNECT AND REMOVE CHILLED WATER PIPING, INCLUDING CONTROL VALVES, GATE VALVES, ETC. UP TO ELEVATED LOCATION AND INSTALL ISOLATION VALVE FOR CONNECTION TO NEW EQUIPMENT.
3. DISCONNECT AND REMOVE HEATING WATER PIPING, INCLUDING CONTROL VALVES, GATE VALVES, ETC. TO TEE CONNECTION ON MAIN LINES AND CAP.
4. DISCONNECT AND REMOVE STEAM HUMIDIFIER AND PIPING. CAP COLD WATER SUPPLY LINE AT SOURCE.
5. REMOVE ATRIUM SMOKE CONTROL IN-LINE SUPPLY FAN AND SUPPORT SYSTEM.
6. DISASSEMBLE AND REMOVE AIR HANDLING UNIT AND SPRING ISOLATORS.
7. REMOVE WALL LOUVER AND PLENUM. USE OPENING FOR EQUIPMENT REMOVAL AND INSTALLATION.
8. REMOVE FOUNTAIN PUMPS, PIPING AND FILTRATION SYSTEM. INSTALL BLANK FLANGES AT WALL.
9. HYDRONIC UNIT HEATER AND CONTROLS TO REMAIN.
10. REMOVE PLENUM BOX
11. LICENSED FIRE PROTECTION CONTRACTOR SHALL SHUTDOWN, REMOVE AND REPLACE FIRE SPRINKLER SYSTEM MAIN /BRANCH LINES AND HEADS AS REQUIRED TO DEMO AND INSTALL NEW EQUIPMENT. (TYPICAL FOR ENTIRE ROOM).

NORTH

2 M11.1 PARTIAL FLOOR PLAN - MAIN LEVEL - AREA A - DEMO

1/4" = 1'-0"



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FLOOR PLAN - MAIN LEVEL - AREA A - HVAC

LITTLE ROCK WEST HIGH SCHOOL

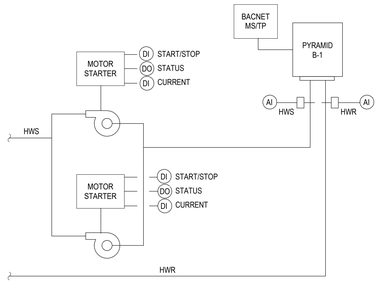
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION — LEWIS ARCHITECTS ENGINEERS — No. 186 — ARKANSAS ENGINEER — NOLAN

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 7612 — RANDALL M. RAGSDALE

DATE: 2026 04-07
PROJECT NO: 22033
DRAWN BY: RAB
REV:

M11.1

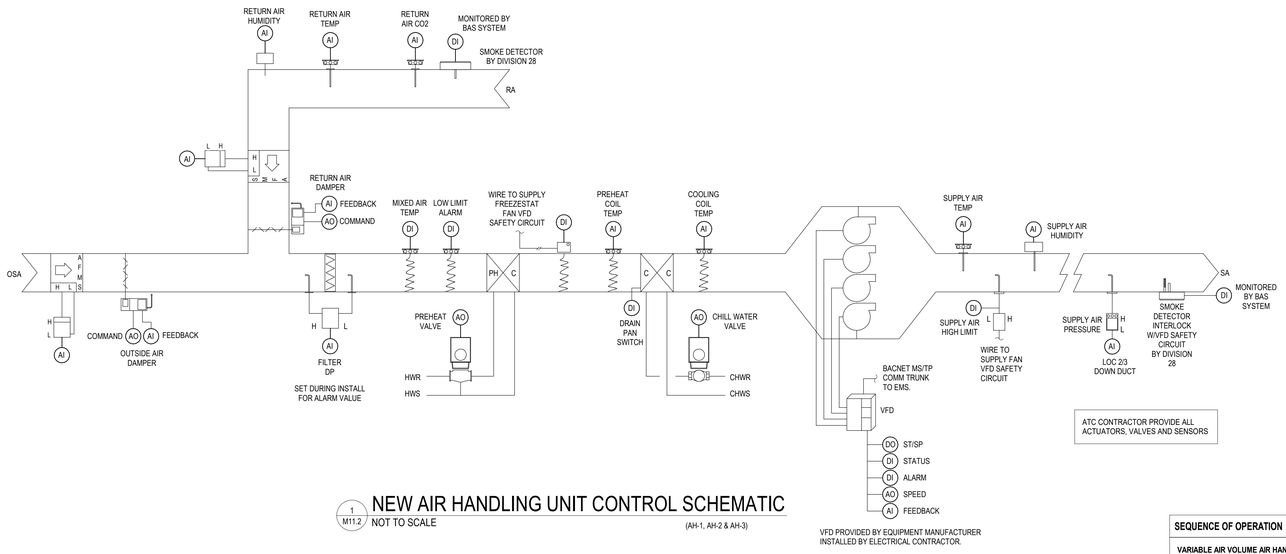


PYRAMID PRE HEAT BOILER SEQUENCE

HOT WATER PUMP SHOULD BE ENABLED ANYTIME OUTSIDE AIR TEMPERATURE IS BELOW 50 DEG. F. (ADJ.) OR PREHEAT DEMAND FROM PYRAMID AIR HANDLER UNITS. HOT WATER PUMPS ALTERNATE TO EQUALIZE RUNTIME. SELECTION OF THE LEAD PUMP IS EVALUATED ON A WEEKLY BASIS. THE PUMP WITH THE LEAST RUNTIME IS THE LEAD PUMP. THE PUMP WITH THE MOST RUNTIME IS THE LAG PUMP. THE BOILER SHALL BE ENABLED ANYTIME THERE IS A PRE HEAT VALVE DEMAND, HOT WATER SUPPLY TEMPERATURE SHALL RESET BETWEEN 130 DEG. F AND 160 DEG F TO MAINTAIN MAXIMUM OF 80% PREHEAT VALUE POSITION.

2 M11.2 NEW HOT WATER BOILER AND PUMP CONTROL SCHEMATIC

NOT TO SCALE

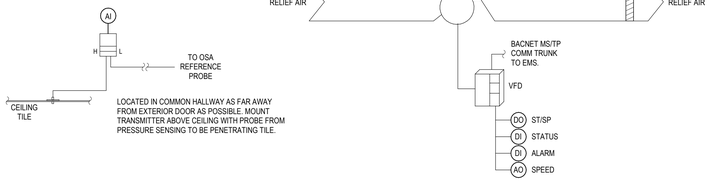


VFD PROVIDED BY EQUIPMENT MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.

1 M11.2 NEW AIR HANDLING UNIT CONTROL SCHEMATIC

NOT TO SCALE

(AH-1, AH-2 & AH-3)

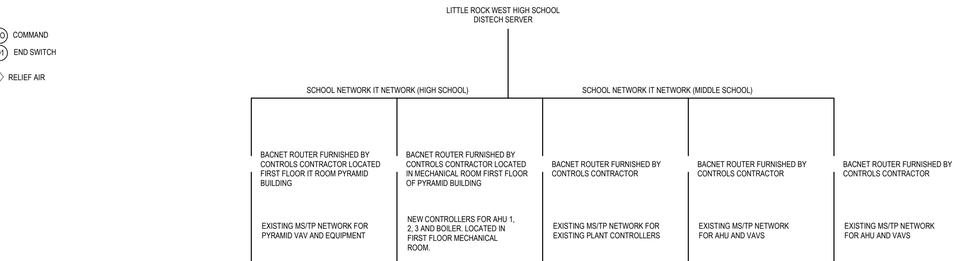


BUILDING PRESSURE SEQUENCE OF OPERATION

THE BUILDING PRESSURE CONTROL FANS WILL BE ENABLED WHEN EITHER AIR HANDLER IS ENABLED AND THE AHU MODE OF OPERATION IS IN THE OCCUPIED MODE. THE BUILDING PRESSURE CONTROL FANS WILL BE STAGED ON AND OFF AS NEEDED TO MAINTAIN BUILDING PRESSURE. RELIEF FANS SHALL ONLY START ONCE IT'S ASSOCIATED DAMPER END SWITCH HAS PROVED OPEN. ITS ASSOCIATED VARIABLE FREQUENCY DRIVE WILL BE MODULATED AS REQUIRED TO MAINTAIN BUILDING PRESSURE SETPOINT.

3 M11.2 BUILDING PRESSURE CONTROL SCHEMATIC

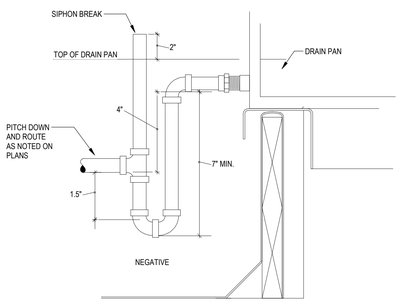
NOT TO SCALE



ALL BACNET ROUTERS AND CONTROL PANELS SHALL BE ON DEDICATED ELECTRICAL CIRCUITS.

4 M11.2 DISTECH CAMPUS NETWORK

NOT TO SCALE

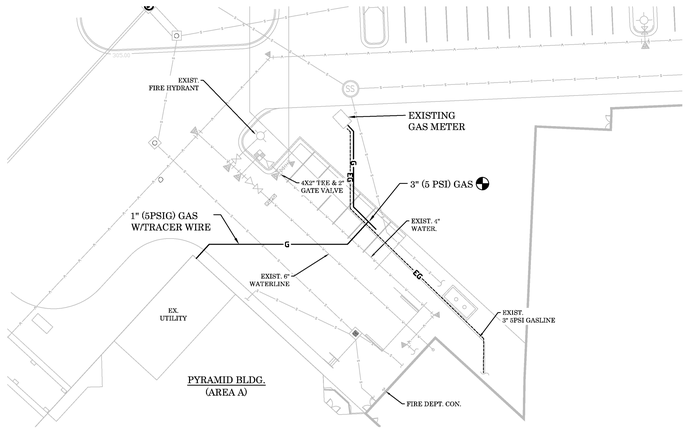


NOTES:

1. RUNNING TRAPS WILL NOT BE ACCEPTED.
2. INSTALL FACTORY FURNISHED TRAP WITH PACKAGED OUTSIDE AIR UNITS (POAU).
3. EXTERIOR CONDENSATE LINES - SCH 80 PVC.
4. INTERIOR CONDENSATE LINES - TYP L COPPER.

6 M11.2 CONDENSATE TRAP DETAIL

NOT TO SCALE



NORTH

5 M11.2 PARTIAL SITE PLAN - AREA A/B

1/8" = 1'-0"

SEQUENCE OF OPERATION

VARIABLE AIR VOLUME AIR HANDLER UNITS (TYP. OF 3)

THE VARIABLE VOLUME AIR HANDLER CONSISTS OF A MIXED AIR SECTION WITH OUTDOOR AIR AND RETURN AIR DAMPERS, PRE-FILTER, HOT WATER PREHEAT COIL, CHILLED WATER COOLING COIL, SUPPLY FAN WITH VARIABLE FREQUENCE DRIVE. THE UNIT IS DDC CONTROLLED USING ELECTRIC ACTUATION.

THE AIR HANDLER UNIT IS SCHEDULED FOR AUTOMATIC OPERATION ON A TIME OF DAY BASIS FOR OCCUPIED AND UNOCCUPIED MODES OR A BUILDING DEMAND IN UNOCCUPIED, WITHIN THE OCCUPIED MODE, THE SYSTEM CAN ENTER THE WARM-UP MODE WHEN THE AVERAGE SPACE TEMPERATURES ARE BELOW SET POINT OR THE COOL DOWN MODE WHEN THE AVERAGE SPACE TEMPERATURE IS ABOVE THE SET POINT. THE SYSTEM STAYS IN THE WARM-UP OR COOL-DOWN UNTIL THE MODE SET POINT IS SATISFIED. WITHIN THE UNOCCUPIED MODE, NIGHT HEATING IS AVAILABLE WHEN THE AVERAGE SPACE TEMPERATURE DROPS BELOW 65 DEGREES F. OR ANY SPACE TEMPERATURE IS LESS THAN 50 DEGREES F. THE LATEST START TIME IS THE SCHEDULED OCCUPANCY FOR THE SPACE.

THE AIR HANDLING UNIT OPERATES IN WARM-UP, COOL-DOWN, OCCUPIED, UNOCCUPIED, NIGHT HEATING AND SAFETY MODES AS FOLLOWS (ALL SUGGESTED SET POINTS AND SETTINGS ARE ADJUSTABLE):

WARM-UP
THE SUPPLY FAN STARTS, THE COOLING COIL VALVE STAYS CLOSED AND THE MIXING DAMPERS MODULATE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT. WHEN THE OUTSIDE AIR DRY BULB TEMPERATURE IS BELOW THE ECONOMIZER CHANGEOVER VALUE THE PRE HEAT VALVE MODULATES TO MAINTAIN SUPPLY AIR TEMP. COOLING VALVE REMAINS CLOSED. AND MIXING DAMPERS ARE POSITIONED TO 100% RETURN AIR.

COOL-DOWN
THE SUPPLY FAN STARTS, PREHEAT COIL VALVE STAYS CLOSED, THE COOLING VALVE AND THE MIXING DAMPERS MODULATE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET POINT. WHEN THE OUTDOOR AIR DRY BULB TEMPERATURE IS ABOVE THE ECONOMIZER CHANGEOVER VALUE, THE MIXING DAMPERS ARE POSITIONED FOR 100% RETURN AIR. IF THE TIME REACHES THE LATEST START TIME DURING THE COOL-DOWN MODE, THE OUTDOOR AIR DAMPER OPENS TO ITS MINIMUM POSITION OR IS CONTROLLED IN ECONOMIZER OPERATION. THE SYSTEM IS PREVENTED FROM ENTERING THE COOL-DOWN MODE MORE THAN ONCE PER DAY.

OCCUPIED
THE FAN STARTS OR CONTINUES TO RUN AND THE UNITS IS CONTROLLED AS FOLLOWS

WHEN THE OUTSIDE AIR DRY BULB TEMPERATURE IS BELOW THE ECONOMIZER CHANGEOVER VALUE. THE HEATING SECTION, THE COOLING COIL VALVE AND THE MIXING DAMPERS MODULATE IN SEQUENCE WITHOUT OVERLAP TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT WITH A LOW LIMIT OF 48 DEGREES AT THE MIXED AIR SENSOR. THE MIXING DAMPERS RAMP OPEN SLOWLY TO MINIMIZE OVERSHOOTING.

WHEN THE AHU IS IN THE OCCUPIED MODE, THE DAMPER SECTION WILL BE MODULATED AS REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR VOLUME AS DETERMINED BY THE RETURN AIR CO2 SENSORS OR A CALCULATION INVOLVING THE SUM OF THE AMOUNT OF OCCUPIED SPACES WITHIN THE BUILDING. WHICHEVER IS GREATER. THE MINIMUM OSA DAMPER CFM SET POINT WILL BE RESET UPWARD AS THE RETURN AIR CO2 LEVELS RISE OR AS THE BUILDING ZONES BECOME OCCUPIED. THE CFM SET-POINT WILL BE RESET DOWNWARD AS THE RETURN AIR CO2 LEVELS DROP OR AS THE BUILDING ZONES ARE NO LONGER OCCUPIED. WHEN ECONOMIZER IS DISABLED THE SUPPLY AIR SETPOINT SHOULD BE RESET BETWEEN 50 DEGREES F AND 55 DEGREES F BASED ON VAV TERMINAL LOAD AND RETURN HUMIDITY.

UNOCCUPIED (NORMAL OFF)
THE SUPPLY FAN STOPS, THE COOLING COIL VALVE CLOSES. MIXING DAMPERS CLOSE TO THE OUTDOOR AIR, THE HEATING COIL VALVE CLOSES. (IF OUTSIDE AIR TEMPERATURE IS BELOW 40 DEGREES MODULATE PREHEAT COIL TO MAINTAIN 40 DEGREE MIXED AIR TEMPERATURE.)

NIGHT HEATING
THE SUPPLY FAN IS ON, THE PREHEAT COIL VALVE MODULATES TO MAINTAIN A MINIMUM RETURN OF 65 DEGREES. THE MIXING DAMPERS ARE POSITIONED TO 100% RETURN AIR, AND THE COOLING COIL VALVE REMAIN CLOSED.

STATIC PRESSURE CONTROL
THE SUPPLY FAN VARIABLE FREQUENCY DRIVE MODULATES TO MAINTAIN A CONSTANT DUCT STATIC PRESSURE OF 1.5 INCHES OF WATER (ADJ.) AS SENSED AT LEAST TWO-THIRDS OF THE WAY DOWNSTREAM OF THE SUPPLY FAN IN THE LONGEST OR MOST CRITICAL DUCT. UPON INTIAL START-UP OF THE AIR HANDLING SYSTEM, THE SUPPLY FAN SPEED SLOWLY RAMPS TO THE DESIRED STATIC PRESSURE SET POINT. UPON SHUTDOWN OF THE AIR HANDLER SYSTEM, THE SUPPLY FAN VARIABLE FREQUENCY DRIVE STOPS AND THE SPEED SIGNAL GOES TO ZERO SPEED.

SAFETY
DISCHARGE HIGH STATIC CUTOUT. SMOKE DETECTOR IN THE SUPPLY AND RETURN AIR STREAMS SHUT DOWN FAN AND IF OUTSIDE AIR TEMPERATURE IS BELOW 45 DEGREE MODULATE PREHEAT COIL VALVE TO MAINTAIN 40 DEGREE TEMPERATURE AT THE PREHEAT LEAVING AIR TEMPERATURE SENSOR.

IF LOW TEMPERATURE FREEZESTAT ALARM IS DETECTED AT THE DISCHARGE OF THE PREHEAT COIL DE-ENERGIZE THE SUPPLY FAN, MODULATE THE PREHEAT COIL VALVE TO MAINTAIN 45 DEGREE TEMPERATURE AT THE PREHEAT LEAVING AIR TEMPERTURE SENSOR. IF PREHEAT TEMP IS BELOW 40 DEG. F AND FREEZESTAT TRIPS OPEN COOLING COIL VALUE TO 50%.

A FEEDBACK FROM THE VFD AND THE DUCT STATIC READINGS VERIFY THAT THE FAN IS OPERATING CORRECTLY. IF THE FAN IS PROVED TO BE ENABLED BUT NOT REACHING DUCT STATIC SETPOINT FOR GREATER THAN 10 MINUTED GENERATE AND ALARM. THE DDC SYSTEM SHALL GENERATE A VFD TROUBLE ALARM INDEPENDENT FROM THE FAN STATUS. IF THE SUPPLY FAN DOES NOT MATCH THE DESIRES STATE (OFF, ON) THE DDC SHALL GENERATE A FAN STATUS ALARM.

ALARMS (MINIMUM)
DUCT STATIC NOT REACHING SETPOINT WITH SUPPLY FAN ENABLED.
FREEZESTAT ALARM
SMOKE DETECTOR ALARM
DRAIN PAN ALARM
HIGH STATIC ALARM
FAN STATUS ALARM
OUTSIDE AIR FLOW NOT REACHING SETPOINT
RETURN AIR HUMIDITY ABOVE 70% RH
RETURN AIR CO2 ABOVE 1500 PPM
BUILDING PRESSURE NOT REACHING SETPOINT
ANY VFD ALARM STATUS

TRENDS (MINIMUM)
<u>TREND IN 15 MINUTE INTERVALS</u>
SUPPLY TEMPERATURE
SUPPLY TEMPERATURE SETPOINT
PREHEAT COIL TEMPERATURE
PREHEAT COIL TEMPERATURE SETPOINT
MIXED AIR TEMPERATURE
MIXED AIR TEMPERATURE SETPOINT
OUTSIDE AIR FLOW
OUTSIDE AIR FLOW SETPOINT
OUTSIDE AIR DAMPER COMMAND
RETURN AIR DAMPER COMMAND
PREHEAT VALVE COMMAND
CHILL WATER VALVE COMMAND
RETURN AIR TEMPERATURE
RETURN AIR HUMIDITY
FILTER DP

<u>TRENDS IN CHANGE OF VALUE (MINIMUM)</u>
SUPPLY FAN ENABLE
SUPPLY FAN STATUS
SUPPLY FAN ALARM
DRAIN PAN SWITCH STATUS
HIGH STATIC STATUS
SMOKE DETECTOR STATUS

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HVAC SCHEDULES & CONTROLS

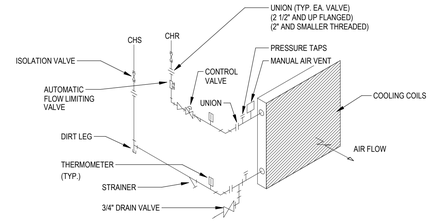
LITTLE ROCK WEST HIGH SCHOOL
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION — LEWIS ARCHITECTS ENGINEERS — No. 186 — ARKANSAS ENGINEER

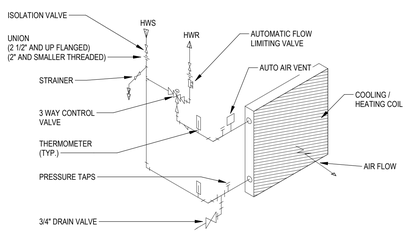
STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No.7812 — RANDALL M. RIGGINS

DATE:	2026-04-07
PROJECT NO:	22033
DRAWN BY:	RAB
REV:	

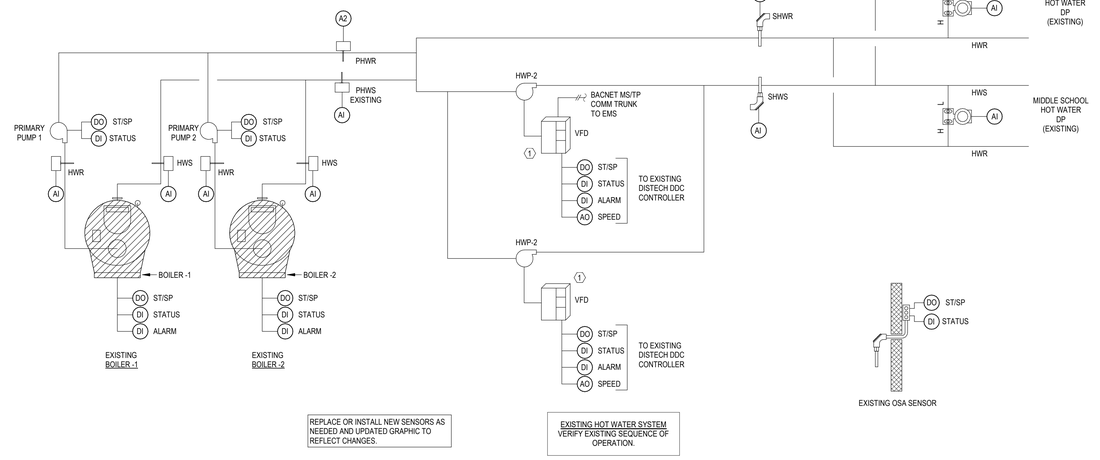
M11.2



2 M11.3 CHILLED WATER COIL PIPING
NOT TO SCALE



3 M11.3 HEATED WATER COIL PIPING
NOT TO SCALE



1 M11.3 MIDDLE SCHOOL HOT WATER SYSTEM CONTROL SCHEMATIC
NOT TO SCALE

EXISTING HOT WATER SYSTEM SEQUENCE OF OPERATION

THE EXISTING HOT WATER SYSTEM SHALL SERVE HOT WATER TO THE PYRAMID AND MIDDLE SCHOOL AREAS INCLUDING VARIABLE AIR VOLUME TERMINALS AND HOT WATER PREHEAT COIL FOR THE AIR HANDLING UNITS. LOCATED IN MIDDLE SCHOOL.

THE EXISTING HOT WATER SYSTEM EQUIPMENT INCLUDES 2-HOT WATER BOILERS, 2-HOT WATER SYSTEM PUMPS AND EXISTING SENSORS, DDC CONTROLS, ALL EXISTING FIELD POINTS, CONDUIT, AND WIRE TO REMAIN.

THE EXISTING BOILERS SHALL BE STAGED TO MAINTAIN THE HOT WATER SYSTEM SETPOINT DETERMINED BY HOT WATER VALVE POSITIONS AND OUTSIDE AIR TEMPERATURE. WHEN THE OUTSIDE AIR TEMPERATURE IS 50 DEGREES F OR LESS THE HOT WATER SETPOINT SHOULD BE 180 DEGREES F. THE SETPOINT SHALL RESET LINEARLY TO MAINTAIN CRITICAL HOT WATER VALVE POSITION AND PREVENT BOILER RETURN TEMPERATURE FROM DROPPING BELOW 130 DEGREES F (ADJ.) OR MANUFACTURER RECOMMENDATION.

THE EXISTING HOT WATER SYSTEM WILL BE ENABLED WHEN THE BUILDING IS OCCUPIED. IF ANY AIR HANDLER IS RUNNING UNOCCUPIED HEAT DEMAND FROM BUILDING, OR OUTSIDE AIR TEMPERATURE IS BELOW 50 DEGREES F (ADJ.). WHEN THE SYSTEM IS ON THE HOT WATER PUMPS WILL START AND RAMP UPWARD TO MAINTAIN BUILDING DP SETPOINT (LEAD - LAG ALTERNATE PUMPING SCHEME WILL BE USED TO CONTROLS THE PUMPS).

THE VFD SPEED WILL BE MODULATED TO MAINTAIN BOTH THE MINIMUM DIFFERENTIAL PRESSURE SET POINTS FOR THE EXISTING 3-WAY VALVE SIDE OF THE BUILDING AND THE REMODELED 2-WAY VALVE SIDE OF THE BUILDING.

ALARMS (MINIMUM)
ANY DP SENSOR HAS A STALE VALUE FOR ANY REASON OR SECONDARY HOT WATER PUMP IS AT 100% WITHOUT A LOOP DP CHANGE OF VALUE IN 10 MINUTES.

HOT WATER LOOP TEMPERATURE DROPS BELOW HOT WATER LOOP SET POINT FOR GREATER THAN 10 MINUTES.

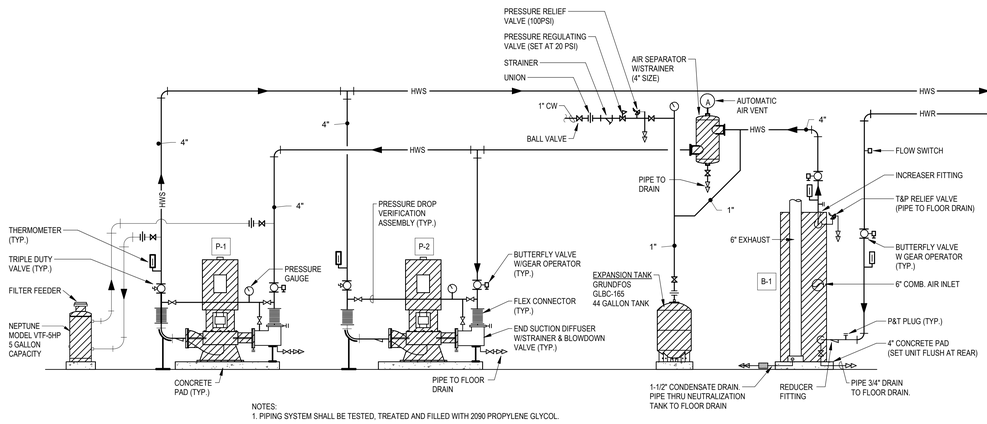
HOT WATER LOOP TEMPERATURE EXCEEDS HIGH WATER TEMPERATURE SETPOINT.

BOILER RETURN TEMPERATURE IS LESS THAN 120 DEGREES F FOR GREATER THAN 5 MINUTES OR MORE THAN 10 TIMES IN A 24 HOUR PERIOD WHILE ENABLED.

DP SENSORS VALUES ARE GREATER OR LESS THAN SETPOINT FOR MORE THAN 60 MINUTES (ADJ.).

TRENDS (MINMUM)
*ALL RUNTIMES SHALL BE TRENDING IN 24-HOUR INTERVALS

CHANGE OF VALUE	NUMERIC VALUES (15 MINUTE INTERVALS)
HOT WATER PUMP 1 ENABLE	BUILDING DP SETPOINTS
HOT WATER PUMP 1 STATUS	BUILDING DP VALUES
HOT WATER PUMP 2 ENABLE	BOILER 1 SUPPY TEMPERATURE
HOT WATER PUMP 2 STATUS	BOILER 1 RETURN TEMPERATURE
HOT WATER PRIMARY PUMP 1 ENABLE	BOILER 2 SUPPLY TEMPERATURE
HOT WATER PRIMARY PUMP 1 STATUS	BOILER 2 RETURN TEMPERATURE
HOT WATER PRIMARY PUMP 2 ENABLE	OUTSIDE AIR TEMPERATURE
HOT WATER PRIMARY PUMP 2 STATUS	VFD 1 SPEED
	VFD 2 SPEED
	VFD 1 FEEDBACK
	VFD 2 FEEDBACK



NOTES:
1. PIPING SYSTEM SHALL BE TESTED, TREATED AND FILLED WITH 2090 PROPYLENE GLYCOL.

1 M11.3 HOT WATER FLOW DIAGRAM (AREA A)
NOT TO SCALE

EXHAUST FANS SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	CFM	E.S.P. (IN W.G.)	VOLTAGE / PHASE	FAN HP (HP OR WATTS)	SONES	WEIGHT (LBS)	CONTROL POINT	NOTES
LOWER LEVEL											
EF1-10	GREENHECK	SP-B150	CEILING	125	0.3	120/1	128	1.1	13	LIGHTS	1, 2, 3
EF1-11	GREENHECK	SP-B150	CEILING	125	0.3	120/1	128	1.1	13	LIGHTS	1, 2, 3
EF1-12	GREENHECK	SP-B110	CEILING	75	0.3	120/1	80.0	0.6	13	LIGHTS	1, 2, 3
EF1-13	GREENHECK	SP-B110	CEILING	75	0.3	120/1	80.0	0.6	13	LIGHTS	1, 2, 3

ACCESSORIES & NOTES:
1. PROVIDE HANGING RODS AND VIBRATION ISOLATORS AS REQUIRED.
2. PROVIDE FACTORY MOUNTED SOLID STATE SPEED CONTROLLER AT FAN, INTERNAL DISCONNECT AND BACKDRAFT DAMPER.
3. PROVIDE W/ WHITE ALUMINUM CEILING GRILLE.

HOT WATER BOILER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	FUEL	INPUT MBH	OUTPUT MBH	EWT	LWT	GPM	P.D. (FT)	REMARKS
B-1	AERCO	BMK1000	HIGH EFFICIENCY CONDENSING	NATURAL GAS	1000	960	142	160	105	3.0	EDGE' CONTROL PANEL

ACCESSORIES & NOTES:
1. 439 STAINLESS STEEL HEAT EX W/DUAL INLET
2. FAULT MODE DIAGNOSTIC PANEL W/DIGITAL READOUT
3. NORMALLY OPEN FAULT RELAY
4. ADJUSTABLE AUTOMATIC RESET HIGH LIMIT
5. MANUAL RESET HIGH LIMIT W/MAX 210D F SETPOINT
6. 20:1 MODULATING AIR / FUEL VALVE
7. ELECTRIC PROBE LOW WATER CUT-OFF
8. COMBINATION TEMP AND PRESSURE GAUGE
9. INSULATED HEAT EXCHANGER
10. PRESSURE RELIEF VALVE, CONDENSATE TRAP, 2" EXTERNAL MANUAL GAS COCK
11. ELECTRICAL - 120V, 15A MOCP

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SIZE	FINISH	ACCESSORIES	NOTES
L-1	GREENHECK	ESD-635	EXHAUST LOUVER	120"W X 72"H	NOTE 1	NOTE 2	37.7 SQ FT. FREE AREA
REV-1	GREENHECK	GRSR-15	ROOF GRAVITY VENTILATOR	14"Ø NECK	MEDIUM BRONZE	NOTE 3 & 4	

1. LOUVER SHALL HAVE (2) COAT 70% KYNAR FINISH (COLOR BY ARCHITECT)
2. BIRD SCREEN
3. ROOF CURB FOR METAL ROOF (MATCH ROOF SLOPE AND RIB SPACING).
4. INSECT SCREEN.

PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	LOCAT.	TYPE	GPM	HEAD	EFF.	MOTOR DATA BHP	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA VOLT/PH	REMARKS
P-1, 2	GRUNDFOS	25709 VLS	BOILER B-1 HEATING WATER	EXISTING UTILITY 2129	VERTICAL INLINE	105	35 FT.	67%	1.73	3	1,800	460/3	

ACCESSORIES & NOTES:
1. PROVIDE W/ MANUFACTURER'S PUMP STAND
2. PROVIDE OSHA COUPLING GUARDS ON ALL PUMPS

VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE

VFD TAG	SERVICING	MOTOR DATA QTY	MOTOR DATA VOLTAGE	MOTOR DATA HP (EA)	ENCLOSURE RATING	HARMONIC MITIGATION	DISCONNECT	BYPASS	VFD ISOLATION SWITCH	VFD MIN. SCCR	BASIS OF DESIGN	NOTES
VFD-RF-1, 2	RF-1-2	1	460 V	10	UL TYPE 1	5% IMPEDANCE	CIRCUIT BREAKER	NONE	NO	100 KA	ABB ACH580-PCR-014A-4	1, 2, 3, 4, 5, 6
VFD-RF-3-6	RF-3, 4, 5, 6	1	460 V	2	UL TYPE 1	5% IMPEDANCE	CIRCUIT BREAKER	NONE	NO	100 KA	ABB ACH580-PCR-03A5-4	1, 2, 3, 4, 5, 6
VFD-AH-1	SF-1 THRU 4	4	460 V	40	UL TYPE 1	5% IMPEDANCE	CIRCUIT BREAKER	NONE	NO	100 KA	ABB ACH580-PCR-052A-4	1, 2, 3, 4, 5, 6
VFD-AH-2	SF-1 THRU 4	4	460 V	40	UL TYPE 1	5% IMPEDANCE	CIRCUIT BREAKER	NONE	NO	100 KA	ABB ACH580-PCR-052A-4	1, 2, 3, 4, 5, 6
VFD-AH-3	SF-1 THRU 4	4	460 V	40	UL TYPE 1	5% IMPEDANCE	CIRCUIT BREAKER	NONE	NO	100 KA	ABB ACH580-PCR-052A-4	1, 2, 3, 4, 5, 6

NOTES:
1. AT MINIMUM, VFD SHALL INCLUDE 5% IMPEDENCE VIA 5% AC LINE REACTOR OR DUAL DC BUS CHOKES SIZED TO 5% EQUIVALENT IMPEDENCE.
2. PROVIDE UL1449 SURGE SUPPRESSION DEVICE.
3. VFD SHALL INCLUDE ALPHA-NUMERIC KEYPAD INTERFACE, WITH DISPLAY IN PLAIN ENGLISH. (DISPLAYS RELYING SOLELY ON CODES ARE NOT ACCEPTABLE).
4. PROVIDE INTERNAL EMI/RFI FILTER PER IEC 61800-3. VFD INPUT AMPS SHALL NOT EXCEED VFD OUTPUT AMPS..
5. VFD SHALL BE BTL LISTED FOR BACNET MS/TP, AND ALSO INCLUDE MODBUS AND N2.
6. VFD SHALL INCLUDE REAL TIME CLOCK WITH BATTERY BACKUP (INCLUDE 10 YEAR BATTERY).

RELIEF FAN SCHEDULE

MARK	MFR/MDL	AREA SERVED	LOCAT.	TYPE	FAN DATA (CFM)	FAN DATA S.P.	FAN DATA RPM	FAN DATA DRIVE	FAN DATA TYPE	FAN DATA DIA.	FAN DATA SONES	MOTOR DATA RPM	MOTOR DATA BHP	MOTOR DATA HP	MOTOR DATA VOLT/PH	REMARKS (NOTES)
RF-1	GREENHECK SQ-27-VG	1ST FLOOR PRESS. RELIEF	UTILITY 2129	IN-LINE	16,500	0.6"	1100	OK	CENTR.	---	27	1100	5	10	460/3	NOTE 1
RF-2	GREENHECK SQ-27-VG	2ND FLOOR PRESS. RELIEF	UTILITY 2129	IN-LINE	16,500	0.6"	1100	OK	CENTR.	---	27	1100	5	10	460/3	NOTE 1
RF-3 THRU RF-6	GREENHECK G-160-VG	3RD FLOOR PRESS. RELIEF	ROOF	DOWNBLAST	3,500	0.3"	1481	DIRECT	CENTR.	---	20	1481	1.3	2	460/3	NOTE 2

ACCESSORIES & NOTES:
1. PROVIDE HANGING RODS AND VIBRATION ISOLATORS AS REQUIRED.
2. PROVIDE ADAPTOR ROOF CURB.
3. VARIABLE FREQUENCY DRIVE (VFD) - SECTION 23 09 23 - DIRECT DIGITAL CONTROL SYSTEM.

AIR HANDLING UNIT SCHEDULE

DESIG.	MFR/MDL	AREA SERVED	LOCAT.	TYPE	MIN. OSA (CFM)	FAN DATA (CFM)	FAN DATA ESP/TSP	FAN DATA TYPE	FAN DATA QTY/DIA.	CHILLED WATER COIL EAT (DEG. F.)	CHILLED WATER COIL LAT (DEG. F.)	CHILLED WATER COIL TOTAL (MBH)	CHILLED WATER COIL SENSIBLE (MBH)	CHILLED WATER COIL EWT (F.)	CHILLED WATER COIL LWT (F.)	CHILLED WATER COIL GPM	CHILLED WATER COIL W.P.D	CHILLED WATER COIL ROWS / FIN	CHILLED WATER COIL FACE VELOCITY	CHILLED WATER COIL APD (H20)	PRE-HEAT COIL EAT/LAT	PRE-HEAT COIL EWT/LWT	PRE-HEAT COIL GPM	PRE-HEAT COIL W.P.D (H20)	PRE-HEAT COIL MBH	PRE-HEAT COIL ROWS / FIN	PRE-HEAT COIL FACE VELOCITY	PRE-HEAT COIL APD (H20)	ELECTRICAL BHP	ELECTRICAL HP	ELECTRICAL FLA	ELECTRICAL VOLTAGE/ PH	REMARKS NOTES
AH-1	NORTEK	1ST FLOOR	UTILITY 2129	HORIZ.	2400	24,000	4.5" / 6.0"	CENTR.	4/22" DIA.	77.4 db 62.7 wb	52.1 db 51.7 wb	733	652.8	44	54	150	8.59	8/8 FPI	500 FPM	.75"	30F / 60F	160F / 110F	35	7.7 FT.	831	1/11 FPI	492 FPM	.13"	34	(4) 8.5	42.8	460/3	1, 2, 3, 4
AH-2	NORTEK	2ND FLOOR	UTILITY 2129	HORIZ.	2400	24,000	4.5" / 6.0"	CENTR.	4/22" DIA.	77.4 db 62.7 wb	52.1 db 51.7 wb	733	652.8	44	54	150	8.59	8/8 FPI	500 FPM	.75"	30F / 60F	160F / 110F	35	7.7 FT.	831	1/11 FPI	492 FPM	.13"	34	(4) 8.5	42.8	460/3	1, 2, 3, 4
AH-3	NORTEK	3RD FLOOR	UTILITY 2129	HORIZ.	2400	20,000	4.5" / 6.0"	CENTR.	4/22" DIA.	77.4 db 62.7 wb	49.9 db 49.8 wb	707.6	589.7	44	53.7	150	14.9	8/8 FPI	417 FPM	.60"	30F / 60F	160F / 120F	35	4 FT.	689	1/11 FPI	410 FPM	.10"	34	(4) 7	35.2	460/3	1, 2, 3, 4

ACCESSORIES & NOTES:
1. PROVIDE 2" PLEATED FILTERS.
2. PROVIDE PIPING AND WIRING CONNECTIONS AND ACCESS PANELS/DOORS ON SIDE OF UNIT THAT WILL ALLOW GREATEST ACCESSIBILITY. SEE PLANS FOR UNIT ORIENTATIONS.
3. PROVIDE INVERTOR DUTY MOTOR, VARIABLE FREQUENCY DRIVE TO BE PROVIDED BY CONTROLS CONTRACTOR (SECTION 23 09 23)
4. 20% PROPYLENE GLYCOL.

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HVAC SCHEDULES & CONTROLS

LITTLE ROCK WEST HIGH SCHOOL
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION
LEWIS ARCHITECTS ENGINEERS
No. 186
ARKANSAS ENGINEER
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.7612
RANDALL M. RAGSDALE

DATE: 2026-04-07
PROJECT NO: 22033
DRAWN BY: RAB
REV:

M11.3

MAIN LEVEL (AHU-1) EXISTING HEATING AND COOLING BOXES			
MARK	TYPE	COOLING CFM	HEATING CFM
D	SERIES FAN POWERED	2000	2000
E	PARALLEL FAN POWERED	400	280
F	PARALLEL FAN POWERED	600	420
H	PARALLEL FAN POWERED	1400	980
J	VAV TERMINAL W/ REHEAT	200	100
K	VAV TERMINAL W/ REHEAT	400	200
L	VAV TERMINAL W/ REHEAT	600	300
M	VAV TERMINAL W/ REHEAT	800	400
N	VAV TERMINAL W/ REHEAT	1250	625
Q	VAV TERMINAL W/ REHEAT	2500	1250
R	VAV TERMINAL W/O REHEAT	300	---
141	VAV TERMINAL W/ REHEAT	750	325
142	VAV TERMINAL W/ REHEAT	1800	540
DET-1	VAV TERMINAL W/ REHEAT	700	420
DET-2	VAV TERMINAL W/ REHEAT	2500	1000
DET-3	VAV TERMINAL W/ REHEAT	2000	1200
DET-4	VAV TERMINAL W/ REHEAT	225	135
DET-5	VAV TERMINAL W/ REHEAT	600	360
DET-6	VAV TERMINAL W/ REHEAT	1200	720
DET-7	VAV TERMINAL W/ REHEAT	1000	600
DET-8	VAV TERMINAL W/ REHEAT	800	360
DET-9	VAV TERMINAL W/ REHEAT	700	420
1ST FLOOR BOXES TOTAL AIRFLOW		38,925	

AREA A - MAIN LEVEL - HVAC

KEY PLAN

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FLOOR PLAN - AREA A - MAIN LEVEL - HVAC

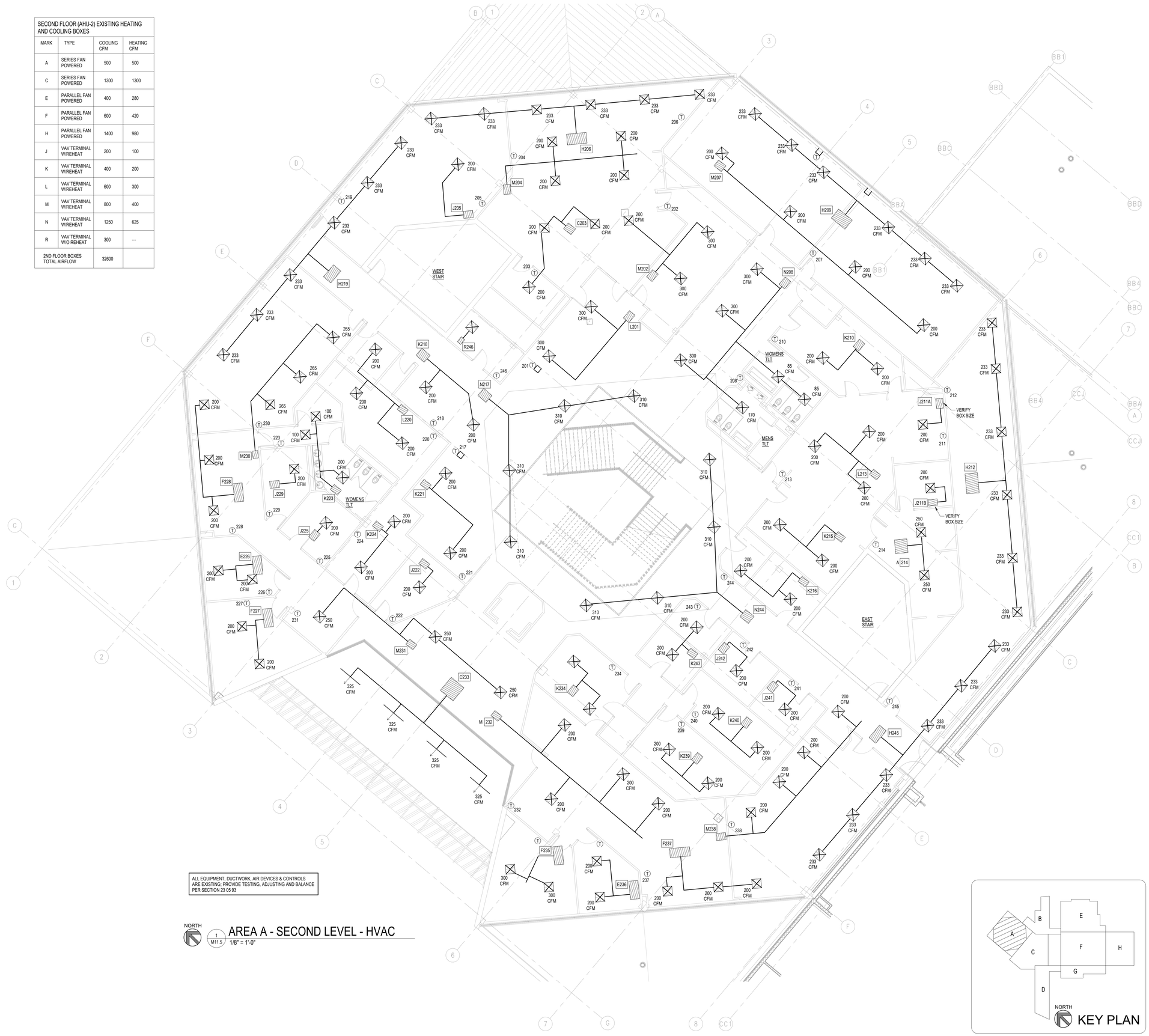
LITTLE ROCK WEST HIGH SCHOOL
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION
LEWIS ARCHITECTS ENGINEERS
No. 186
ARKANSAS ENGINEER
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.7612
RANDALL M. RAGSDALE

DATE:	2026 04-07
PROJECT NO:	22033
DRAWN BY:	RAB
REV:	

M11.4

SECOND FLOOR (AHU-2) EXISTING HEATING AND COOLING BOXES			
MARK	TYPE	COOLING CFM	HEATING CFM
A	SERIES FAN POWERED	500	500
C	SERIES FAN POWERED	1300	1300
E	PARALLEL FAN POWERED	400	280
F	PARALLEL FAN POWERED	600	420
H	PARALLEL FAN POWERED	1400	980
J	VAV TERMINAL W/REHEAT	200	100
K	VAV TERMINAL W/REHEAT	400	200
L	VAV TERMINAL W/REHEAT	600	300
M	VAV TERMINAL W/REHEAT	800	400
N	VAV TERMINAL W/REHEAT	1250	625
R	VAV TERMINAL W/O REHEAT	300	---
2ND FLOOR BOXES TOTAL AIRFLOW		32600	



NORTH

1 / M11.5 AREA A - SECOND LEVEL - HVAC

1/8" = 1'-0"

KEY PLAN

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FLOOR PLAN - AREA A - SECOND LEVEL - HVAC

LITTLE ROCK WEST HIGH SCHOOL

LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

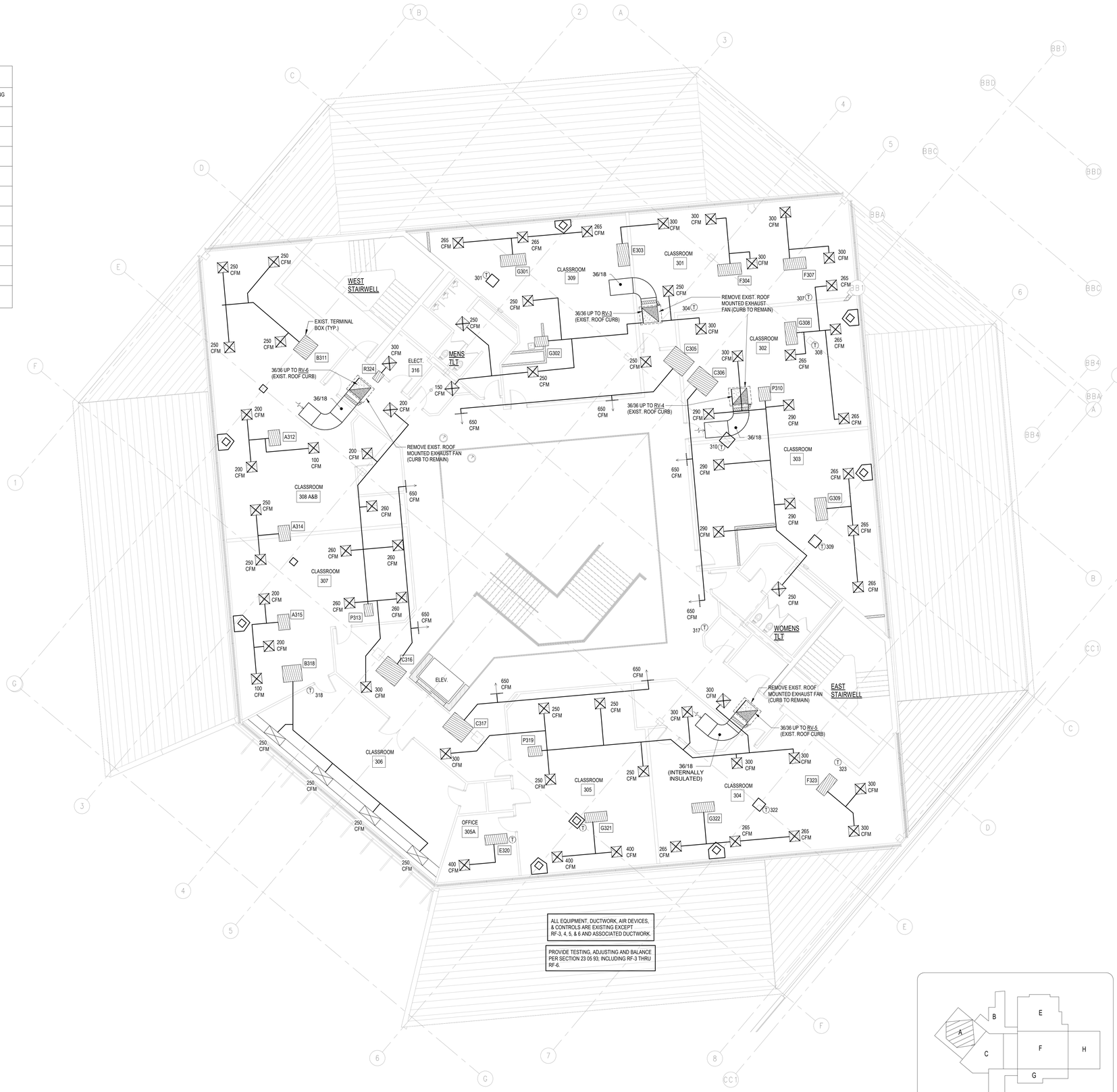
CERTIFICATE OF AUTHORIZATION
LEWIS ARCHITECTS ENGINEERS
No. 186
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.7812
RANDALL M. RAGSDALE

DATE: 2026-04-07
PROJECT NO: 22033
DRAWN BY: RAB
REV:

M11.5

THIRD FLOOR (AHU-3) EXISTING HEATING AND COOLING BOXES			
MARK	TYPE	COOLING CFM	HEATING CFM
A	SERIES FAN POWERED	500	500
B	SERIES FAN POWERED	1000	1000
C	SERIES FAN POWERED	1300	1300
D	SERIES FAN POWERED	2000	2000
E	PARALLEL FAN POWERED	400	280
F	PARALLEL FAN POWERED	600	420
G	PARALLEL FAN POWERED	800	560
P	VAV TERMINAL W/REHEAT	2000	---
R	VAV TERMINAL NO REHEAT	300	---
3RD FLOOR BOXES TOTAL AIRFLOW		22,400	6,100



NORTH 1 M11.6 AREA A - THIRD FLOOR - HVAC
1/8" = 1'-0"

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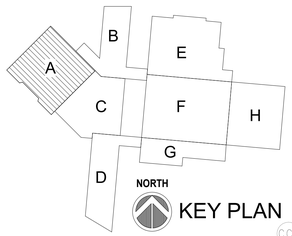
FLOOR PLAN - AREA A - THIRD FLOOR - HVAC

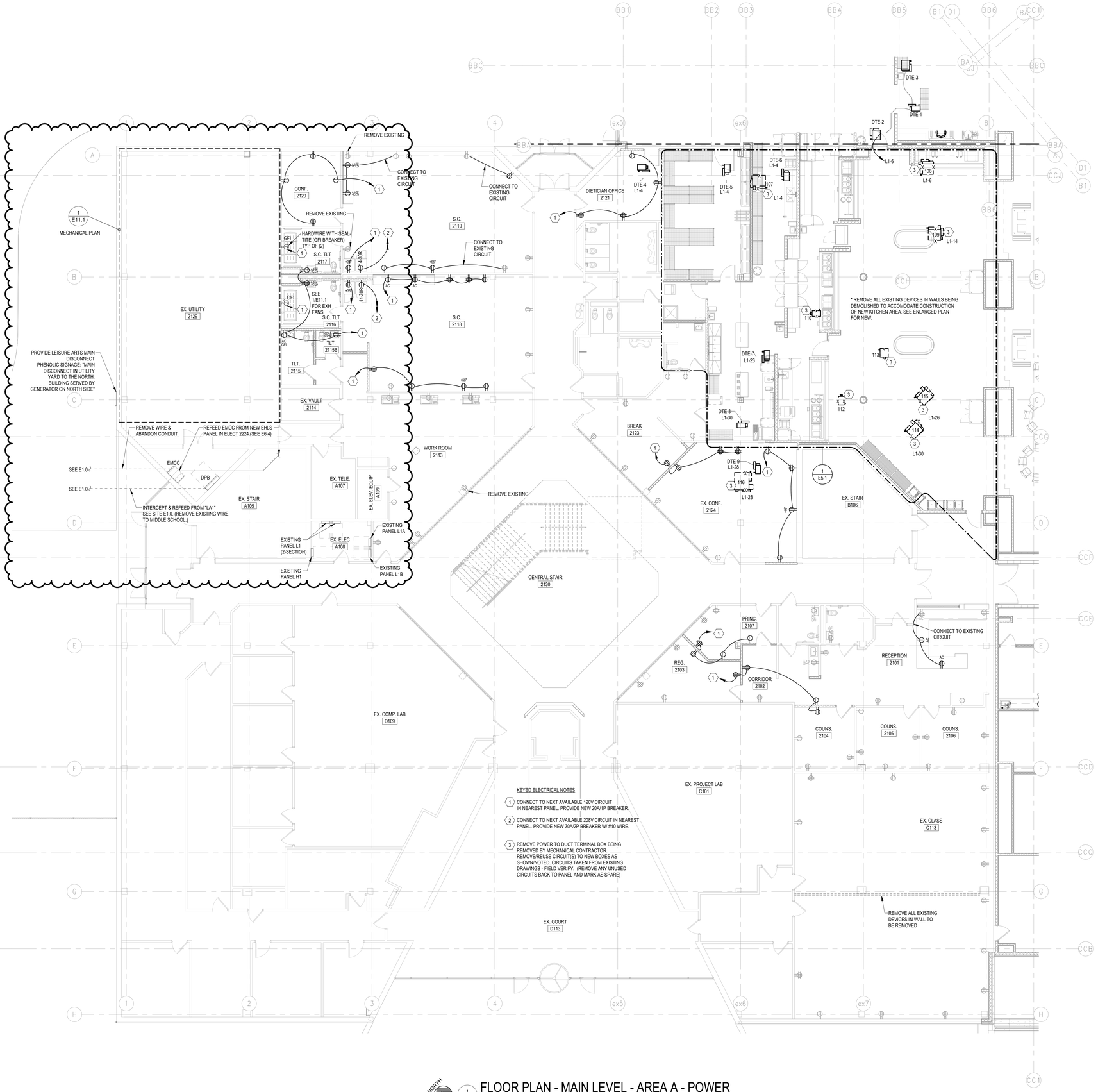
LITTLE ROCK WEST HIGH SCHOOL
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION LEWIS ARCHITECTS ENGINEERS No. 186 ARKANSAS ENGINEER
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER RANDALL M. RAGSDALE No.7612

DATE: 2026-04-07
PROJECT NO: 22033
DRAWN BY: RAB
REV:

M11.6





NORTH 1 E2.5 FLOOR PLAN - MAIN LEVEL - AREA A - POWER
1/8" = 1'-0"

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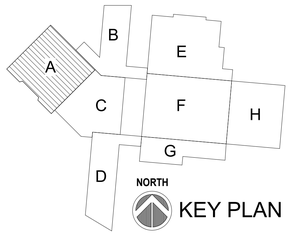
FLOOR PLAN - MAIN LEVEL - AREA A - POWER

LITTLE ROCK WEST HIGH SCHOOL
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION
LEWIS ARCHITECTS ENGINEERS
No. 186
ARKANSAS ENGINEER NO.LLN
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 11659
SCOTT L. WOODARD

DATE: 09-29-2023
PROJECT NO: 22033
DRAWN BY: SW/NJ
REVISION: 2026 04-07

E2.5



KEY PLAN

PANELBOARD: AHP1

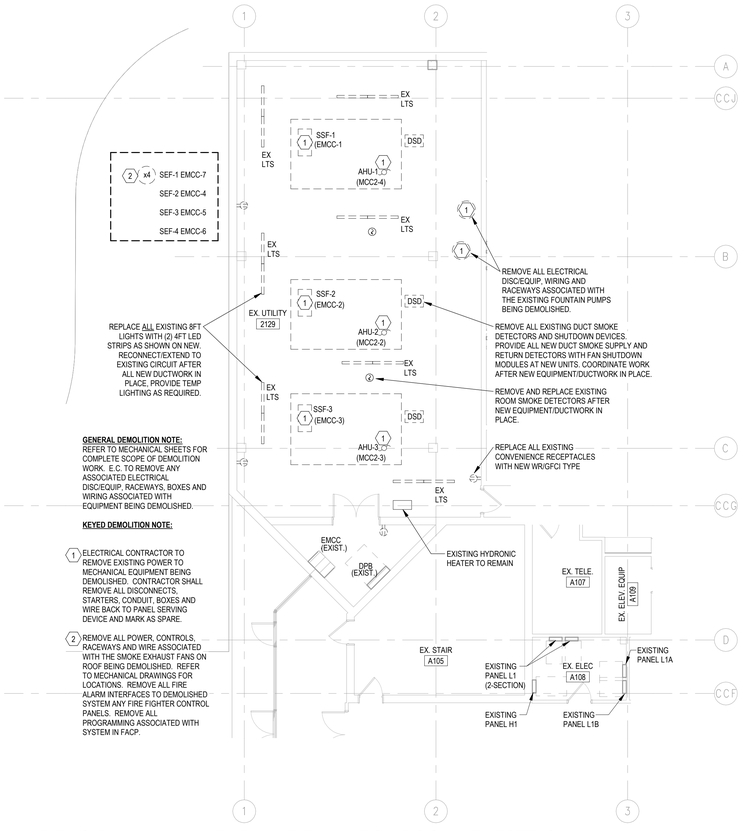
LOCATION: EX. UTILITY 2129
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 250.0 A MLO
BUS AMPS: 250 AMPS
VOLTAGE: 480Y/277 V. 3 ø 4 W.
A.I.C. RATING: 30,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		CKT	B		CKT	C		CKT	P	BKR	LOAD DESCRIPTION
			1	13.0	3.9							2			
AH-1	60 A	3	3				13.0	3.9				4	3	30 A	RF-1
			5							13.0	3.9	6			
			7	13.0	3.9							8			
AH-2	60 A	3	9				13.0	3.9				10	3	30 A	RF-2
			11							13.0	3.9	12			
			13	10.7	1.0							14			
AH-3	50 A	3	15				10.7	1.0				16	3	20 A	RF-3
			17							10.7	1.0	18			
			19	1.4	1.0							20			
P-1	20 A	3	21				1.4	1.0				22	3	20 A	RF-4
			23							1.4	1.0	24			
			25	1.4	1.0							26			
P-2	20 A	3	27				1.4	1.0				28	3	20 A	RF-5
			29							1.4	1.0	30			
SPACE	--	1	31	--	1.0							32			
SPACE	--	1	33				--	1.0				34	3	20 A	RF-6
SPACE	--	1	35							--	1.0	36			
SPACE	--	1	37	--	--							38	1	--	SPACE
SPACE	--	1	39				--	--				40	1	--	SPACE
SPACE	--	1	41							--	--	42	1	--	SPACE
	TOTAL LOAD:			51 kVA			51 kVA			51 kVA					
	TOTAL AMPS:			185 A			184.8 A			185 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED
MTR	0 VA	0.00%	0 VA
SPEC	153540 VA	100.00%	153540 VA

PANEL TOTALS	
CONNECTED LOAD:	153540 VA
ESTIMATED DEMAND:	153540 VA
CONNECTED CURRENT:	184.7 A
EST. DEMAND CURRENT:	184.7 A

NOTES:
SQUARE D NF



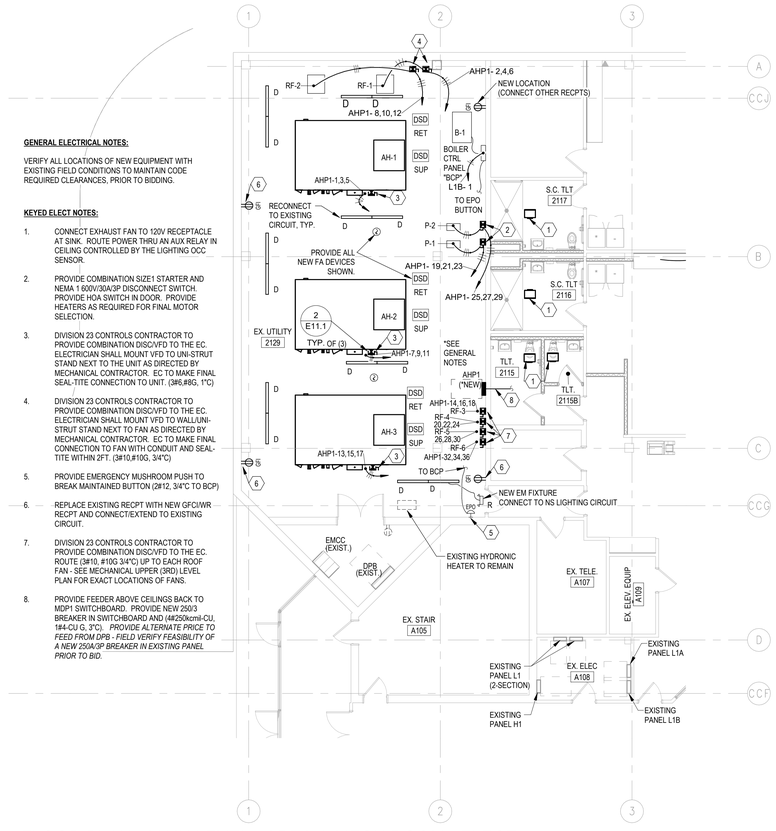
GENERAL DEMOLITION NOTE:
REFER TO MECHANICAL SHEETS FOR COMPLETE SCOPE OF DEMOLITION WORK. E.C. TO REMOVE ANY ASSOCIATED ELECTRICAL DISC/EQUIP, RACEWAYS, BOXES AND WIRING ASSOCIATED WITH EQUIPMENT BEING DEMOLISHED.

KEYED DEMOLITION NOTE:

1. ELECTRICAL CONTRACTOR TO REMOVE EXISTING POWER TO MECHANICAL EQUIPMENT BEING DEMOLISHED. CONTRACTOR SHALL REMOVE ALL DISCONNECTS, STARTERS, CONDUIT, BOXES AND WIRE BACK TO PANEL SERVING DEVICE AND MARK AS SPARE.
2. REMOVE ALL POWER, CONTROLS, RACEWAYS AND WIRE ASSOCIATED WITH THE SMOKE EXHAUST FANS ON ROOF BEING DEMOLISHED. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. REMOVE ALL FIRE ALARM INTERFACES TO DEMOLISHED SYSTEM ANY FIRE FIGHTER CONTROL PANELS. REMOVE ALL PROGRAMMING ASSOCIATED WITH SYSTEM IN FACP.

NORTH 3 E11.1 DEMO PLAN - MAIN LEVEL - AREA A MECH ROOM - ELECTRICAL
1/8" = 1'-0"

2 E11.1 DISCONNECT DETAIL
NOT TO SCALE



GENERAL ELECTRICAL NOTES:

VERIFY ALL LOCATIONS OF NEW EQUIPMENT WITH EXISTING FIELD CONDITIONS TO MAINTAIN CODE REQUIRED CLEARANCES, PRIOR TO BIDDING.

KEYED ELECT NOTES:

1. CONNECT EXHAUST FAN TO 120V RECEPTACLE AT SINK. ROUTE POWER THRU AN AUX RELAY IN CEILING CONTROLLED BY THE LIGHTING OCC SENSOR.
2. PROVIDE COMBINATION SIZE1 STARTER AND NEMA 1 600V/30A/3P DISCONNECT SWITCH. PROVIDE HOA SWITCH IN DOOR. PROVIDE HEATERS AS REQUIRED FOR FINAL MOTOR SELECTION.
3. DIVISION 23 CONTROLS CONTRACTOR TO PROVIDE COMBINATION DISC/VFD TO THE EC. ELECTRICIAN SHALL MOUNT VFD TO UNI-STRUT STAND NEXT TO THE UNIT AS DIRECTED BY MECHANICAL CONTRACTOR. EC TO MAKE FINAL SEAL-TITE CONNECTION TO UNIT. (3#6,#8G, 1"C)
4. DIVISION 23 CONTROLS CONTRACTOR TO PROVIDE COMBINATION DISC/VFD TO THE EC. ELECTRICIAN SHALL MOUNT VFD TO WALL/UNI-STRUT STAND NEXT TO FAN AS DIRECTED BY MECHANICAL CONTRACTOR. EC TO MAKE FINAL CONNECTION TO FAN WITH CONDUIT AND SEAL-TITE WITHIN 2FT. (3#10,#10G, 3/4"C)
5. PROVIDE EMERGENCY MUSHROOM PUSH TO BREAK MAINTAINED BUTTON (2#12, 3/4"C TO BCP)
6. REPLACE EXISTING RECPT WITH NEW GFCI/WR RECPT AND CONNECT/EXTEND TO EXISTING CIRCUIT.
7. DIVISION 23 CONTROLS CONTRACTOR TO PROVIDE COMBINATION DISC/VFD TO THE EC. ROUTE (3#10,#10G 3/4"C) UP TO EACH ROOF FAN - SEE MECHANICAL UPPER (3RD) LEVEL PLAN FOR EXACT LOCATIONS OF FANS.
8. PROVIDE FEEDER ABOVE CEILINGS BACK TO MDP1 SWITCHBOARD. PROVIDE NEW 250/3 BREAKER IN SWITCHBOARD AND (4#250cm/-CU, 1#4-CU G, 3"C). *PROVIDE ALTERNATE PRICE TO FEED FROM DPB - FIELD VERIFY FEASIBILITY OF A NEW 250A/3P BREAKER IN EXISTING PANEL PRIOR TO BID.*

NORTH 1 E11.1 FLOOR PLAN - MAIN LEVEL - AREA A MECH ROOM - ELECT.
1/8" = 1'-0"

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FLOOR PLAN - MAIN LEVEL - AREA A MECHANICAL ROOM - ELECTRICAL

LITTLE ROCK WEST HIGH SCHOOL
LITTLE ROCK SCHOOL DISTRICT
LITTLE ROCK, ARKANSAS

CERTIFICATE OF AUTHORIZATION
LEWIS ARCHITECTS ENGINEERS
No. 186
ARKANSAS ENGINEER NOTARY

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 11659
SCOTT W. WOODWARD

DATE: 2026 04-07
PROJECT NO: 22033
DRAWN BY: SW/NJ
REVISION:

E11.1