ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR THE STATE OF MISSOURI

Improvements to HVAC
Broadway State Office Building
Jefferson City, MO
PROJECT NO.: 02324-01

Bid Opening Date: 1:30 PM, August 1, 2024 (Unchanged)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

- 1. Section 235700 Heat Exchangers for HVAC
 - a. Add paragraph 2.1-A.5 as follows:
 - "5. Thrush Co. Inc."
- 2. Section 237313 Modular Indoor Central Station Air Handling Units
 - a. Revise 2.2-E as follows:
- "E. Control Panel shall be designed for installation in the AHU adjacent to the inlet side of the fan wall, with a NEMA 1 cabinet, with SCCR of 100 kAIC, and shall include an integral means of disconnect and hand/off/automatic control and 0-10 VDC speed control for when in manual operation. The fan array manufacturer shall provide wiring for controls and power from the control panel to each fan for field installation. BAS Inputs to fan shall include a start/stop signal (binary) and fan speed setting (analog, 0-10 VDC) to control static pressure from the BAS. The control panel shall transmit on/off status (binary) to the BAS, and transmit alarm (binary) to the BAS if one or more fans fails."
- 3. Section 238216 Air Coils
 - a. Add paragraph 2.1-A.9 as follows:
 - "9. Temptrol"

DRAWING CHANGES:

- 1. Sheet M102 Second Floor HVAC
 - a. Revise airflow balance tag at Southeast RA shaft.
 - b. Add keynote M84 as follows:
 "PROVIDE AND INSTALL FIRE-RATED, 24"X36", LOCKABLE, STEEL ACCESS PANEL."
 - c. See revised Sheet M102, attached.
- 2. Sheet M108 Eighth Floor HVAC Plan
 - a. Revise keynote M49 as follows:

 "EXISTING 2.5" ROOF SLAB TO BE REMOVED FROM INSIDE FACE OF JOIST TO INSIDE FACE OF JOIST FOR OPENING. OPENING LENGTH ALONG JOIST SHALL NOT EXCEED 36". TRANSITION DUCT AND ROUTE DUCT UP THROUGH NEW CURB TO EF-1 ABOVE. CONTRACTOR SHALL COORDINATE WITH THE ROOFING SYSTEM MANUFACTURER TO ENSURE THAT THE WARRANTY ON THE EXISTING VERSICO ROOFING SYSTEM IS MAINTAINED."

ADDENDUM NO. 1

- b. Add keynote M82 as follows: "OFFSET EXISTING SUPPLY AIR DUCT IN THIS AREA AS NECESSARY TO ROUTE EXHAUST DUCT."
- c. Add keynote M83 as follows: "CAP EXISTING BRANCH DUCT ABOVE CEILING."
- d. See revised sheet M108, attached.
- 3. Sheet M601 Mechanical Schedules
 - a. Revise Shell and Tube Heat Exchanger Schedule
 - b. Revise Fan Array Schedule.
 - c. See revised Sheet M601, attached.
- 4. Sheet M701 Airflow Control Schematic Diagram
 - a. Revise airflow tags throughout.
 - b. See revised Sheet M701, attached.
- 5. Sheet E201 Enlarged Penthouse Electrical Plan
 - a. Revise panel names of SP9-1 AND SP9-1A to SP9-2 and SP9-2A respectively to match existing panel labels.
 - b. Revise circuits to pumps CWP-3 and HWP-1 from three phase to single phase.
 - c. Revise keynote E01 to reference panels SP9-2 and SP9-2A in lieu of SP9-1 and SP9-1A as noted above.
 - d. Revise keynote E02 as follows: "EXISTING PANEL PDP-1 IS EATON MODEL PRL4F POW-R-LINE C. REPLACE EXISTING 200A SWITCH WITH 125A SWITCH TO FEED RAF-1." REPLACE EXISTING 200A SWITCH WITH 175A SWITCH TO POWER SAF-1."
 - e. Revise keynote E03 to reference panel SP9-2A in lieu of SP9-1A as noted above.
 - f. Add panel schedule for panel SP9-2A.
 - g. See revised Sheet E201, attached.

GENERAL COMMENTS:

- 1. The Pre-Bid Meeting was held July 22nd, 2024, followed by a walk-through of the project site. The Pre-Bid Meeting sign-in sheet is attached.
- 2. If an additional site visit is necessary, please contact Shannon Thompson, Shannon.Thompson@oa.mo.gov who will coordinate with the on-site personnel.
- 3. Please contact April Howser, contract specialist, at April.Howser@oa.mo.gov for questions about bidding procedures, MBE/WBE/SDVE goals, good faith effort forms, and bid submittal requirements.
- 4. All bids shall be submitted on the provided bid forms without additional terms and conditions, modifications, or stipulations. Each space on the bid forms shall be properly filled. Failure to do so will result in rejection of the bid.
- 5. MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. All MBE, WBE, and SDVE contractors, subcontractors, and suppliers must be certified by the State of Missouri, Office of Equal Opportunity. No other certifications from other Missouri certifying agencies will be accepted. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.

ADDENDUM NO. 1

- 6. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
- 7. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
- 8. Current Planholders list available online at: https://oa.mo.gov/facilities/bid-opportunities/bid-listing-electronic-plans Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, 573-446-7768 to order official plans and specifications.

ATTACHMENTS:

- 1. Pre-bid Sign in sheet
- 2. Sheet M102 Revised 07/25/2024
- 3. Sheet M108 Revised 07/25/2024
- 4. Sheet M601 Revised 07/25/2024
- 5. Sheet M701 Revised 07/25/2024
- 6. Sheet E201 Revised 07/25/2024

END ADDENDUM NO. 1

July 22nd, 2024 10:00 AM

Name & Title	Company Name & Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee & E-Mail Address of Individual filling out Bid Documents
Shannon Thompson	State of Missouri		573-526-3166	Channan thampson@oo mo gov
Project Manager	OA/FMDC		573-257-7137	Shannon.thompson@oa.mo.gov
Dustin Cooper	State of Missouri		573-526-0711	Dustin.cooper@oa.mo.gov
Construction Administrator	OA/FMDC			
Jamie Abshier Engineer	FSC Inc		913-693-5987	-jabshier@fsc-inc.eem
Glenn Smith Enginter	KLINGNOR & ASSOCIATES	\$	573-355-5988	GSmithe Kungner. Com
JON PINET FMDC	OA/FMDC		58-522-5641	JON. PINET @ OA.MO.GOV
Rusty Allen ARSI Inc.	ANSI INC.	SOVE	573-896-0222	rustyallen@arsi-mo.com

July 2	22 nd ,	2024	10:00	AM
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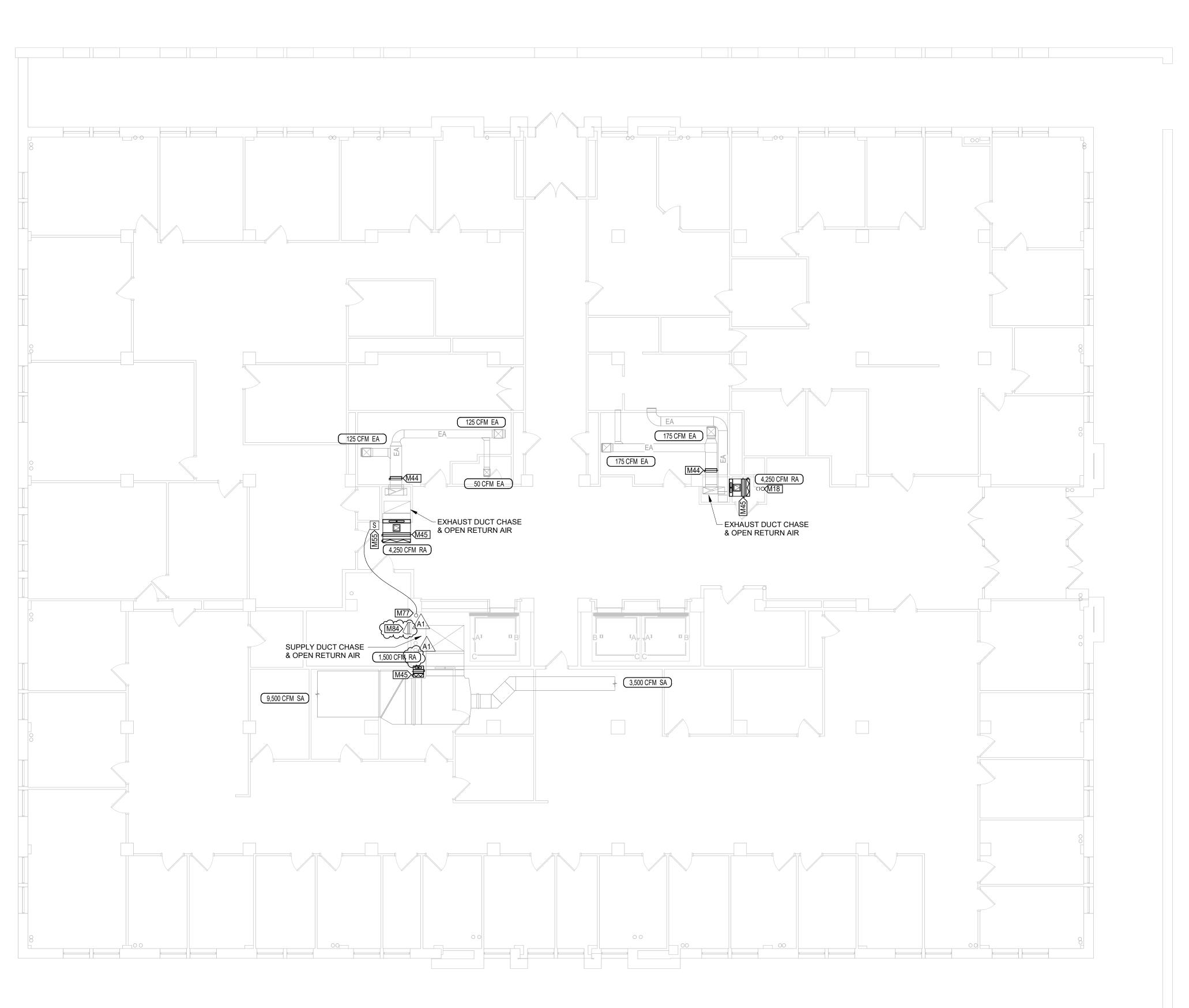
Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
ARSI, Inc. Matt Roark	ARSI, Inc	SDUE	896.0122	Mattronk @ 9101-mo.com
Adam Rush	Budsovich		573-301-9114	ARUSH@ BUDROVICH. COM
Rick Clark	Kaiser Electric		556-6188	r clark e Kaise Centralmo. Com
Brian Jaco	FMDC	4.0	573-536-1383	brian.jaco@oa.mo.gov
Caig linhardt	Meyer Electric	T.	573-893-2335	Craiz @ meyer electric.net
K-le Boeckman	Butzes		573-619-2827	Kyleb@hgbutzes.com

July 22nd, 2024 10:00 AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
John Christian Project Mingger	Schneider Electric		573-644-4774	Jehristian esecoje, com
Brad Armstrong Estimator	Butzer Mechanical	NIA	573-636-4115	brada@hgbutzer.com
Curtis Dittmer Estimator	Butzer Mechanical	NA	573-636-4115	Curtis De HGButzer. com
Ross Gilbert PM	IFS		573-366-8091	rgilbert@intfs.com
Tim Scott Pm	American Arborbor Abstonent. Oba Midwest Jervice Group	WBE	636-875.2106	+scott@msg.stl.com
MIKE STILLWELD PM	ALLOY GROUP ABATEMENT		314-327-1650	MStillwell@alloygroup.com

July 22nd, 2024 10:00 AM

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address of Attendee and E-Mail Address of Individual filling out Bid Documents
Brad Berondzen	OFFMPC		751-7623	Brad Berendzen (DCA Mo.gov
				-
		,		
				- B



KEYNOTE LEGEND

DESCRIPTION

M18 ROUTE 3" LPS AND 2" LPR UP ADJACENT TO BUILDING COLUMN.

M44 REPLACE EXISTING MANUAL BALANCING DAMPER. FIELD VERIFY DUCT SIZE PRIOR TO PURCHASING. M45 REMOVE EXISTING FIRE DAMPER AND MANUAL BALANCE DAMPER AND PROVIDE 12"x12" ACCESS DOOR, FIRE DAMPER, MANUAL BALANCE DAMPER, AND AUTOMATIC CONTROL

M55 INSTALL FLOOR DIFFERENTIAL PRESSURE SENSOR IN THIS LOCATION AND ROUTE LOW-SIDE TUBE TO OUTSIDE STATIC PRESSURE REFERENCE. CONTRACTOR

M77 PROVIDE 2-1/2" TYPE L COPPER PIPE FOR OUTSIDE STATIC PRESSURE REFERENCE AND
ROUTE-UP-AND DOWN-IN-SHASE

M84 PROVIDE AND INSTALL FIRE-RATED, 24"X36", LOCKABLE, STEEL ACCESS PANEL.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ANTHONY L. DIEWOLD - ENGINEER MO # - 2016000028

OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSTRUCTION**

IMPROVEMENTS TO HVAC

BROADWAY STATE OFFICE BUILDING

221 W. HIGH STREET JEFFERSON CITY, MISSOURI

PROJECT # O2324-01

SITE# 1001 ASSET # 3101001041

REVISION: Addendum 01 \\
DATE: 07/25/2024 \A1 REVISION: DATE: REVISION: DATE:

ISSUE DATE:05/30/2024

CAD DWG FILE:
DRAWING BY: ALD
CHECKED BY: GCS DESIGNED BY: ALD

SHEET TITLE:

SECOND FLOOR - HVAC PLAN

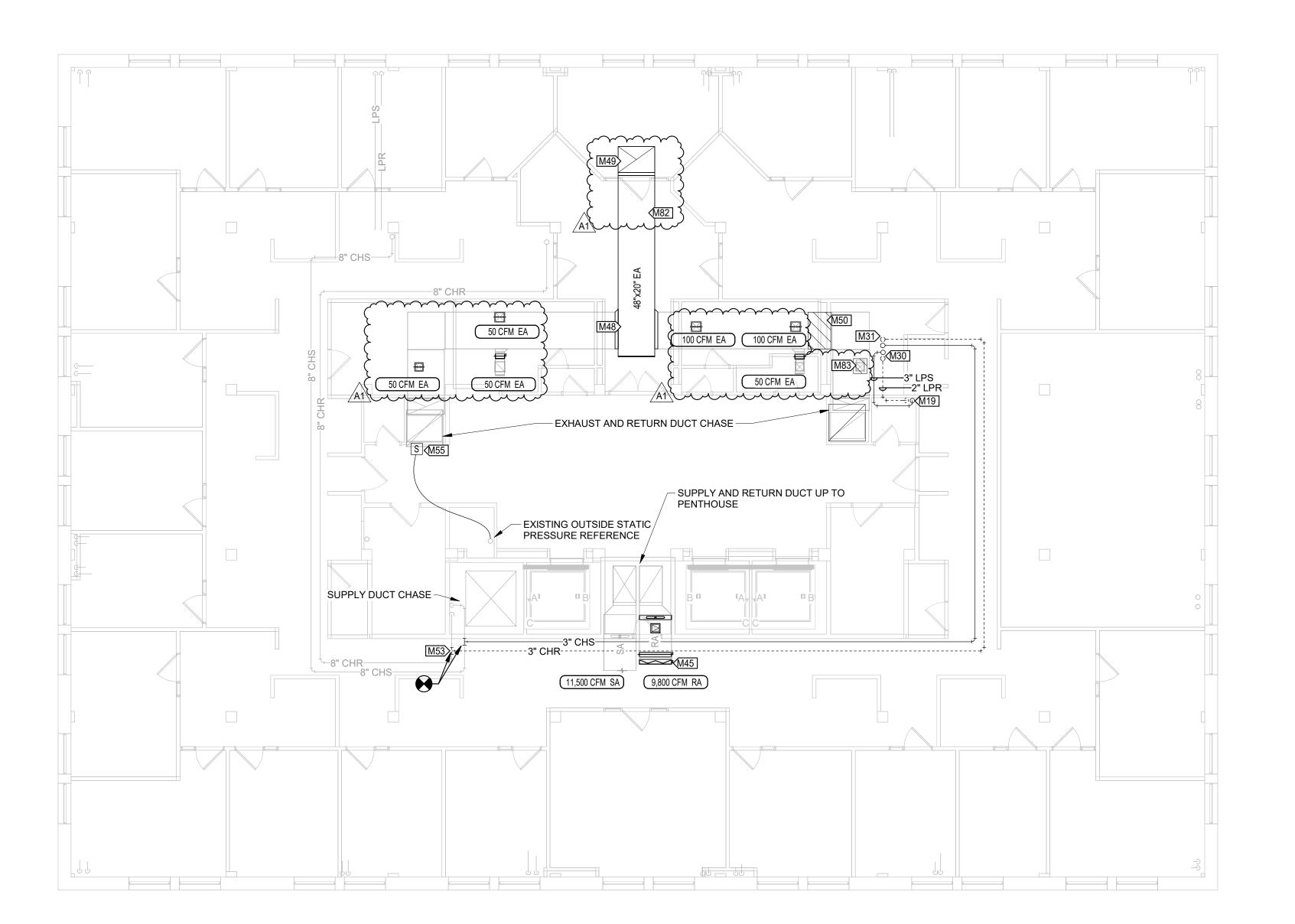
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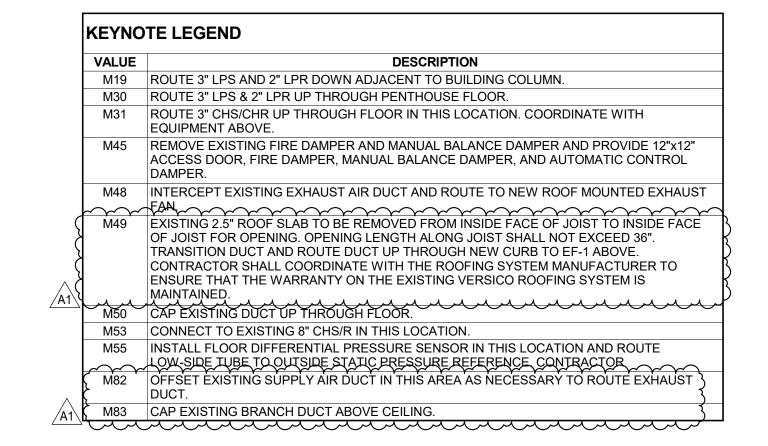
SHEET 6 of 23

MAY 30, 2024

1 SECOND FLOOR - HVAC PLAN 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"





STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



ANTHONY L. DIEWOLD - ENGINEER MO # - 2016000028

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3622 Endeavor Ave., Suite 117

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Burlington, IA Pella, IA Hannibal, M.

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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SHEET TITLE:

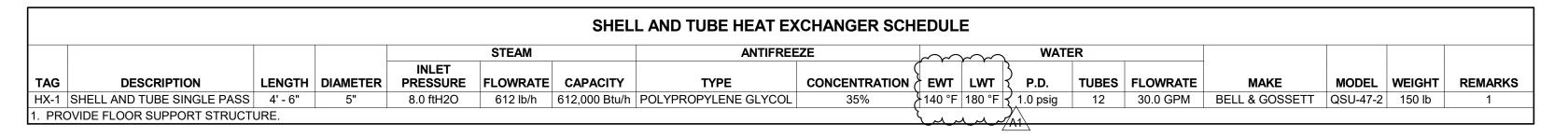
EIGHTH FLOOR - HVAC PLAN

SHEET NUMBER:

SHEET 12 of 23 MAY 30, 2024

M108

0 4' 8' 16 SCALE: 1/8" = 1'-0"



			EX	HAUST I	AN SCHE	DULE							
						ELECTRICAL	_			BASIS OF DESIGN			
TAG	DESCRIPTION	AIRFLOW	E.S.P.	VOLT	FREQ	PHASE	MCA	MOP	MAKE	MODEL	WEIGHT	REMARKS	
EF-1	BELT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	4,500 CFM	3.00 in-wg	208 V	60 Hz	3	18 A	35 A	GREENHECK	CUBE-300-XP-50	275 lb	1	
1. PROVI	. PROVIDE MINIMUM 14" ROOF CURB, ISOLATION DAMPER, VARIABLE FREQUENCY DRIVE, AND DISCONNECT SWITCH												

	HYDRONIC COIL SCHEDULE																				
							MAX		E	AT	L	AT		FLUI)						
TAG	DESCRIPTION	LENGTH	WIDTH	DEPTH	ROWS FINS/INC	H AIRFLOW	VELOCITY	AIR P.D.	DB	WB	DB	WB	CAPACITY	TYPE	CONCENTRATION	EWT	LWT	FLOWRATE	P.D.	WEIGHT	REMARKS
CC-2 F	IYDRONIC COOLING COIL	60 in	60 in	12 in	8 12	10,500 CFM	450 FPM	1.13 in-w	g 95.0 °F	78.0 °F	53.5 °F	53.5 °F	925,200 Btu/h	WATER	100%	44 °F	64 °F	92.3 GPM	13.4 ftH2O	650 lb	1
HC-1 F	IYDRONIC HEATING COIL	60 in	60 in	12 in	1 10	10,500 CFM	450 FPM	0.08 in-w	g 0.0 °F	0.0 °F	55.0 °F	38.0 °F	612,500 Btu/h	PROPYLENE GLYCOL	35%	180 °F	140 °F	30.0 GPM	5.0 ftH2O	150 lb	1
1. PRO	PROVIDE SUPPORT STRUCTURE FROM FLOOR.																				

								FA	N ARR	AY SCHED	ULE										
							FAN				MAX. CABINE	T DIMENSIONS		ELI	ECTRICA	AL			BASIS OF DES	GN	
	TAG	DESCRIPTION	MAX AIRFLOW	MIN AIRFLOW	MAX. S.P.	TYPE	QUANTITY	POWER	SPEED	WHEEL DIA.	LENGTH	HEIGHT	VOLT	FREQ	PHASE	MCA	MOP	MAKE	MODEL	WEIGHT	REMARKS
	RAF-1	RETURN AIR FAN ARRAY	90,000 CFM	20,000 CFM	3.50 in-wg	CENTRIFUGAL PLENUM	12	8 hp	2104	19.7 in	18' - 0"	6' - 8"	480 V	60 Hz	3	121 A	125 A	Q-PAC	1700523	1,300 lb	1, 3
	SAF-1	SUPPLY AIR FAN ARRAY	100,000 CFM	40,000 CFM	5.70 in-wg	CENTRIFUGAL PLENUM	16	9 hp	2192	19.7 in	15' - 7"	10' - 0"	480 V	60 Hz	3	160 A	175 A	Q-PAC	1700523	3,650 lb	1-2
-																	1	'		•	
_	2. FAN /	1. INSTALL FAN ARRAY BULKHEAD PER MANUFACTURER RECOMMENDATIONS. 2. FAN ARRAY SHALL BE CONTROLLED BASED ON BUILDING STATIC AIR PRESSURE.																			
	3. FAN /	ARRAY SHALL BE CONTROLI	LED BASED ON N	∕IIXED AIR PLEN	UM STATIC A	IR PRESSURE.															

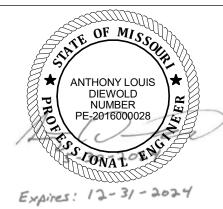
										AIR FILTE	R SCHED	ULE								
FILTER SECTION INDIVIDUAL FINAL FILTERS INDIVIDUAL FINAL FILTERS																				
											PRESSU	RE DROP							PRESSU	RE DROP
TAG	AIRFLOW	LENGTH	HEIGHT	VELOCITY	DESCRIPTION	EFFICIENCY	QUANTITY	SIZE	THICHNESS	MEDIA AREA	CLEAN	DIRTY	DESCRIPTION	EFFICIENCY	QUANTITY	SIZE	THICKNESS	FACE AREA	CLEAN	DIRTY
MAF-1	100,000 CFM	18' - 0"	12' - 0"	475 FPM	PLEATED DISPOSABLE	MERV 8	54	2'x2'	2' - 0"	12.1 SF	0.25 in-wg	0.75 in-wg	EXTENDED SURFACE HIGH EFFICIENCY	MERV 13	54	2'x2'	1' - 0"	39.2 SF	0.10 in-wg	0.52 in-wg

		CIR	CULATING	PUMP S	CHEDU	JLE					
					ELEC1	TRICAL		BA	SIS OF DES	SIGN	
TAG	DESCRIPTION	FLOW	HEAD	VOLT	FREQ	POLES	MOP	MAKE	MODEL	WEIGHT	REMARKS
CWP-3	CLOSE COUPLED INLINE CIRCULATOR PUMP	92.3 GPM	20.0 ftH2O	120 V	60 Hz	1	15 A	TACO	1935	150 lb	1-2
HWP-1	CLOSE COUPLED INLINE CIRCULATOR PUMP	30.0 GPM	25.0 ftH2O	120 V	60 Hz	1	20 A	TACO	1915	150 lb	1-2

	GLYCOL FEED SYSTEM SCHEDULE															
	SYSTEM TANK															
TAG	DESCRIPTION	TYPE	FLUID	CONCENTRATION	LENGTH	WIDTH	HEIGHT	VOLUME	VOLT	FREQ	PHASE	MOP	MAKE	MODEL	WEIGHT	REMARKS
GFS-1	PACKAGED GLYCOL FEED SYSTEM	SIMPLEX	POLYPROPYLENE GLYCOL	35	1' - 0"	1' - 0"	1' - 6"	6.0 gal	120 V	60 Hz	1	20 A	WESSELLS	G-6	75 lb	1
1. SYSTE	1. SYSTEM TO BE SET ON FLOOR BELOW HEAT EXCHANGER.															

EXPANSION TANK SCHEDULE													
					TANK	ACCEPTANCE	E						
TAG	DESCRIPTION	MAX. PRES.	MAX. TEMP.	PRE-CHARGE	VOLUME	VOLUME	MAKE	MODEL	WEIGHT	REMARKS			
ETK-1	FLOOR MOUNTED BLADDER STYLE	125 psi	240 °F	15 psi	8.0 gal	5.0 gal	TACO	CX30-125	100 lb	1			
1. INCLUI	DE SIGHT GLASS.												

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



ANTHONY L. DIEWOLD - ENGINEER MO # - 2016000028

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

IMPROVEMENTS TO HVAC

BROADWAY STATE OFFICE BUILDING

221 W. HIGH STREET JEFFERSON CITY, MISSOURI

PROJECT # O2324-01 SITE # 1001

ASSET # 3101001041

REVISION: Addendum 01 ADATE: 07/25/2024 A1 REVISION: DATE: REVISION:

DATE: ISSUE DATE:05/30/2024

CAD DWG FILE:
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CHECKED BY: GCS
DESIGNED BY: ALD

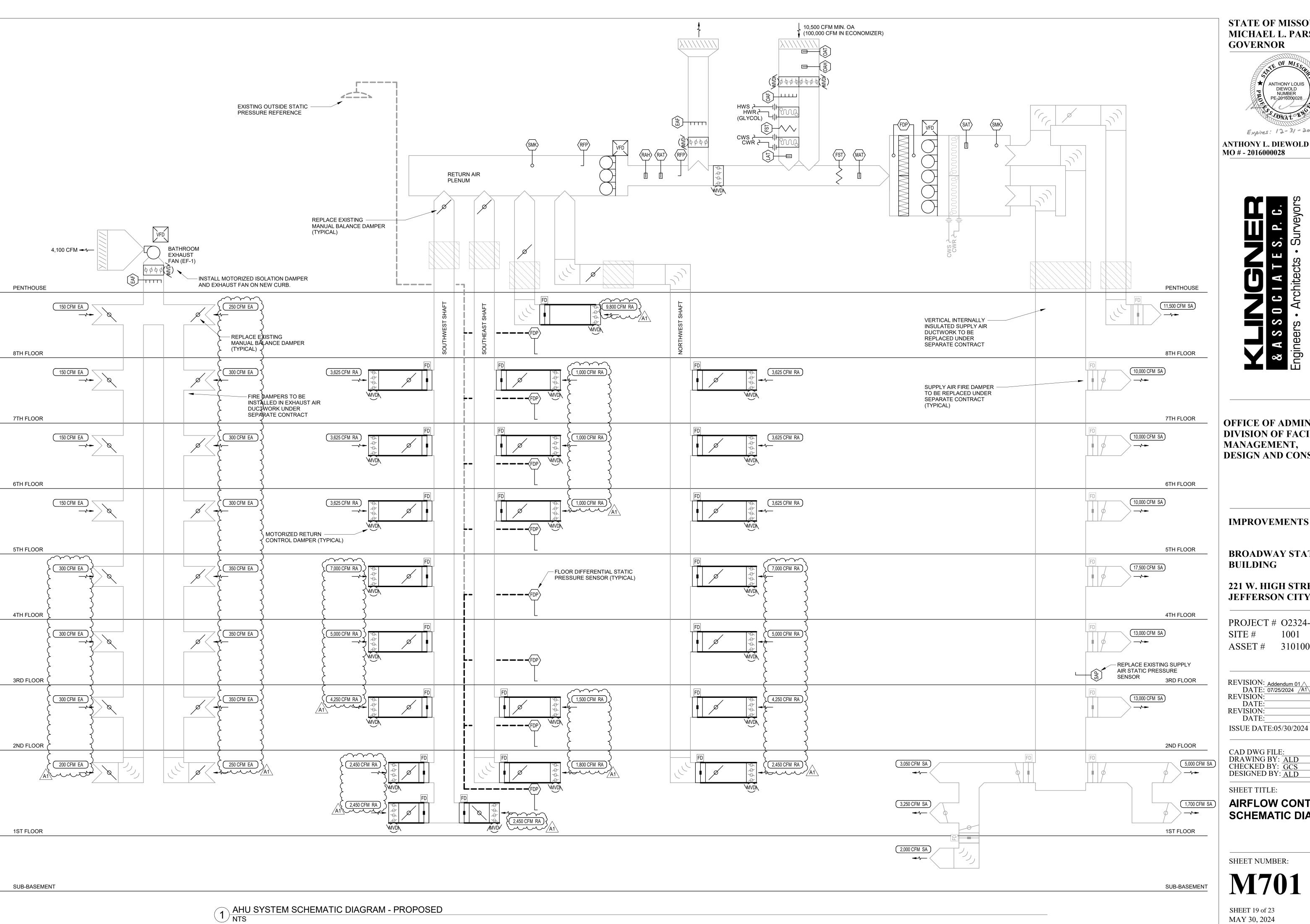
SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

M601

SHEET 18 of 23 MAY 30, 2024



STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



ANTHONY L. DIEWOLD - ENGINEER MO # - 2016000028

OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSTRUCTION**

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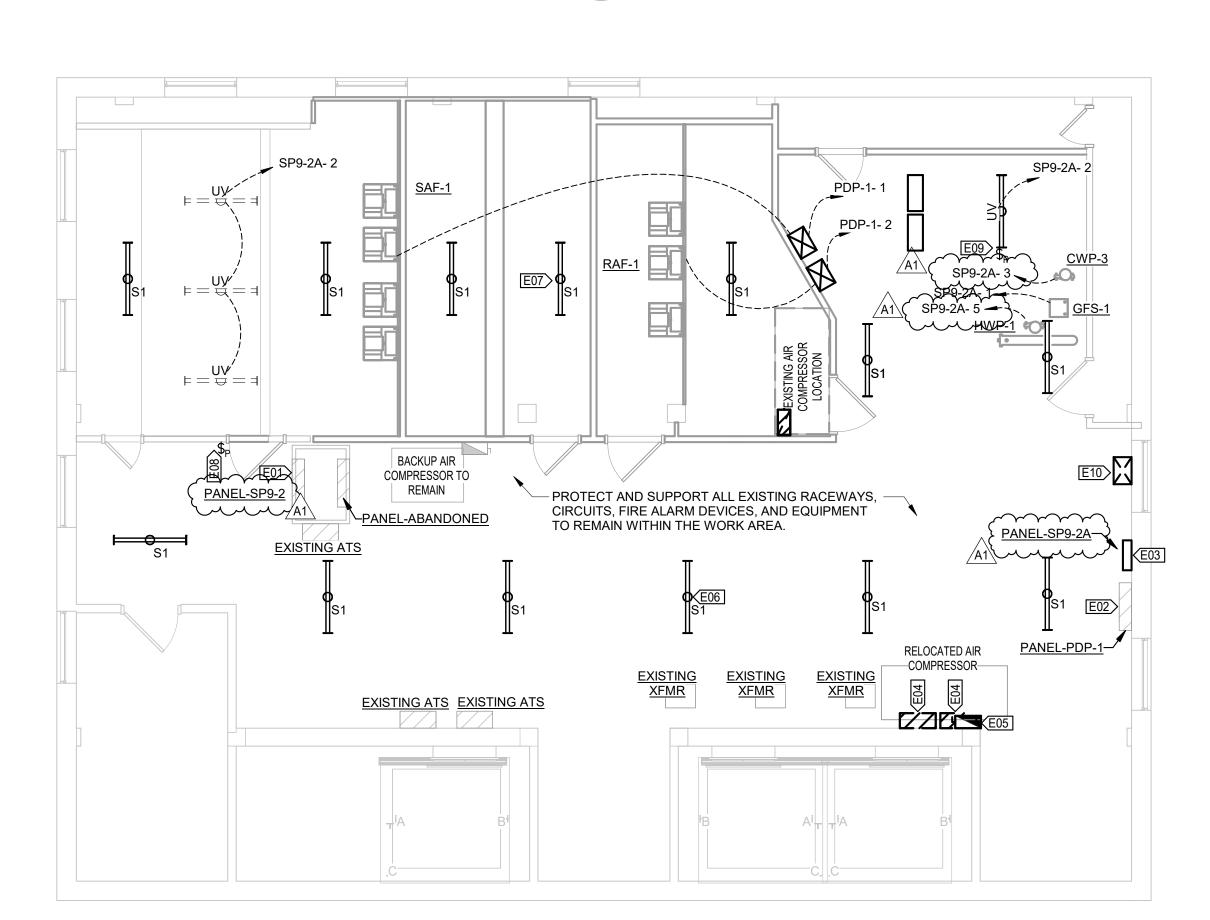
SHEET TITLE:

AIRFLOW CONTROL SCHEMATIC DIAGRAM

SHEET NUMBER:

SHEET 19 of 23 MAY 30, 2024





E01 (PROVIDE NEW FEEDER FROM PANEL SP9-2 TO NEW EXHAUST FAN. REPLACE EXISTING RESTROOM EXHAUST FAN CIRCUIT BREAKER WITH NEW 35A. PROVIDE NEW 60A BREAKER AND FEEDER TO NEW SUB-PANEL SP9-2A.
E02 \	EXISTING PANEL PDP-1 IS EATON MODEL PRL4F POW-R-LINE C. REPLACE EXISTING 200A SWITCH WITH 125A SWITCH TO FEED RAF-1. REPLACE EXISTING 200A SWITCH WITH 175A SWITCH TO POWER SAF-1.
E03 {	DEMOLISH EXISTING RETURN FAN VFD IN THIS LOCATION AND INSTALL NEW PANEL SP9-2A. DEMOLISH EXISTING SUPPLY FAN VFD IN THIS LOCATION.
E05	RELOCATE EXISTING AIR COMPRESSOR CIRCUIT FROM EXISTING AHU WALL TO THIS LOCATION.
E06	REUSE EXISTING PENTHOUSE LIGHTING CIRCUIT AND SWITCHES AND PROVIDE EIGHT (8) LED STRIP LIGHT FIXTURES MOUNTED AS HIGH AS POSSIBLE.
E07	REUSE EXISTING AIR HANDLING UNIT LIGHT FIXTURE CIRCUIT AND PROVIDE FIVE (5) LED STRIP LIGHT FIXTURES MOUNTED AS HIGH AS POSSIBLE WITHIN AIR HANDLING UNIT CABINET.
E08	PROVIDE DOOR POSITION SWITCH ON EXISTING DOOR. WHEN DOOR IS OPEN UV LIGHTING SHALL BE OFF.
E09	PROVIDE DOOR POSITION SWITCH ON COOLING COIL ACCESS DOOR INTO COOLING COIL SECTION. WHEN DOOR IS OPEN UV LIGHTING SHALL BE OFF.
E10	DEMOLISH EXISTING RETURN FAN VFD IN THIS LOCATION.

LIGHT FIXTURE SCHEDULE

3000 lm

COLOR

4000 K

LAMP OUTPUT TEMPERATURE MANUFACTURER MODEL

LITHONIA

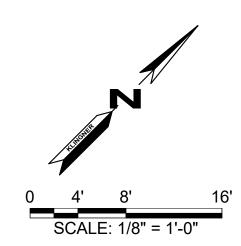
BASIS OF DESIGN

	BRANCH PANEL: SP	9-2A											
LOCATION: PENTHOUSE SUPPLY FROM: SP9-2 MOUNTING: SURFACE					VOLTS: 120/208					A.I.C. RATING : 10,000			
					PHASES: 3 WIRES: 4				PANEL TYPE: MAIN LUG ONLY MAINS RATING: 60 A				
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES	A		В		С		POLES	TRIP	CIRCUIT DESCRIPTION	СКТ
1	RESTROOM EXHAUST FAN EF-1	20 A	1	900 VA	0 VA					1	20 A	UV LIGHTING	2
3	PRECOOLING PUMP CWP-3	25 A	1			1658 VA	0 VA			1	20 A	SPARE	4
5	PREHEATING PUMP HWP-1	20 A	1					1176 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
		PHAS	SE LOAD:	900	900 VA		1,658 VA		1,176 VA		L LOAD:	3,734 VA	
			SE AMPS: 8		A 14 A		Α	10 A		**TOTAL AMPS: 10 A		10 A	

S1 4' LED STRIPLIGHT

DESCRIPTION

KEYNOTE LEGEND



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



ANTHONY L. DIEWOLD - ENGINEER MO # - 2016000028

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auringineers

Burlington I A Hanghel

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CAD DWG FILE:
DRAWING BY: ALD
CHECKED BY: GCS
DESIGNED BY: ALD

SHEET TITLE:

ENLARGED PENTHOUSE ELECTRICAL PLAN

SHEET NUMBER:

E201

SHEET 23 of 23 MAY 30, 2024

1 ENLARGED PENTHOUSE ELECTRICAL PLAN 3/16" = 1'-0"