ADDENDUM NO. 1 March 6, 2023

RE: Spencer County Public Library Annex Building

Taylorsville, KY Project No. 22078

FROM: Brandstetter Carroll Inc.

2360 Chauvin Drive

Lexington, Kentucky 40517

Phone 859-268-1933 Fax 859-268-3341

TO: Plan Holders

This addendum forms a part of the Construction Documents and modifies the original bidding documents dated 01/02/2023. Each bidder shall acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of (2) pages, plus attachments.

- 1. Pre-Bid Meeting Minutes (3 Pages)
- 2. 004113 Bid Form (4 Pages)
- 3. 101400.2.3 Panel Signs (1 Page)
- 4. E-102 Power Plans
- 5. E-501 Electrical Schedules & Single Lines
- 6. M-501 Mechanical Schedules

#### **GENERAL:**

- 1. Question regarding if card readers and access controls are required for the project.
  - A. Card readers and access controls are not required for this project.
- 2. Question regarding if Fire Extinguisher Cabinets are to be surface mounted or recessed.
  - A. FECs are to be semi-recessed as much as allowable by the depth of the wall. Refer to detail A1/G-101.

#### **CHANGES TO SPECIFICATIONS:**

- 1. Specifications Section 004113 BID Form
  - A. Added line for alternate #3. Bidders are required to use the attached revised Bid Form.
- 2. Specifications Section 081113.2.4.C Hollow Metal Frame
  - A. Delete this entire section. No Kerfed frames will be used in the project.
- 3. Specifications Section 081113.2.4.E.3.b, c, e, and f Hollow Metal Frame
  - A. Delete these sections as they are not applicable to the door frames used.
- 4. Specifications Section 087100.2.3.A.1.a Keying System
  - A. Revise Section a to read: "Compatible with 7-pin, interchangeable core and keyed into

- a Best Patented Cormax factory registered Masterkey System."
- 5. Specifications Section 101400.2.3 Exterior Panel Signs
  - A. Replace Section 2.3 Exterior Panel Signs with attached Section 2.3 Panel Signs.
- 6. Specifications Section 101400.2.4 Interior Panel Signs
  - A. Delete Section 2.4 Interior Panel Signs in its entirety.
- 7. Specifications Section 262726 Wiring Devices
  - A. All devices and cover plates are to be white.
- 8. Specifications Section 262726.13 Floor Outlets
  - A. Delete floor boxes in their entirety in Rooms 101 and 102.

#### **CHANGES TO DRAWINGS:**

- 1. E-101 Lighting Plans
  - A. Refer to the Lighting Plan
    - i. Light fixture LSA6 is to be recessed in the eave. The design intent for this fixture is to replace the existing surface mounted fixture at this location.
- 2. E-102 Power Plans
  - A. Delete in its entirety Power Plan Note 7. PVC conduits for low voltage service entrance are not required.
  - B. Delete in its entirety Power Plan Note 9. Existing telecom service will not be utilized.
  - C. Delete floor boxes in their entirety in Rooms 101 and 102.
- 3. E-501 Electrical Schedules & Single Line
  - A. Electrical Panel P2 is to be Single Phase. Panel P2 is also to be increased to 400A, in lieu of 200A as shown.
  - B. Light fixture X1 shall be Lithonia LHQM-LED-R-HO RO (or equal).
  - C. Double headed egress fixture shall be Lithonia ELA-T-QWP-L0309 (or equal).
  - D. Refer to the Single Line Diagram
    - i. The existing 4-gang meter stack to be removed and replaced with a 400A high capacity meter base and 400A fused service disconnect. A new 400A panel to be provided. The Existing panel P1 is to be removed complete. All existing circuits that are to remain are to be wired back to new panel. Refer to revised single line diagram.
  - E. Due to the existing building being wired with Romex wiring, the existing Romex wiring can be reused.
  - F. Branch circuits can be in MC. All feeders are to be installed in conduit.

#### **END OF ADDENDUM NO. 1**

# CONFERENCE MEMORANDUM SPENCER COUNTY PUBLIC LIBRARY ANNEX BUILDING TAYLORSVILLE, KENTUCKY PROJECT NO. 22078

Present: See Attached Sign-in Sheet



February 24, 2023

The pre-bid meeting for the Spencer County Public Library Annex Building was held onsite at 10:00 am on Friday, February 24, 2023. Please see the attached sign-in sheet for attendees.

The following items were discussed:

- 1. Mr. Whitmer gave a brief description of the project.
- 2. All questions are be sent to Cameron Mitchell at <a href="mailto:cmitchell@bciaep.com">cmitchell@bciaep.com</a> by no later than Wednesday, March 3, 2023.
- 3. Sealed bids will be received on Thursday, March 9, 2023, until 2:00 p.m. local time. Bids are to be delivered to the Spencer County Public Library, 168 Taylorsville Road, Taylorsville, Kentucky 40071. Bids shall include a cashier's check or satisfactory Bid Bond in the amount of five percent (5%) of the total bid. Proposals should be clearly marked as follows:

## BID PROPOSAL SPENCER COUNTY PUBLIC LIBRARY ANNEX BUILDING

- 4. The anticipated schedule is for Library Board to award the contract on March 14, 2023. Construction would then begin on April 1, 2023.
- 5. The construction schedule is <u>180</u> calendar days; however, the owner reserves the right to extend the project schedule, at their discretion.
- 6. Within one (1) hour of the bid submission, the completed list of unit prices must be submitted by the two lowest bidders.
- 7. The successful bidder will be required to provide a Performance and Payment Bond for one hundred percent (100%) of the contract amount.
- 8. Liquidated damages are \$800 per day.
- 9. The project will require retainage.
- 10. A contingency allowance of \$25,000 is to be included in the bidder's base bid amount.
- 11. Mr. Whitmer stated safety is of the upmost concern as this is an active and operational site. The contractors are to coordinate all work with the Owner to maintain operations.

- 12. This project is non-prevailing wage.
- 13. Various contractors had several questions. The were asked to submit them in writing.
- 14. All parties walked the project site.
- 15. See Addendum #1 for additional information.

If you should disagree with any information contained herein, please kindly notify our office in writing within 10 days of receipt of this memorandum.

Jim Whitmer, NCARB, CSI, CCCA

### **ATTENDANCE SHEET**

PROJECT:

Spencer County Public Library Annex Building

PROJECT NO.:

22078



DATE: February 24, 2023

TIME: 10:00 AM

NAME	COMPANY	Email Address
Rich Pesta	ONNI	sporta Connicionerecialky.
Kevin Laterer	KES	Kevin @ KES low con
Joey P.Kp	Payme Flathic	3p. Ke @paywe electric to
Chris Hutt	Payare e ketric	Chutto say we electrica co
Travis Holtzclan	Churchill McGree	tho It zclaw @church ill mages co
Jason Sanders	Total Power Electrical	jasan @total power electric 11c. ca
SONNY FOREMAN	Allasalde	Sa Quea Son/Onoles@gmail.co
Don Witte	L.b Baard	
Jim Coones	C-3 Mech	Jim. (3 Mech @gMA
Bob Melton	A Total Solution LLC	
Jeff STEGNER	WPC CO, GC	Jeff at MACCOMPANYO COM

#### **DOCUMENT 004113 - BID FORM**

То:	Spencer County Public Library	
Project:	Spencer County Public Library Annex Bu	ilding
Project.	Spencer County Fublic Library Aimex Bu	nung
Date:		
Submitted (full name		
(full addre	ess)	
(telephone	e and fax number)	
1. OFF	ER	
Contract Dundersigne		referred to in the Instructions to Bidders and the Inc. for the above-mentioned project, we, the orm the Work for the Sum of
71.	Written Amount	Numeral \$
В.	CONTINGENCY ALLOWANCE:	
	Twenty-Five Thousand Dollars	\$25,000.00
C.	TOTAL BID:	
	Written Amount	Numeral \$
We l	have included the security Bid Bond required	by the Instructions to Bidders.
	Cash and Contingency Allowances described in Sum.	n Section 012100 - Allowances are included in the
2. ALT	TERNATES	
A.	ALTERNATE 1: REMOVE ALL WOOD Written Amount	PANELING COMPLETELY  Numeral \$

B. <u>ALTERNATE 2: REMOVE AND REPLACE (3) EXTERIOR DOORS AND FRAMES</u>

BID FORM 004113 - 1 3.

	WITH NEW HM DOORS AND F	RAMES	
	Written Amount	Numeral \$	
			_
C.	ALTERNATE 3: REMOVE AND	REPLACE (8) EXISTING EXTERIOR WINDOW	'S
٠.	AND FRAMES		
	Written Amount	Numeral \$	
<b>A</b> GG	EDTANCE		
ACC	EPTANCE		
This	offer shall be open to acceptance and	is irrevocable for sixty days from the bid closing date.	
If the	Owner accepts this bid within the time	ne period stated above, we will:	
-	Execute the Agreement within seve	n days of receipt of Notice of Award.	
_	Furnish the required bonds within	seven days of receipt of Notice of Award in the form	m
	described in Supplementary Condit	*	
	•	d, and we fail to commence the Work or we fail to provid	
		hall be forfeited as damages to the Owner by reason of ou f the face value of the security deposit or the difference	

In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

#### 4. CONTRACT TIME

If this Bid is accepted, we will:

- Complete the Work in ONE hundred EIGHTY (180) days from Notice to Proceed.

#### 5. ADDENDA

Acknowledge receipt of all addenda issued for the project in the spaces provided below. Failure To do so may disqualify the bid or bids received. Acknowledgment of the receipt of the addenda shall indicate that all related modifications to the Bid Documents have been considered and all costs are included in the Bid Sum.

Addendum # 1	Dated _	
Addendum # 2	Dated _	
Addendum # 3	Dated	

between this bid and the bid upon which a Contract is signed.

BID FORM 004113 - 2

### 5. BID SUPPLEMENTS

The following supplements are a part of the Bid form and are attached hereto.

- 1. 004322 List of Unit Prices
- 2. 004336 List of Subcontractors

BID FORM 004113 - 3

BID FORM SIGNATURE (S)

6.

. ,	
The Corporate Seal of	
(Dillow and the full account for the full)	
(Bidder - print the full name of your firm)	
was hereunto affixed in the presence of:	
(Authorized signing officer Title)	
(Seal)	
(Authorized signing officer Title)	

If the Bid is a joint venture or partnership, add additional forms of execution for each member of the joint venture in the appropriate form or forms as above.

#### **END OF BID FORM**

BID FORM 004113 - 4

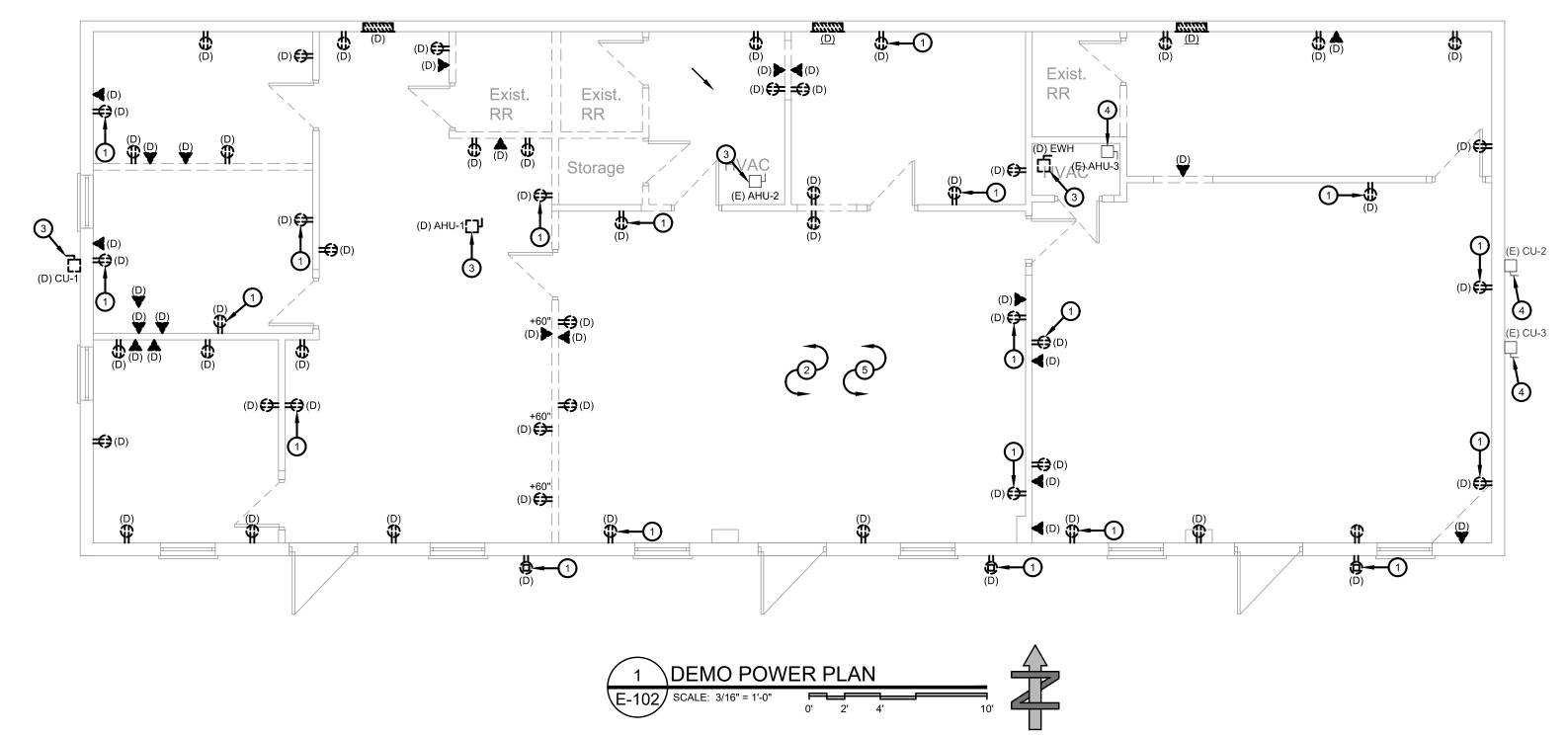
#### 2.3 PANEL SIGNS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide ASI Modulex SIGNETCH 1 or a comparable product by one of the following: See Drawings for layout.
  - 1. ACE Sign Systems, Inc.
  - 2. Advance Corporation; Braille-Tac Division.
  - 3. ASI-Modulex, Inc.
  - 4. Best Sign Systems Inc.
  - 5. Gemini Incorporated.
  - 6. Innerface Sign Systems, Inc.
  - 7. Signature Signs, Incorporated.
- B. Panel Signs: Provide panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally from corner to corner, complying with the following requirements:
  - 1. Material: Zinc. in 0.125 inch thickness.
  - 2. Paint: Primer and Urethane Based Color Coat, of type standard with manufacturer. Provide UV resistant clear urethane topcoat required for exterior applications.
  - 3. Edge Condition: Square with 0.125 inch border.
  - 4. Edge Finish: Brushed.
  - 5. Corner Condition: Square.
  - 6. Raised text and graphic finishes:
    - a. Metallic Finishes:
      - 1) Silvertone, vertical grain.
  - 7. Recessed Graphics Color Options:
    - a. As selected by Architect from manufacturer's full range.
  - 8. Recessed Area Texture Options:
    - a. Sandstone or Suede paint as selected by the Architect.
  - 9. Letter style: Arial Bold
  - 10. Mounting:
    - a. Interior: System VT, vinyl tape.
    - b. Exterior: System ST, stud mount.
    - c. Provide back plate for glass mounted signs to conceal mounting anchor.
  - 11. Tactile Characters: Characters and Grade 2 Braille raised 1/32 inch above surface with contrasting colors.
- C. Tactile and Braille Sign: Manufacturer's standard process for producing text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square-cut edges free from burrs and cut marks; Braille dots with domed or rounded shape.
  - 1. Raised-Copy Thickness: Not less than 1/32 inch.

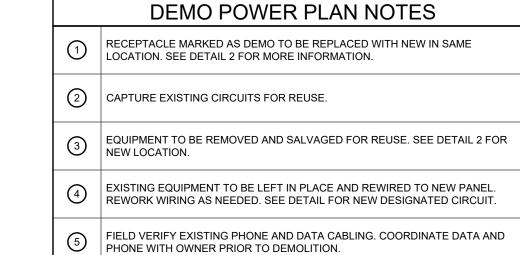
POWE	R PLAN S	YMBOL	LEGEND					
Ф+0"		DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED						
<b>\rightarrow</b> +0"	SPECIAL USE DEDICATED RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED REFER TO PANEL SCHEDULE FOR MORE INFORMATION							
<b>\Q</b> +0"	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED							
<b>(</b> +0"	WEATHER PROOF MOUNT AT +18" A		E OTHERWISE NOTED					
<del>+</del> +0"		QUADRUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED						
<b>V</b> +0"	DATA JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED							
<u>™</u> +0"		TELEVISION JACK MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED						
J	JUNCTION BOX							
라	NON-FUSED DISCONNECT							
머	FUSED DISCONNE	ECT						
M) 1Ø MOTOR C	CONNECTION	M	3Ø MOTOR CONNECTION					
EXISTING <b>NEW</b>	FLUSH MOUNTED A = PANEL DESIG							
EXISTING NEW	SURFACE MOUNT A = PANEL DESIG							
	METER							
— <b>  \ →</b> A-B	HOME RUN A = PANEL DESIG B = CIRCUIT NUM							
N = NEW E = E> +0" = MOUNTING HEIGHT (			D = DEMO F = FUTURE FLOOR.					

# EXISTING CONDITIONS AND RELOCATION NOTES

- THE CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVALS AND RELOCATIONS IN THE CONTRACT. THESE COSTS SHALL INCLUDE WORK DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS WITH ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED EXCEPT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW LAYOUTS AND SCHEMES. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY. ALL DEVICES THAT ARE TO REMAIN SHALL BE CONNECTED TO THE EXISTING BRANCH CIRCUITS OR NEW ONES AS REQUIRED.
- ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY DEMOLITION WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF THE ELECTRICAL SYSTEM OF THE BUILDING.
- ALL PRESENT MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER AND/OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR AS DIRECTED.
- PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT ARE REQUIRED TO CONTINUE TO FUNCTION SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS: CONDUCTOR CAPACITY, CONDUIT
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH CONSTRUCTION SCHEDULES. THE CONTRACTOR SHALL FOLLOW THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
- 7. ON DEMOLITION AND NEW WORK DRAWINGS, CORRESPONDING ANNOTATION:

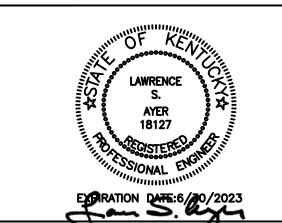


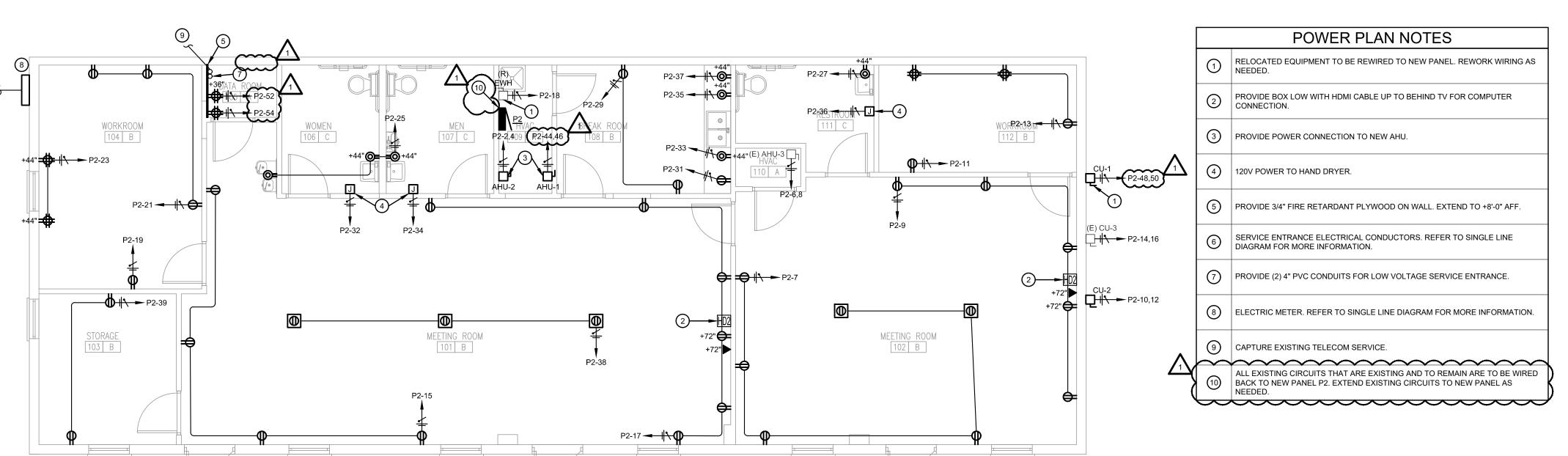
2 POWER PLAN





Lexington Cincinnati Cleveland Dallas Charleston





Revisions: Addendum #1 March 06, 2023 Issue Date: January 20, 2023

Spencer County
Public Library Accessory
Building
116 Taylorsville Rd
Taylorsville, KY 40071

Power Plans

Project No.

E-102

22078

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### PROJECT GENERAL NOTES

- THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
- 2. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.
- EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.
- THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALI PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
- 5. IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH
- ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE KENTUCKY BUILDING CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.

### PANEL SCHEDULE NOTES

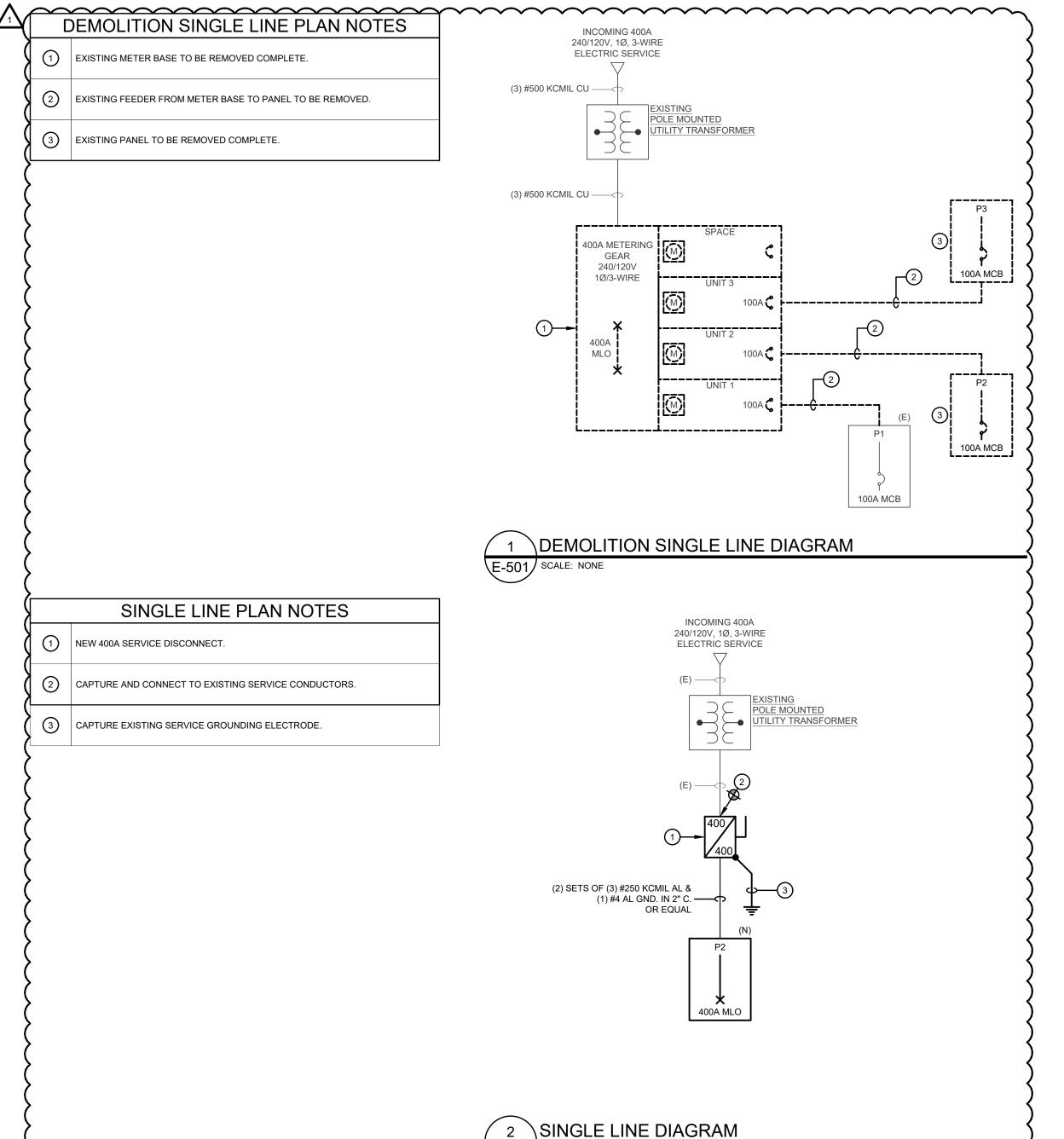
NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELS SHALL MATCH PANEL MANUFACTURER, VOLTAGE LEVEL AND FAULT CURRENT RATING OF EXISTING PROTECTIVES.

BETWEEN PHASES SHALL BE +/- 10%.

- IDENTIFY MAIN DISCONNECTS AND ALL UP AND DOWNSTREAM DISCONNECTING MEANS FOR ALL CIRCUITS AT PANEL.

  FILL OUT BRANCH CIRCUIT DIRECTORY INDICATING CIRCUIT NUMBERS, AREA(S) SERVED, AND LOAD TYPE. INDEX SHALL BE NEATLY TYPED. BRANCH CIRCUIT
- SERVED, AND LOAD TYPE. INDEX SHALL BE NEATLY TYPED. BRANCH CIRCUIT DIRECTORIES SHALL BE UPDATED OR REPLACED IN ALL AREAS OF ALTERATIONS. BLACK LAMINATED PHENOLIC NAMEPLATES SHALL BE PROVIDED ON ALL NEW AND EXISTING PANEL BOARDS SECURED BY #8-32 SCREWS, LOCK WASHERS AND NUTS ON EACH CORNER OF NAMEPLATE.

  CONTRACTOR MAY ARRANGE CIRCUITS TO SUIT FIELD CONDITIONS, BUT LOADING



### ELECTRICAL GENERAL NOTES

- THE TERM "PROVIDE" SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE WORKING SYSTEM.
- 2. RECEPTACLES SHALL BE CIRCUITED WITH A SEPARATE GROUND WIRE.
  RECEPTACLES PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER DEVICES
  SHALL EACH HAVE A SEPARATE NEUTRAL WIRE PULLED FOR THAT CIRCUIT.
- 3. ALL CONDUIT SHALL BE RUN CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER FLOOR SLAB (ONLY WHERE SHOWN DASHED ON PLAN), UNLESS OTHERWISE NOTED ON PLAN. IN HIGH-BAY (NO CEILING) AREAS, RUN EXPOSED CONDUIT HIGH AS POSSIBLE. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL. NO NONMETALLIC CONDUIT SHALL BE RUN IN AIR RETURN PLENUM.
- 4. FROM EACH TELEPHONE, CRT, TV, ETC.. COMMUNICATION TYPE OUTLET, PROVIDE A (MIN..) 3/4-INCH CONDUIT (WITH PULL STRING) STUBBED ABOVE LAY-IN CEILING, UNLESS OTHERWISE NOTED.
- 5. TELEPHONE AND OTHER COMMUNICATIONS WIRING SHALL BE PLENUM RATED IF CONDUCTORS PASS THROUGH AN AIR RETURN PLENUM.
- 6. ELECTRICAL DRAWINGS SHALL BE COORDINATED WITH ASSOCIATED MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR FOR MOTORS, DEVICES, FIXTURES, ETC.. FOR EXACT LOCATIONS BEFORE ROUGH-IN OF CONDUIT SYSTEM.
- 7. MINIMUM CONDUIT SIZE IS 3/4 INCH, MINIMUM WIRE SIZE IS #12 AWG, UNLESS OTHERWISE NOTED ON PLANS OR IN CIRCUIT REVIEWS.
- 8. MOUNTING HEIGHTS ABOVE FINISHED FLOOR (A.F.F.) ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
- 9. ALL WIRING SHALL BE INSTALLED PER THE NATIONAL ELECTRIC CODE (NEC). ALL WIRING SHALL BE SECURED AND SUPPORTED PER NEC 300.11.
- 10. CONTRACTOR SHALL INCLUDE THE COST TO SECURE ALL APPLICABLE PERMITS IN
- 11. ALL RECEPTACLES IN THE KITCHEN/PREP AREA SHALL BE GFCI WHETHER SHOWN
- 12. ALL EXIT AND EMERGENCY LIGHTING SHALL BE WIRED EITHER AHEAD OF LOCAL SWITCHING ON THE LOCAL AREA CIRCUIT OR ON A DEDICATED EXIT/EMERGENCY CIRCUIT. THE METHOD CHOSEN SHALL MEET THE REQUIREMENTS OF N.E.C. ARTICLE 700 AND THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- 13. ALL 120V AND 277V CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARING A NEUTRAL CONDUCTOR IS PROHIBITED.
- 14. ALL RECEPTACLES BEHIND VENDING MACHINES AND REFRIGERATORS TO BE GFCI WITH REMOTE AND OR ACCESSIBLE RESET

### GENERAL NOTES - RISER DIAGRAM

- A. PARALLEL FEEDER CONDUCTORS SHALL BE CUT TO THE EXACT SAME LENGTHS AND SHALL BE FROM THE SAME FACTORY RUN. ALL CONNECTIONS FOR SAME WORK SHALL BE TORQUED TO IDENTICAL VALUES.
- B. EXTERIOR ELECTRICAL WORK SHALL NOT ONLY BE WEATHERPROOF AND WATER TIGHT, BUT SHALL BE RUST RESISTANT.
- HOITI, BUT SHALL BE RUST RESISTANT.
- C. CONDUCTORS BELOW GRADE OR SUBJECT TO MOISTURE SHALL BE 'XHHW-2'.

  D. PROVIDE FACTORY SERIES COORDINATION FOR ALL CIRCUIT BREAKERS.
  (INCLUDING ALL BRANCH BREAKERS). RELATIVE TO "UPSTREAM" BREAKERS, SO

THAT ONLY THE BREAKER CLOSEST IN THE CIRCUIT TO THE LOAD TRIPS UPON AN

- OVERLOAD OF FAULT CONDITION.

  E. POWER DISTRIBUTION EQUIPMENT SUPPLIER SHALL PROVIDE APPROPRIATELY RATED AND BRACED TO ACCOMMODATE THE AVAILABLE FAULT CURRENT AT THE UTILITY COMPANY TRANSFORMER SECONDARIES. THIS SUPPLIER SHALL ACCORDINGLY PROVIDE ANY RELATED CALCULATIONS SO THAT THEIR EQUIPMENT IS PROPERLY COORDINATED FOR THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THIS SUPPLIER WITH COPIES OF THE
- F. GROUNDING ELECTRODE CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING ARTICLE 250 AND TABLE 250-66. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE LINE DIAGRAMS, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.

EQUIPMENT IS PROVIDED UNDER BASE BID.

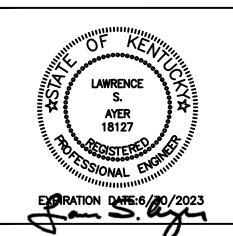
ELECTRICAL DOCUMENTS AS REQUIRED SO THAT PROPERLY RATED/BRACED

- G. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED IN STRICT COMPLIANCE WITH NEC, INCLUDING ARTICLE 250 AND TABLE 250-122. THESE CONDUCTORS MAY NOT BE INDICATED ON RISERS OR SINGLE LINE DIAGRAMS, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.
- H. WORKING CLEARANCES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, STARTERS, DISCONNECTS, ETC. AS APPLICABLE) IN STRICT COMPLIANCE WITH NEC CHAPTER 1, PART B SECTION 110-25(a). LOCATIONS SHOWN ON THE FLOOR PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH THE ABOVE NEC REFERENCE. THIS REQUIREMENTS APPLIES TO EQUIPMENT ON FLOOR PLANS AS WELL AS TO EQUIPMENT SHOWN ON THE RISER.
- HOLD ALL NEW OVERHEAD ELECTRICAL WORK AS TIGHT AS POSSIBLE TO THE BOTTOM OF THE OVERHEAD STRUCTURE. LOCATE ANY RELATED PULL BOXES SO THAT THEY WILL BE FULLY ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. AS WITH ALL WORK, COORDINATE IN ADVANCE WITH OTHER TRADES.
- ROUTE FEEDER CONDUITS BELOW GRADE WHEREVER POSSIBLE. VERY LIMITED SPACE EXISTS ABOVE ACOUSTICAL TILE CEILINGS AND MANY, IF NOT MOST, OF THE SPACE ABOVE GYPSUM BOARD CEILINGS IS NOT AVAILABLE FOR RUNNING CONDUIT. STUDY ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS VERY CAREFULLY BEFORE LAYING OUT FEEDER ROUTES.
- K. ALL PANELS HAVE NEMA 1 ENCLOSURES UNLESS OTHERWISE NOTED.
- ALL PANELS ARE SURFACE MOUNTED UNLESS OTHERWISE NOTED.

S	SINGLE LINE SYMBOL LEGEND
<b>-</b> ~-	CIRCUIT BREAKER
	FUSE
0	UTILITY METER
000	NON-FUSED DISCONNECT
000	FUSIBLE DISCONNECT
* *	PANELBOARD, MAIN LUG ONLY WITH FEED THROUGH LUGS Y= RATING X= NAME
***	PANELBOARD, MAIN LUGS ONLY Y= MAIN LUGS RATING X = NAME
√ <b>¢</b>	PANELBOARD, MAIN CIRCUIT BREAKER Y = MCB RATING X = NAME
Z	MOTOR - SINGLE PHASE Z = HP RATING
<b>(Z)</b>	MOTOR - THREE PHASE Z = HP RATING
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION



Lexington Cincinnati Cleveland Dallas Charleston



Volts	Phase	Wire	,	Panel Type	Electrical Panel Schedule P2						Am pacity Provided	Mount	Fed From		
120/240	1Ø	3		Main Lug Only							400 A mps		Surface	22,000	
Circuit#	Breaker	Poles	Notes	De s cription	Α	В		Α	В		Description	Note s	Poles	Breaker	Circuit#
1	20	1		103-109 Lighting	536			5,595			AHU-2		2	60	2
3	20	1		Meeting Room 101 Lts		646			5,595						4
5	20	1		Meeting Room 102, 110-112 Lts	601			1,716			AHU-3		2	60	6
7	20	1		Meeting Room 102 Receptacles		720			1,716						8
9	20	1		Meeting Room 102 Receptacles	900			4,750			CU-2		2	25	10
11	20	1		Workroom 112 Copier		1,000			4,750						12
13	20	1		Workroom 112 Receptacles	900			2,496			CU-3		2	40	14
15	20	1		Meeting Room 101 Receptacles		720			2,496						16
17	20	1		Meeting Room 101 Receptacles	1,080			1,500			Water Heater		2	20	18
19	20	1		Workroom 104 Copier		1,000			1,500						20
21	20	1		Workroom 104 Receptacles	500			360			Existing Outdoor Sign		1	20	22
23	20	1		Workroom 104 Quads		720			1,080		Existing Circuit		1	20	24
25	20	1		Restroom Rcpts. & Water Fountain	540			720			Existing Circuit		1	20	26
27	20	1		Res troom Receptacle		180			900		Existing Circuit		1	20	28
29	20	1		Break Room Receptacles	360						Spare		1	20	30
31	20	1		Refrigerator		180			1,200		Women's Hand Dryer	LO	1	20	32
33	20	1		Break Room Counter ded. Rcpt.	180			1,200			Men's Hand Dryer	LO	1	20	34
35	20	1		Break Room counter ded. Rcpt.		180			1,200		Restroom Hand Dryer	LO	1	20	36
37	20	1		Break Room Counter ded. Rcpt.	500			360			Meeting Room 101 Floor Boxes		1	20	38
39	20	1		Storage Receptacles		360					Spare		1	20	40
41	20	1		Exterior Lights	84						Spare		1	20	42
43	20	1		Spare					5,595		AHU-1		2	60	44
45	20	1		Spare				5,595			1				46
47	20	1		Spare					2,185		CU-1		2	40	48
49	20			Spare				2,185			1				50
51	20			Spare					360		Data Room Quad		1		52
53	20			Spare				360			Data Room Quad		1		54
55															56
57															58
59															60
	Total Conne	ected Load P	hase A:	33,018	Lo	ad Descript	ion	Watts	Factor	Total	Pan	el Schedu	le Notes:		
		ected Load F		34,283			les < 10,000	10,000	100%	10,000	New circuit breakers added to existin			el manufacture	voltage leve
				,,			les > 10,000	1,300	50%	650	and fault current rating of existing pro		iaii materi parit	or manuracturer	, voltage leve
	To	tal Connecte	d Load:	67,301 Watts			ghting Loads	1,867	125%	2,334					
Notes:	- 10	tur Connecte	u Louu.	57,001 Walls			rack Lighting	0Ft	75W/Ft	0	Identify main disconnects and all up a	nd dow nst	ream disconne	cting means fo	r all circuits a
AF	Arc Fault Cir	cuit Interrupte					Motor Loads	0	100%	0	panel.				
GF		t Circuit Interru		ł			argest Motor	0	125%	0	Fill out branch circuit directory indicat				
LO	Lock Out Bre		P.01	ł			ooling Loads	8,424	100%	8,424	Index shall be neatly typed. Branch o	ircuit direct	ories shall be	updated or rep	aced in all
ST	Shunt Trip	Canci		ŀ			eating Loads	39,250	100%	39,250	areas of alterations.				
PNF	Provide new	fuce in clot		ŀ			nuous Loads	0	125%	0	Black laminated phenolic nameplates	shall be pro	vided on all ne	w and existing	panel boards
REF			hle ewitch	ŀ			nuous Loads	6.460	100%	6,460	Black laminated phenolic nameplates shall be provided on all new and existing panel boa secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.				
		ting spare fusi		id shall be ealerlated upder the								n e . 1 )	PP 1 1 1 1	P. L.	1 10 7
EX				d shall be calculated under the			oment Loads	0	100%	0	Contractor may arrange circuits to su +/1 10%.	it field cond	litions, but load	ling between p	nases shall b
				ilding peak demand) category		Existing Pa	anel Demand		125%	0	17,1 10 70.				
				neer offers no warranty as to					Sub-Total:	67,118	1				
	the condition	or load inforn	nation on un	nknown circuit breakers.					Am pacity:	279.66	1				
							Total	Connecte	d Load %:	70%					

\_\_\_\_\_

SYMBOL	ID	DESCRIPTION		FIXTURE INFORMATION	ELECTRIC IN	FORMATION	MISCELL	ANEOUS INFORMATION
	LC2	24" X 24" RECESSED	MAKE	LITHONIA	VOLTAGE	MVOLT	MOUNTING	RECESSED
<b>  </b>		LED FIXTURE	MODEL	2AVL2 30LHE MDR EZ1 LP835	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE		NOTES	
			OTHER		WATTS			
	LC2-E	24" X 24" RECESSED		LITHONIA	VOLTAGE	MVOLT		RECESSED
		LED FIXTURE WITH		2AVL2 30LHE MDR EZ1 LP835 EL14L	LAMP QTY		HEIGHT	
		EMERGENCY BATTERY PACK	ALTERNATE		LAMP TYPE		NOTES	
		TAOK	OTHER		WATTS			
<del></del> 1	LC4	24" X 48" RECESSED		LITHONIA	VOLTAGE	MVOLT		RECESSED
		LED FIXTURE	MODEL	2AVL4 40LHE MDR EZ1 LP835	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	41W		
	LC4-E	24" X 48" RECESSED	MAKE	LITHONIA	VOLTAGE	MVOLT	MOUNTING	RECESSED
		LED FIXTURE		2AVL4 40LHE MDR EZ1 LP835 EL14L	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	41W		
	LD6	6" LED DOWNLIGHT	MAKE	GOTHAM	VOLTAGE	MVOLT	MOUNTING	RECESSED
0			MODEL	EVO6 35/15 AR LSS MWD MVOLT EZ1	LAMP QTY		HEIGHT	
O			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	15W		
	LD6A	6" EXTERIOR LED DOWNLIGHT	MAKE	GOTHAM	VOLTAGE	MVOLT	MOUNTING	RECESSED
0			MODEL	EVO6RSH 27/15 DFRAMF SOL MVOLT	LAMP QTY		HEIGHT	
O			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	15		
	LS4	SURFACE MOUNT LINEAR	MAKE	LITHONIA	VOLTAGE	MVOLT	MOUNTING	SURFACE
•		LED STRIP LIGHT		ZL1N L48 5000LM FST MVOLT 35K	LAMP QTY		HEIGHT	
			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	38W		
	E1	LED EMERGENCY	MAKE	LITHONIA	VOLTAGE	120V	MOUNTING	UNIVERSAL
$\longrightarrow$		EGRESS FIXTURE	MODEL	ELM2 LED	LAMP QTY		HEIGHT	
0_0			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS			
	WP	WALL PACK	MAKE	LITHONIA	VOLTAGE	MVOLT	MOUNTING	SURFACE
			MODEL	WST LED P1 27K VW MVOLT	LAMP QTY		HEIGHT	
<u> </u>			ALTERNATE		LAMP TYPE	LED	NOTES	
			OTHER		WATTS	12W		
	X1	EXIT / EMERGENCY SIGN	MAKE	LITHONIA	VOLTAGE	UNV	MOUNTING	UNIVERSAL
$\otimes$			MODEL	EDG/EDGR W RMR EL	LAMP QTY	LED	HEIGHT	
$\diamond$			ALTERNATE		LAMP TYPE	LED	NOTES	FACES AND ARROWS
			OTHER		WATTS	4.3W		PER PLANS

EXISTING DEMO

-R RELOCATED

ARE EMERGENCY FIXTURES. SEE ELECTRICAL GENERAL NOTES FOR MORE

NOTES FOR MORE INFORMATION.

FIXTURES WITH THE SUFFIX "-NL" ARE NIGHT LIGHTS. SEE ELECTRICAL GENERAL

Revisions: Addendum #1 March 06, 2023
Issue Date: January 20, 2023

Spencer County
Public Library Accessory
Building
116 Taylorsville Rd
Taylorsville, KY 40071

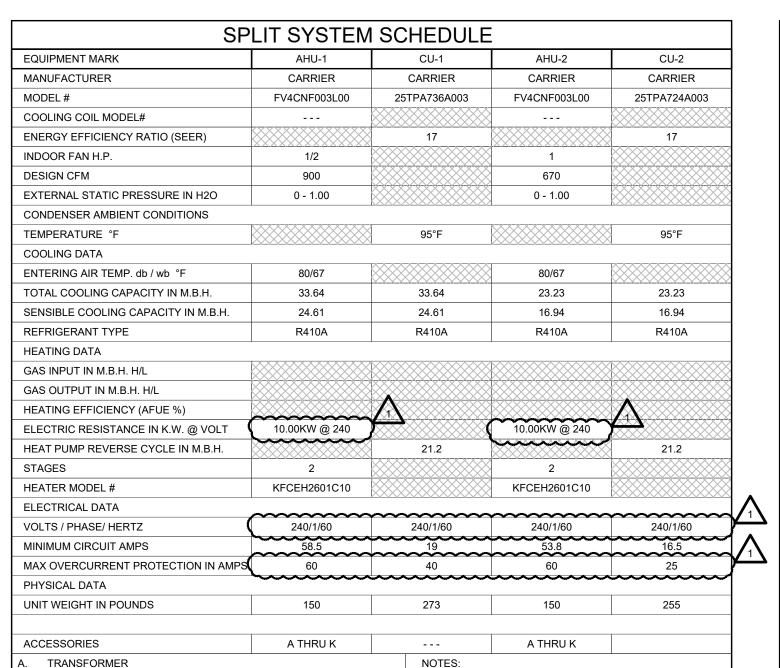
ELECTRICAL SCHEDULES & SINGLE LINES

Project No.

E-501

22078

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MAXIMUM						SMAC	NA PRE	SSURE	CLASS					
DUCT DIMENSIONS 4" - 8"	0.50 W.C.		1.00	W.C.	2.00	W.C.	3.00 W.C.		4.00 W.C.		6.00 W.C.		10.00 W.0	
	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	T
4" - 8"	24	-	24	-	24	-	24	24	24	24	24	24	22	Ī
9" - 10"	24	-	24	-	24	-	24	24	22	24	22	24	20	Ī
11" - 12"	24	-	24	-	24	-	24	24	22	24	20	24	18	Ī
13" - 14"	24	-	24	-	24	24	22	24	20	24	20	22	18	Ī
15" - 16"	24	-	24	-	24	24	22	24	20	24	18	22	16	Ī
17" - 18"	24	-	24	24	22	24	20	24	18	24	18	22	16	Ī
19" - 20"	24	24	24	24	20	24	18	24	18	24	16	22	-	Ī
21" - 22"	22	24	22	24	18	24	18	24	18	24	16	22	-	Ī
23" - 24"	22	24	22	24	18	24	18	24	18	22	16	22	-	Ī
25" - 26"	20	24	20	24	18	24	18	24	16	22	-	20	-	Ī
27" - 28"	18	24	18	24	18	24	18	22	16	22	-	20	-	T
29" - 30"	18	24	18	24	18	24	18	22	16	22	-	18	-	T
31" - 36"	18	24	18	24	16	24	16	20	-	20	-	18	-	Ī
37" - 42"	16	24	16	24	-	22	-	20	-	18	-	16	-	I
43" - 48"	16	24	16	22	-	22	-	18	-	18	-	16	-	I
49" - 54"	-	24	-	22	-	20	-	18	-	18	-	16	-	I
55" - 60"	-	24	-	22	-	20	-	18	-	16	-	16	-	I
61" -72"	-	22	-	18	-	18	-	16	-	16	-	16	-	I
73" -84"	-	22	-	18	-	16	-	16	-	16	-	16	-	
85" -96"	-	20	-	18	-	16	-	16	-	16	-	16	-	
97" -108"	-	18	-	16	-	16	-	16	-	16	-	16	-	$\prod$
109" -120"	-	16	-	16	-	16	-	16	-	16	-	16	-	ľ

COLUMN A: DUCT GAUGE REQUIREMENT WITH NO REINFORCEMENT COLUMN B: DUCT GAUGE WITH REINFORCEMENT AS INDICATED BELOW 0.50" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR SPACING 19" -

1.2.2. 1.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR SPACING 17" -108" AND 4 FEET SPACING FOR 109" - 120" 2.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 13" - 84" AND 4 1.2.3. FEET SPACING FOR 85" - 108" AND 3 FEET SPACING FOR 109" - 120".

1.2.4. 3.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR G 4" - 84", 4 FEET SPACING FOR 85" - 96" AND 3 FEET SPACING FOR 97" - 120". 1.2.5. 4.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 60". 4 FEET SPACING FOR 61" - 72" AND 3 FEET SPACING FOR 73" - 120". 6.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 48", 4 FEET

SPACING FOR 49" - 60" AND 3 FEET SPACING FOR 61" - 120". 10.00" W.C. PRESSURE CLASS: 5 FEET REINFORCING SPACING FOR 4" - 42", 4 FEET SPACING FOR 43" - 54", 3 FEET SPACING FOR 55" - 72" AND 2 FEET SPACING FOR 73" - 120".

	MARK	SD-6S	SD-8	SD-10	RG-1	RD-8	RD-10	RD-12
Щ	MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
ER U	MODEL NUMBER	SPD	SPD	SPD	535 SERIES	SPD	SPD	SPD
SE	TYPE	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE	LOUVERED	FLAT PLAQUE	FLAT PLAQUE	FLAT PLAQUE
$\supset$ $\square$	DIRECTION	4-WAY	4-WAY	4-WAY	1-WAY	4-WAY	4-WAY	4-WAY
ᄔ	MOUNTING	LAY-IN	LAY-IN	LAY-IN	SIDEWALL	LAY-IN	LAY-IN	LAY-IN
	G/R/D	D	D	D	G	D	D	D
- 111	CFM	AS NOTED	AS NOTED	AS NOTED				
	NECK SIZE	6"Ø	8"Ø	10"Ø	16" X 8"	8"Ø	10"Ø	12"Ø
	PANEL SIZE	12x12	24x24	24x24	18X10	24x24	24x24	24x24
IST GR	MATERIAL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL
9 0	FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
REGIST AND GRI	DAMPER	YES	YES	YES	NO	NO	NO	NO
<b>י</b> ∀	SOUND (NC)	<20	<20	<20	<25	<25	<25	<25
	REMARKS / NOTES	1,2	1,2	1,2	2	2	2	2

1.2.7.

NOTES:

1. DIFFUSERS SHALL BE 4-WAY FLOW UNLESS OTHERWISE NOTED PROVIDE WITH DRYWALL WALL MOUNTING FRAME WHERE REQUIRED. PROVIDE WITH DUCT MOUNTING FRAME WHERE REQUIRED.

1. CONDENSING UNIT SHALL BE INSTALLED ON

AIR HANDLING UNIT TO HAVE ONE (1) 3/4" PVC

INSTALL SYSTEMS PER MANUFACTURER'S

CONDENSATE DRAIN LINES PIPED TO NEAREST

CONCRETE PAD

FLOOR DRAIN.

INSTRUCTIONS.

				EDULE			
WIDTH	HEIGHT	WALL THICKNESS	MATERIAL	DAMPER	MANUFACTURER	MODEL	NOTES
AKE 16"	12"	4"	GALV. STEEL		GREENHECK	FSJ-402	1,2,3,4
_			WIDTH HEIGHT THICKNESS	WIDTH HEIGHT THICKNESS MATERIAL	WIDTH HEIGHT THICKNESS MATERIAL DAMPER	WIDTH HEIGHT THICKNESS MATERIAL DAMPER MANUFACTURER	WIDTH HEIGHT THICKNESS MATERIAL DAMPER MANUFACTURER MODEL

PROVIDE WITH GRAVITY BACKDRAFT DAMPER. INTERNAL BIRD SCREEN. COLOR TO BE SELECTED BY ARCHITECT. OR EQUAL.

PROVIDE WITH SPEED CONTROLLER.

EXHAUST FAN SCHEDULE														
MARK	MANUFACTURER / MODEL #		FAN DA	·ΤΑ		MOTOR DATA	BACKDRAFT	NOTES						
		CFM	SP	RPM	VOLTS	PHASE	WATTS / HP	DAMPER	NOTES					
EF-1	GREENHECK / SP-A90	70	0.25	950	120	1	13W	YES	1					
EF-2	GREENHECK / SP-A90	70	0.25	950	120	1	13W	YES	1					
EF-3	GREENHECK / SP-A90	70	0.25	950	120	1	13W	YES	1					
EF-4	GREENHECK / SP-A125	100	0.25	1058	120	1	18W	YES	1					
NOTES:														

300 CFM O.A. Required 69 CFM O.A. Required

216 CFM O.A. Required

### Outdoor Air Calculations Per ASHRAE Standard 62.1

						Minimum Ventilation Known Occupancy		Minim um Ventilation Default Values			M inim um	Total	Breathing	Prim ary Prim ary	System #1	Max Zp: 0.33	System #2	Max Zp: 0.20	System #3	Max Zp: 0.33	
Room	Room	Room	System	Occupancy Category	Exhaust Occupancy Category	CFM Per	CFM per	No. of	People per	CFM	Number	Exhaust	Exhaust	Zone	Outdoor Air						1
lum be r	Nam e	Area	Number	(Table 6.1)	(Table 6.4)	Person	1,000 Ft <sup>2</sup>	People	1,000 Ft <sup>2</sup> (Pz)	Per	of	Rate	Rate	Outdoor	Fraction	Supply	Outdoor Air	Supply	Outdoor Air	Supply	Outdoor Air
						(Rp)	(Ra)	(Pz)	(Pz)	Person	People	(Table 6.4)		Air	(Zp)						
101	Meeting Room	792 Ft <sup>2</sup>	1	General - Conference Meeting					50.00	6.00	40.00			240.00	0.33	900	300				
102	Meeting Room	517 Ft <sup>2</sup>	3	General - Conference Meeting					50.00	6.00	26.00			156.00	0.33					600	195
103	Storage	119 Ft <sup>2</sup>	2	General - Storage Rooms														150			
104	Workroom	219 Ft <sup>2</sup>	2	Office Buildings - Office Space					5.00	17.00	2.00			34.00	0.19			225	38		
105	Data Room	21 Ft <sup>2</sup>		Unoccupied																	
106	Women	72 Ft <sup>2</sup>	2	Not Applicable - Exhaust Only	Toilets - Public								70.00					60			
107	Men	80 Ft <sup>2</sup>	2	Not Applicable - Exhaust Only	Toilets - Public								70.00					60			
108	Break Room	128 Ft <sup>2</sup>	2	General - Break Rooms					25.00	7.00	4.00			28.00	0.20			175	31		
109	HVAC	39 Ft <sup>2</sup>	2	Unoccupied																	
110	HVAC	14 Ft <sup>2</sup>	2	Unoccupied																	
111	Restroom	69 Ft <sup>2</sup>	3	Not Applicable - Exhaust Only	Toilets - Public								70.00							70	
112	Workroom	126 Ft <sup>2</sup>	3	Office Buildings - Office Space					5.00	17.00	1.00			17.00	0.14					150	21
Notes																3.0 Ton	System	2.0 Ton	System	2.0 Ton	System
																25% Out	door Air	9% Outo	door Air	27% Ou	tdoor Air
																Peopl	le: 40	Peop	ole: 6	Peop	ole: 27
																System Effi	ciency: 0.80	System Effi	iciency: 0.90	System Eff	ficiency: 0.80
																Occupant Di	versity: 1.00	Occupant Di	versity: 1.00	Occupant D	iversity: 1.00

THERMAL EXPANSION VALVE.

BOTTOM RETURN FILTER RACK.

REFRIGERANT FILTER/ DRIER.

PROGRAMMABLE THERMOSTAT

FURNANCE MOUNTING PAD

REFRIGERANT LINE SET

RETURN AIR PLENUM

INSULATED PLENUM COOLING COIL.

COMPRESSOR SHORT CYCLE CONTROL.

### **HVAC NOTES**

#### SCOPE OF WORK

- 1.1. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- 1.2. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE 2006, ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
- 1.3. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE
- 1.4. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

2.1. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

### FLEXIBLE TYPE DUCT

3.1. SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 5 LINEAR FEET PER RUN. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.

### REFRIGERANT PIPING

- 4.1. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR-FLEX TYPE INSULATION.
- 4.2. SHALL BE TYPE "K" COPPER TUBING, WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER DUCTWORK.

### SHEET METAL DUCT WORK

- 5.1. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
- 5.2. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
- 5.3. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.
- 5.4. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
- 5.5. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
- 5.6. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
- 5.7. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.
- 5.8. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A 1/2" ACOUSTICAL DUCT LINER.
- DRAINAGE PIPING (CONDENSATE)
- 6.1. SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". CONDENSATE DRAINS SHALL BE ROUTED TO FLOOR DRAIN OR INDIRECT WASTE

### HVAC CONTROLS

7.1. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS

8.1. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF

### WIRING FOR EACH HVAC UNIT. PIPE SUPPORTS

9.1. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

### **MISCELLANEOUS**

- 10.1. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.
- 10.2. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
- 10.3. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
- 10.4. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

### TESTING AND BALANCING

11.1. THE HVAC SYSTEM SHALL BE TESTED AND AND BALANCED BY AN INDEPENDENT AGENCY, UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

### <u>GUARANTEE</u>

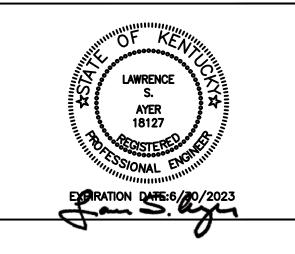
- 12.1. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
- 12.2. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

### PROJECT GENERAL NOTES

- THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSEI DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
- THE MECHANICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.
- EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.
- THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
- IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH SUCH.
- ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE KENTUCKY MECHANICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.



Lexington Cincinnati Cleveland Dallas Charleston



Revisions:  $\sqrt{1}$  Addendum #1 March 06, 2023 Issue Date: January 20, 2023

## Spencer County Public Library Accessory Building 116 Taylorsville Rd Taylorsville, KY 40071

Mechanical Schedules

Project No.