UNIVERSITY OF LOUISVILLE

PROCUREMENT SERVICES
ADDENDUM

Date of Notice:	6/5/2025
Solicitation No.:	IB-031-25
Title:	Frazier Pediatric (KSCIRC) Fit-Out
Addendum No.:	Three (3)

The following shall clarify and/or modify the original bid document(s) as issued by the University of Louisville.

1. A/E ADDENDUM

Attached hereto is Addendum 3, prepared by Schmidt Associates, Inc.

2. QUESTIONS AND ANSWERS

1. Please take a look at the attached screen shots from M501. We just noticed that the engineer wants (2) 144”x54” louvers in the 5th floor exterior wall. There’s no mention of these louvers on the architectural or structural drawings. If I had to guess I’d say that these need to be installed in the window glazing frames, but there’s no mention of that. We need the design team to let us know how these louvers are intended to be installed. Install detail added in addendum, #3 drawings.

2. Are we only responsible for raceway on low voltage systems, AV, CCTV, access controls, etc. as noted on the responsibility matrix? Key notes E3 on E304 and S3 on E404 note that we are to install the cabling, etc. E3 and S3 are in regards to the motion analysis cameras/system. The cabling will be provided by the vendor and needs to be installed back to the cabinet/video rack in room 412. Motion analysis is in rooms 412 & 417.

Bidder must acknowledge receipt of this and any addenda either with bid or by separate letter. Acknowledgement must be received in the Department of Procurement Services, Service Complex Building, University of Louisville no later than **06/17/2025 at 2:00PM, EST.** If by separate letter, the following information must be placed in the lower left-hand corner of the envelope:

Solicitation No.:	**IB-031-25**
Title:	Frazier Pediatric (KSCIRC) Fit-Out
Due Date:	**06/17/2025**

Authorized By:

Procurement Services	Jamie D. Peck Jamie D. Peck Digitally signed by Jamie D. Peck Date: 2025.06.05 13:27:18 -04'00'

Receipt Acknowledged:

Company	
Signature	
Name (print)	
Date	

ADDENDUM NO. 3
JUNE 5, 2025

PREPARED BY SCHMIDT ASSOCIATES FOR:
UOFL KSCIRC PEDIATRIC SPINE REHAB
UOFL HEALTH

This Addendum consists of 1 Addendum page and 5 attachment pages totaling 6 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL (NOT APPLICABLE)

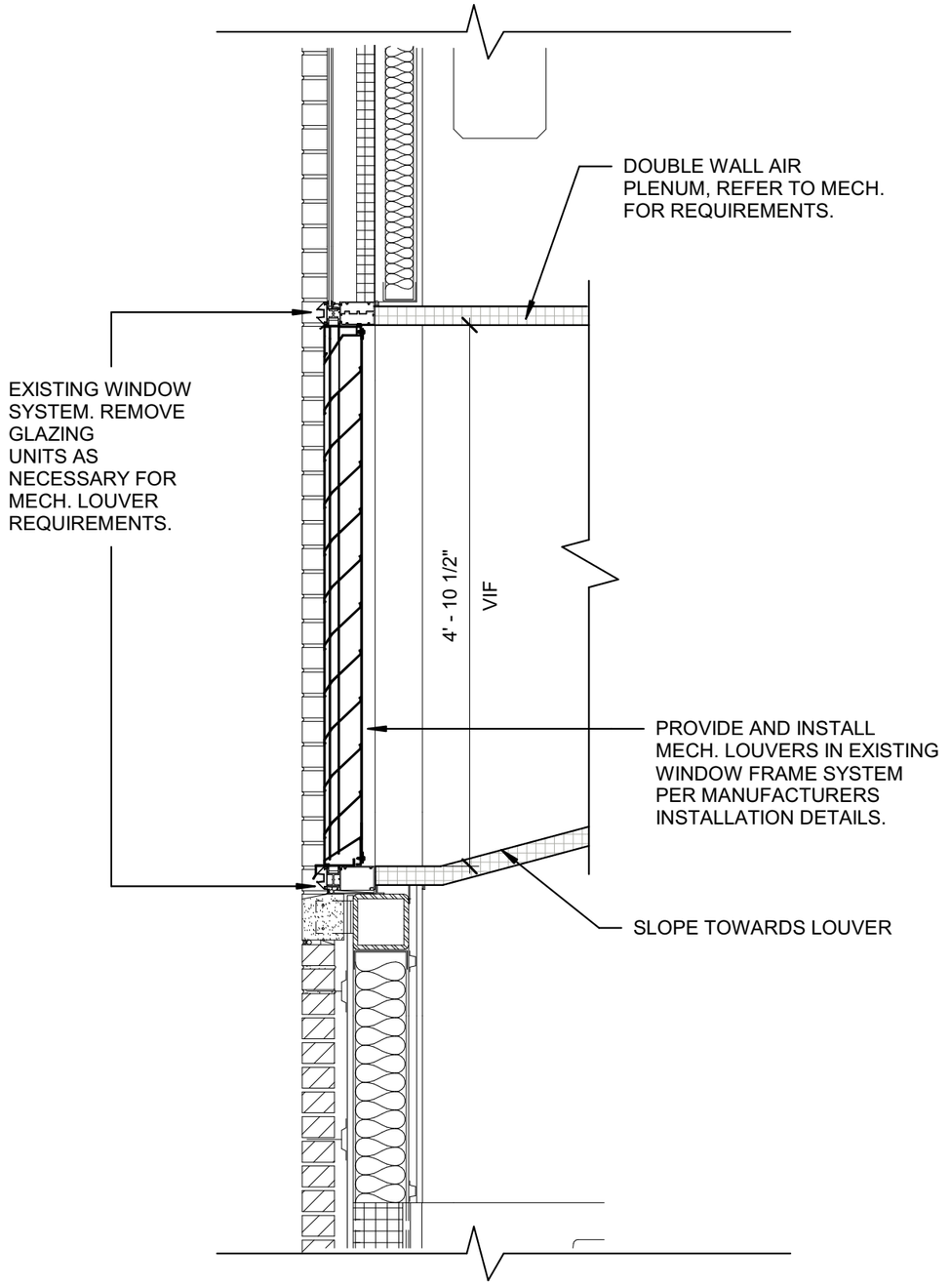
PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: ADD (A), DELETE (D), DELETE & REPLACE (R),
A-SERIES DRAWINGS	
ASi-01	ADD
M-SERIES DRAWINGS	
M001	DELETE AND REPLACE
M800	DELETE AND REPLACE
P-SERIES DRAWINGS	
MG104S	DELETE AND REPLACE
E-SERIES DRAWINGS	
E305	DELETE AND REPLACE

END OF ADDENDUM 3



1 Louver Detail
3/4" = 1'-0"

SCHMIDT
ASSOCIATES
schmidt-arch.com • 317.263.6226
415 Massachusetts Ave., Indianapolis, IN 46204
730 Brent St. #203, Louisville, KY 40204

Project No. 2024-022.PSR
Project Date 06/03/2025
Produced AH

BID SET

KENTUCKY SPINAL CORD INJURY RESEARCH CENTER

PEDIATRIC FITOUT

Louver Detail

ASI-01

CMTA
A LEGENCE Company
10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com
CMTA PROJECT # VUFP24

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET **OR** FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA **OR** NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN **OR** NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET **OR** FOOT
SQ IN	SQUARE INCH **OR** INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FEQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS

#	TAGGED NOTE DESIGNATOR
X	REVISION TRIANGLE
ROOM NAME RM #	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
TAG XXX AIRFLOW #,###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##x##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
TA	TRANSFER AIR DUCT
CAE	COMBUSTION AIR EXHAUST DUCT
CAI	COMBUSTION AIR INTAKE DUCT
SA	SA AIR DUCT TURNING UP
SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
D(XXX)	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
T	THERMOSTAT
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR
TC	TEMPERATURE & CARBON DIOXIDE SENSOR
VERT. HORIZ.	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	MOTORIZED DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER
VERT. HORIZ.	COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
BFW	BOILER FEEDWATER
CAI/E	COMBUSTION AIR INTAKE/EXHAUST
CBS/R	CHILLED BEAM SUPPLY/RETURN
CD	CONDENSATE DRAIN
CHWS/R	CHILLED WATER SUPPLY/RETURN
CST	CLEAN STEAM PIPING
CWS/R	CONDENSER WATER SUPPLY/RETURN
DTS/R	DUAL TEMP. WATER SUPPLY/RETURN
GS/R	GEOTHERMAL WATER SUPPLY/RETURN
HPC	HIGH PRESSURE STEAM CONDENSATE
HPS(#)	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
HPS/R	HEAT PUMP WATER SUPPLY/RETURN
HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
HWS/R	HEATING WATER SUPPLY/RETURN
LPC	LOW PRESSURE STEAM CONDENSATE
LPS(#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
MPC	MEDIUM PRESSURE STEAM RETURN
MPS(#)	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
SPD	STEAM CONDENSATE PUMPED DISCHARGE
SVT	STEAM VENT PIPING
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
E(XXX)	EXISTING PIPING - (XXX) DENOTES SYSTEM
A(XXX)	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

1

CEILNG ACCESS SCHEDULE

CEILING	LADDER	FOOT LEVEL ON LADDER	FOOT TO TORSO HEIGHT	VALVE HEIGHT ALLOWED
8'-0"	7'-0"	6'-0"	8'-0"	11'-0"
9'-0"	8'-0"	7'-0"	9'-0"	12'-0"
10'-0"	8'-0"	7'-0"	11'-0"	13'-0"
12'-0"	10'-0"	9'-0"	12'-0"	15'-0"
14'-0"	12'-0"	11'-0"	14'-0"	17'-0"

SCHMIDT
ASSOCIATES
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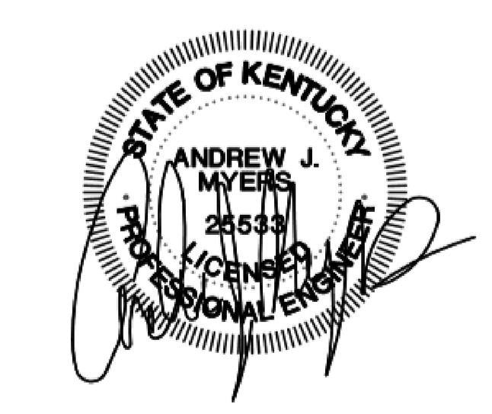
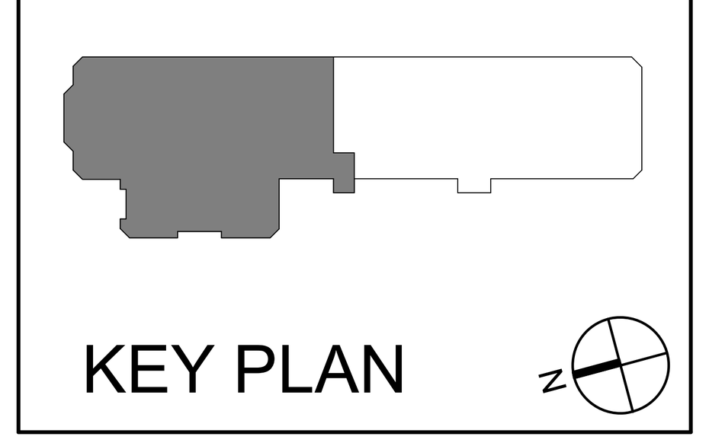
Project No. 2024-022.PSR
Project Date 05/02/25
Produced AJM LAM

BID SET



#	Revision	Date
	ADDENDUM 3	6-04-2025

220 Abraham Flexner Way
Louisville, KY 40202



KEY PLAN

FRAZIER BUILDING - UNIVERSITY OF LOUISVILLE HEALTH SCIENCE CAMPUS

PEDIATRIC FITOUT

MECHANICAL LEGEND AND GENERAL NOTES

M001

CMTA
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CMTA PROJECT # VUFP24

AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL #	UNIT CONFIGURATION	SERVICE	LOCATION	PHYSICAL DATA: WIDTH (IN.)	PHYSICAL DATA: LENGTH (IN.)	PHYSICAL DATA: HEIGHT (IN.)	PHYSICAL DATA: WEIGHT (LBS)
AHU-1	DAIKIN	CAH033GDGM	INLINE HORIZONTAL	4TH FLOOR KSCIRC	5TH FLOOR	70	360	90	8000.00 lbf

MARK	SUPPLY FAN: TOTAL SA CFM	MIN. OA CFM	FAN MOTOR TYPE	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	VOLT.	PH.	FLA	VFD
AHU-1	16000	3000	CENTRIFUGAL PLENUM	1	1160	2.50	5.34	25	25	460 V	3	27 A	Yes

MARK	RETURN FAN: TOTAL RA CFM	FAN MOTOR TYPE	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	VOLT.	PH.	FLA	VFD	REMARKS
AHU-1	12800	CENTRIFUGAL PLENUM	1	1750	1.50	1.65	10	8	460 V	3	13 A	Yes	ALL

AIR HANDLING UNIT SCHEDULE - HUMIDIFIER SECTION

MARK	STEAM PRESSURE	EAT (DB/WB)	LBS/HR	MAX VELOCITY FPM	FACE AREA (SF)
AHU-1	10 PSIG	56.6°F / 43.9°F	150	518 FT/MIN	30.88

AIR HANDLING UNIT SCHEDULE - CHILLED WATER COIL

MARK	COOLING CAPACITY (MBH)	COOLING CAPACITY SENSIBLE (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	MAX. FACE VELOCITY (FPM)	MAX. AIR PRESSURE DROP (IN. WG)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	MAX. WATER PRESSURE DROP (FT)	MAX. COIL ROWS	NO. OF COILS	MAX. FIN SPACING (FINS/IN)
AHU-1	567.2	426.5	77	64	52	52	518	1.22	45	55	110	16.10	6	2	10

AIR HANDLING UNIT SCHEDULE - SOUND POWER

MARK	UNIT INLET OCTAVE BAND FREQUENCY SOUND POWER LEVELS: 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
AHU-1	80	75	84	77	77	77	75	65

MARK	UNIT OUTLET OCTAVE BAND FREQUENCY SOUND POWER LEVELS: 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
AHU-1	81	76	84	80	80	75	63	51

MARK	UNIT RADIATED OCTAVE BAND FREQUENCY SOUND POWER LEVELS: 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
AHU-1	80	75	77	71	72	66	51	51

AIR HANDLING UNIT SCHEDULE - HOT WATER COIL

MARK	TOTAL HEATING CAP (MBH)	EAT (°F)	LAT (°F)	MAX. FACE VELOCITY (FPM)	MAX. AIR PRESSURE DROP (IN WG)	MAX. WATER PRESSURE DROP (FT/HD)	EWT (°F)	LWT (°F)	WATER FLOW RATE (GPM)	MAX COIL ROWS	NO OF COILS	MAX. FIN SPACING (FINS/IN)
AHU-1	620.6 Btu/h	55 °F	91 °F	547 FPM	277.08 in-wg	3.10 FT/HD	160 °F	140 °F	61 GPM	2	2	7

AIR HANDLING UNIT SCHEDULE - FILTERS

MARK	FINAL FILTER: FILTER EFFICIENCY	NO. OF FILTERS	WIDTH (IN)	HEIGHT (IN)	NO. OF FILTERS	WIDTH (IN)	HEIGHT (IN)	FACE VELOCITY (FPM)	PRESSURE DROP (CLEAN) ("WC)	PRESSURE DROP (DIRTY) ("WC)	REMARKS
AHU-1	MERV 15	3	20	24	9	20	20	486 FPM	0.30 in-wg	2.00 in-wg	ALL

MARK	PREFILTER: FILTER EFFICIENCY	NO. OF FILTERS	WIDTH (IN)	HEIGHT (IN)	NO. OF FILTERS	WIDTH (IN)	HEIGHT (IN)	FACE VELOCITY (FPM)	PRESSURE DROP (CLEAN) ("WC)	PRESSURE DROP (DIRTY) ("WC)	REMARKS
AHU-1	MERV 8	3	20	24	6	24	24	497 FPM	0.10 in-wg	0.50 in-wg	ALL

REMARKS:
1. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS AND THE FORMS INCLUDED IN SPECIFICATIONS. START-UP SHALL BE WITNESSED BY ENGINEER NO EXCEPTIONS.
2. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
3. SUPPLY STAINLESS STEEL IAQ CONDENSATE DRAIN PAN. ENTIRE DRAIN SHALL BE PITCHED TO OUTLET. WATER CARRY OVER IS NOT ALLOWED. SELECT CHILLED WATER COILS ACCORDINGLY.
4. PROVIDE STAINLESS STEEL CHILLED WATER COIL CASING. WATER CARRY OVER IS NOT ALLOWED. SELECT CHILLED WATER COILS ACCORDINGLY.
5. REFER TO DRAWINGS FOR FULL UNIT CONFIGURATION.
6. REFER TO SPECIFICATIONS SECTION 230200 FOR REQUIRED FILTER QUANTITIES.
7. PROVIDE FACTORY MOUNTED AIR DAMPERS (RETURN AIR AND RELIEF AIR) IN THE AIR HANDLING UNIT WHEN INDICATED ON THE DRAWINGS. THE ACTUATOR SHALL BE MOUNTED BY CONTROLS CONTRACTOR. ECONOMIZER AND MINIMUM OUTDOOR AIR DAMPER TO BE DUCT MOUNTED.
8. THE TOTAL STATIC PRESSURE FOR THE FANS SHALL INCLUDED THE FOLLOWING: (A) THE LISTED ESP (B) DESIGN FILTER ALLOWANCE (C) PRESSURE DROPS THROUGH UNIT CONFIGURATION INCLUDING (COILS, AIR BLENDERS, DAMPERS, HUMIDIFIERS, ENERGY RECOVERY WHEELS, ETC.)
9. PROVIDE HIGH EFFICIENCY FAN MOTORS. PROVIDE INVERTER DUTY MOTORS FOR UNIT SPECIFIED WITH VARIABLE FREQUENCY DRIVES. PROVIDE SHAFT GROUNDING KITS.
10. UNIT DESIGN FAN HORSEPOWER, DIMENSIONS AND WEIGHTS ARE LISTED IN THE SCHEDULE. IT IS THE CONTRACTOR'S AND ALTERNATE MANUFACTURER'S RESPONSIBILITIES TO ENSURE THAT MOTOR HORSEPOWER, FIT AND ALL CLEARANCES ARE MAINTAINED SHOULD EQUIPMENT OTHER THAN THAT SPECIFIED BE FURNISHED.
11. COORDINATE SHIPPING SPLITS AS REQUIRED FOR INSTALLATION. THE CONTRACTOR SHALL FIELD DISASSEMBLED AND RE-ASSEMBLED AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS.
12. CHILLED WATER COILS SHALL HAVE A MINIMUM OF 8 ROWS AND FPI MAXIMUM. SCHEDULED COIL EWT/LWT IS BASED ON A 14°F DELTA FOR WORSE CASE WATER FLOW CONDITION. COIL SHALL ALSO BE CAPABLE OF 16°F DELTA FOR NORMAL OPERATION.
13. VFD'S ARE TO BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR. COORDINATE ACCORDINGLY.
14. UNIT CONFIGURED WITH MULTIPLE DIRECT DRIVE FANS. SEE SCHEDULE FOR EXACT CONFIGURATION. IN THE EVENT OF ONE FAN FAILURE, THE UNIT SHALL BE CAPABLE OF THE REDUNDANT AIR FLOW NOTED ON THE SCHEDULE:EX-TOTAL UNIT AIR FLOW IS 16,000 CFM AND A FAN FAILS, REDUNDANCY NOTED AS 75%, THE SINGLE REMAINING (FAN(S) SHALL BE CAPABLE OF 7,500 CFM.
15. UNIT SHALL BE CONFIGURED WITH UV LIGHTS AT THE LEAVING AIR SIDE OF THE CHILLED WATER COIL. THE UV LIGHTS SHALL BE CONFIGURED ON A SLIDING RACK TO ALLOW FOR LAMP REPLACEMENT.
16. ACOUSTICS VALUES REPRESENT SOUND LEVELS AT 63, 125, 250, 500, 1000, 2000, 4000, 8000 Hz.
17. UNIT MANUFACTURER SHALL PROVIDE PIEZOMETER RINGS ON SUPPLY AND RETURN FANS WITH TRANSDUCER.

VARIABLE FREQUENCY DRIVE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	MOTOR HP	ELECTRICAL: VOLTS	ELECTRICAL: PH	FUSED DISCONNECT & NEMA 12 ENCLOSURE	BYPASS STARTER
SAF-1	ABB	ACH550	AHU-1	50	460 V	3	YES	NO
RAF-1	ABB	ACH550	AHU-1	10	460 V	3	YES	NO

REMARKS:
1. VFD TO BE CAPABLE OF BACKNET INTEGRATION.

VAV BOX SCHEDULE W REHEAT COILS

MARK	MANUFACTURER	MODEL #	BOX TYPE	DUCT CONNECTIONS: INLET SIZE	DUCT CONNECTIONS: OUTLET SIZE	VOLUME CONTROL DAMPER: TOTAL A.P.D @ MAX. CFM ("WG)	MAX. CFM	MIN. CFM	PRESSURE INDEPENDENT CONTROLS	LEAKAGE RATE @ 2.0"
VAV-06	PRICE	SDV06	VARIABLE VOLUME	6"Ø	10"x8"	0.35 in-wg	350	140	Yes	0.02
VAV-08	PRICE	SDV08	VARIABLE VOLUME	8"Ø	12"x12"	0.50 in-wg	700	280	Yes	0.02
VAV-10	PRICE	SDV10	VARIABLE VOLUME	10"Ø	14"x12"	0.50 in-wg	1050	420	Yes	0.02
VAV-12	PRICE	SDV12	VARIABLE VOLUME	12"Ø	16"x16"	0.50 in-wg	1450	580	Yes	0.02

MARK	HOT WATER COIL: EAT (°F DB)	LAT (°F DB)	EWT (°F)	LWT (°F)	GPM	WATER P.D. (FT / HD)	HEAT CAPACITY (MBH)	RUNOUT PIPE SIZE	REMARKS
VAV-06	55 °F	95 °F	160 °F	140 °F	1 GPM	0.6	6.0 Btu/h	3/4"	ALL
VAV-08	55 °F	95 °F	160 °F	140 °F	1 GPM	0.8	12.1 Btu/h	3/4"	ALL
VAV-10	55 °F	95 °F	160 °F	140 °F	2 GPM	1.2	18.2 Btu/h	3/4"	ALL
VAV-12	55 °F	95 °F	160 °F	140 °F	3 GPM	1.7	25.2 Btu/h	1"	ALL

REMARKS:
1. VAV BOX SHALL BE DOUBLE WALL CONSTRUCTION WITH A SOLID INTERIOR PANEL AND A BOTTOM ACCESS DOOR. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
2. PROVIDE BOX WITH AN INDEPENDENT CONTROLLER. BOX SHALL NOT BE OPERATED BY ANOTHER CONTROLER LOCATED ON ANOTHER BOX.
3. PROVIDE UNIT WITH FACTORY MOUNTED WIRED DIGITAL CONTROLLERS WITH LOCAL OVERRIDES.
4. COIL SHALL HAVE A MINIMUM OF TWO (2) ROWS.

REGISTERS, GRILLES, AND DIFFUSERS

MARK	MANUFACTURER	MODEL	TYPE	GRILLE SIZE	INLET DUCT SIZE	CFM	REMARKS
E-1	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	6" DIA.	0-100	1, 2, 3, 6
E-2	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	8" DIA.	101-225	1, 3, 4, 6
E-3	PRICE	10 SERIES	ALUMINUM CONSTRUCTION PERFORATED FACE	14"x10"	12"x8"	200	3, 5
R-1	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	6" DIA.	0-100	1, 2, 3, 6
R-1A	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	12"x12"	6" DIA.	0-100	1, 2, 3, 6
R-2	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	8" DIA.	101-225	1, 2, 3, 6
R-2A	PRICE	80 SERIES	ALUMININUM SIDEWALL GRILLE	12"x12"	8" DIA.	101-225	1, 2, 3, 6
R-3	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	10" DIA.	226-375	1, 2, 3, 6
R-4	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	12" DIA	376-600	1, 2, 3, 6
R-5	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	14" DIA.	601-1,000	1, 2, 3, 6
R-6	PRICE	80 SERIES	ALUMINUM 1/2" EGG CRATE	24"x24"	22"x22"	400-850	1, 2, 3, 6
S-1	PRICE	SMD	MODULAR LOUVERED FACE DIFFUSER	24"x24"	6" DIA.	0-100	1, 3, 4, 6
S-2	PRICE	SMD	MODULAR LOUVERED FACE DIFFUSER	24"x24"	8" DIA.	101-225	1, 3, 4, 6
S-2A	PRICE	SMD	MODULAR LOUVERED FACE DIFFUSER	12"x12"	8" DIA.	101-225	1, 3, 4, 6
S-3	PRICE	SMD	MODULAR LOUVERED FACE DIFFUSER	24"x24"	10" DIA.	226-375	1, 3, 4, 6
S-4	PRICE	20/30 SERIES	EXTRUDED ALUMINUM CONSTRUCTION SINGLE DEFLECTION CORE	14"x10"	12"x8"	200	3, 5

REMARKS:
1. CEILING T-BAR MOUNTED IN 24x24 ALUMINUM PANEL. GRD'S TAGGED WITH AN "A" ON PLANS SHALL BE CEILING SURFACE MOUNTED TYPE.
2. INLET TRANSITION BOX ROUND TO RECTANGULAR.
3. PROVIDE WHITE IN COLOR.
4. PROVIDE WITH MOLDED INSULATION BLANKET.
5. SIDE WALL OR DUCT MOUNTED.
6. PROVIDE WITH PLENUM BOX. REFER TO DETAIL.

LOUVER SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	SERVICE	DEPTH (IN)	CONSTRUCTION	CFM	WIDTH (IN)	HEIGHT (IN)	FREE AREA	VELOCITY (FPM)	APD (IN. WG.)	FINISH	COLOR	BIRD SCREEN	DRAINABLE BLADE	REMARKS
	GENERAL					CAPACITY						ACCESSORIES				
L-1	RUSKIN	ELF6375DXH	RELIEF LOUVER	6	EXTRUDED ALUMINUM 5-29/32" BLADE SPACING	16000	144	54	54 SF	505 FPM	0.05 in-wg	BAKED ENAMEL	BY ARCHITECT	Yes	Yes	ALL
L-2	RUSKIN	ELF6375DXH	OUTSIDE AIR LOUVER	6	EXTRUDED ALUMINUM 5-29/32" BLADE SPACING	16000	144	54	54 SF	505 FPM	0.05 in-wg	BAKED ENAMEL	BY ARCHITECT	Yes	Yes	ALL

REMARKS:
1. FREE AREA LISTED IS MINIMUM ACCEPTABLE. ALTERNATE LOUVER MANUFACTURERS SHALL MEET OR EXCEED AREA LISTED. NO EXCEPTIONS.
2. ALL LOUVERS SHALL BE FACTORY BAKED ENAMEL WITH CUSTOM PAINT COLOR AS SELECTED BY ARCHITECT.
3. ALL LOUVERS SHALL BE EXTRUDED ALUMINUM, CHANNEL FRAME WITH CONCEALED MULLIONS.
4. 60% FREE AREA.

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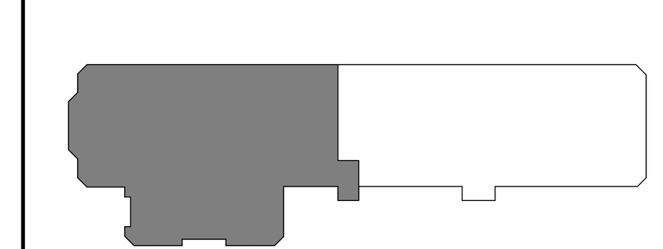
Project No. 2024-022.PSR
Project Date 05/02/25
Produced AJM LAM

BID SET

STATE OF KENTUCKY
ANDREW J. MYERS
25533
LICENSED PROFESSIONAL ENGINEER

#	Revision	Date
	ADDENDUM 3	6-04-2025

220 Abraham Flexner Way
Louisville, KY 40202



KEY PLAN

FRAZIER BUILDING - UNIVERSITY OF LOUISVILLE HEALTH SCIENCE CAMPUS

PEDIATRIC FITOUT

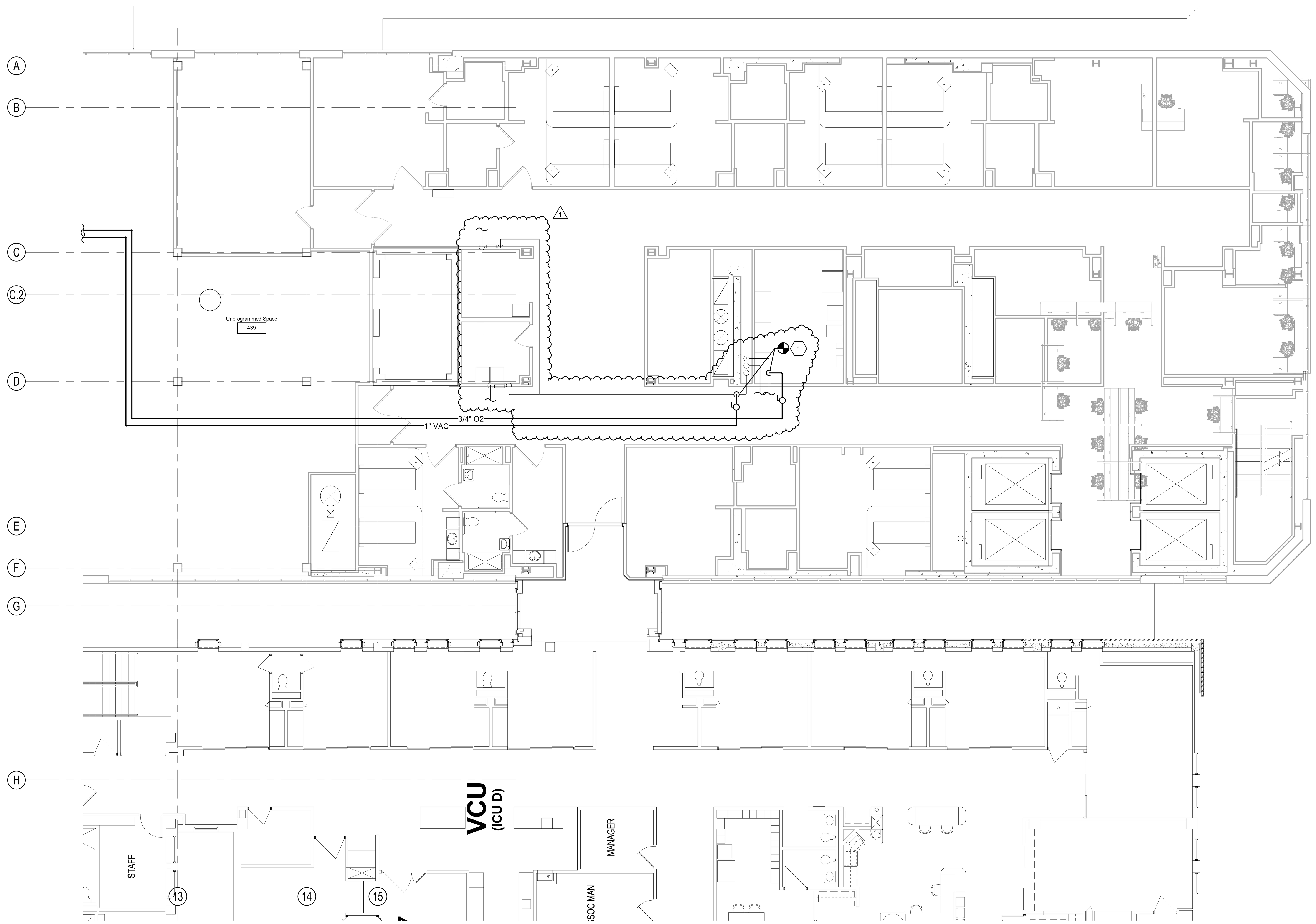
MECHANICAL SCHEDULES

M800

CMTA
A LEGENCE Company
10411 Meeting Street | Louisville, KY 40059 | 502.326.3085 | cmta.com
CMTA PROJECT # VUFP24

KEY NOTES

1	CONNECT NEW 1" VACUUM AND 3/4" O2 TO EXISTING RISERS AS INDICATED.



1 FOURTH FLOOR PLAN - MEDICAL GAS - SOUTH

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

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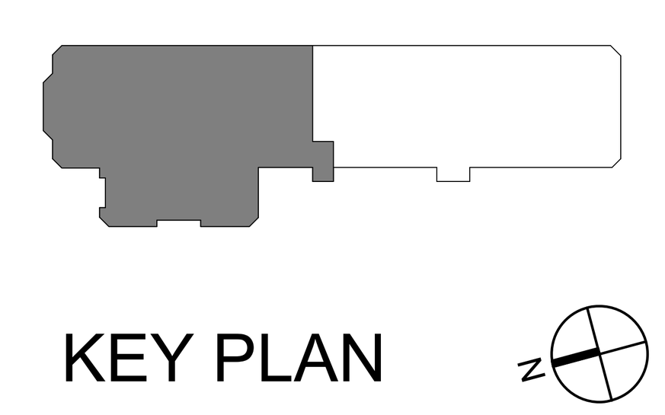


KEY PLAN

FRAZIER BUILDING - UNIVERSITY OF LOUISVILLE HEALTH SCIENCE CAMPUS

PEDIATRIC FITOUT

FOURTH FLOOR PLAN - MEDICAL GAS - SOUTH

MG104S

GENERAL NOTES (POWER):

A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

E. CONTRACTOR SHALL PROVIDE NEW TYPED PANELBOARD SCHEDULE. THE SCHEDULE SHALL NOTE ALL UNUSED BREAKERS AS "SPARE". ALL SPARE CIRCUIT BREAKERS WITHIN PANELBOARDS SHALL BE SWITCHED TO THE "OFF" POSITION AND LABELED WITH A PRINTED STICKER STATING "SPARE" AND BE PLACED ON THE BREAKER ITSELF.

KEYNOTES

E1 PROVIDE 600V 30A/3P FUSIBLE DISCONNECT SWITCH, FUSED AT EQUIPMENT NAMEPLATE RATING, WITHIN NEMA-1 ENCLOSURE.

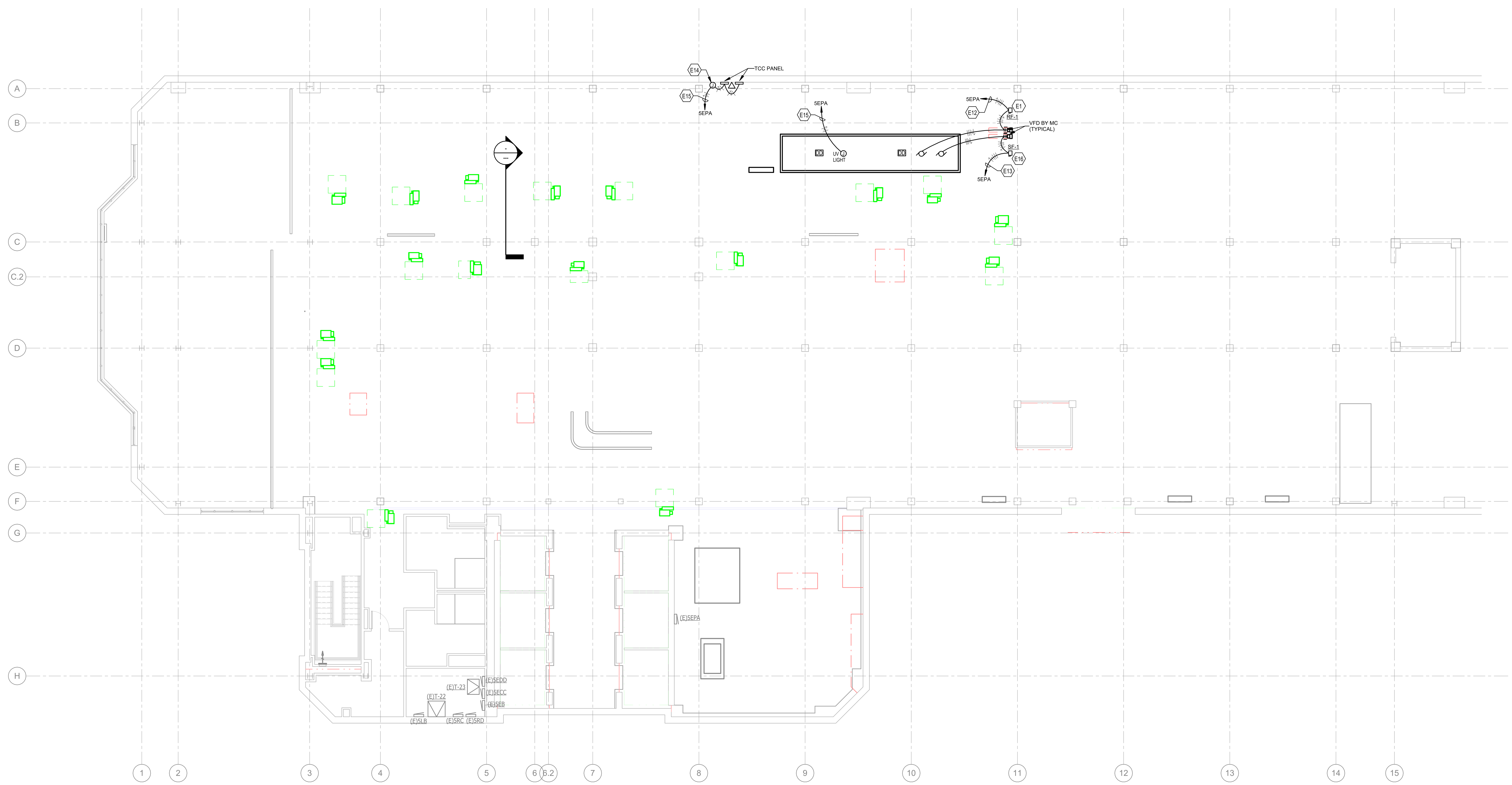
E12 ROUTE # OF #10 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT BACK TO EXISTING PANEL INDICATED. PROVIDE NEW 25A/3P BREAKER IN EXISTING PANEL.

2 E13 ROUTE # OF #4 CONDUCTORS AND #8 GROUND IN 1-1/4" CONDUIT BACK TO EXISTING PANEL INDICATED. PROVIDE NEW 70A/3P BREAKER IN EXISTING PANEL.

E14 PROVIDE 1.5KVA 277V TO 120V STEP DOWN TRANSFORMER FOR 120V TO TCC PANELS.

E15 ROUTE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT BACK TO 20A/1P BREAKER IN EXISTING PANEL INDICATED.

E16 PROVIDE 600V 60A/3P FUSIBLE DISCONNECT SWITCH FUSED AT EQUIPMENT NAMEPLATE RATING WITHIN NEMA-1 ENCLOSURE.



1 PARTIAL FIFTH FLOOR PLAN - POWER

1/8" = 1'-0"

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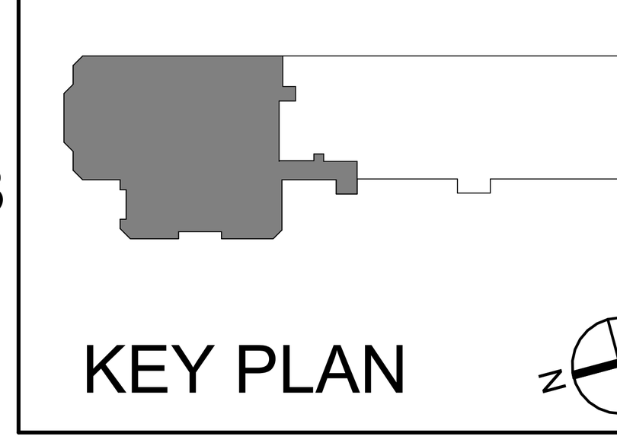

KEY PLAN

KENTUCKY SPINAL CORD INJURY RESEARCH CENTER

PEDIATRIC FITOUT

PARTIAL FIFTH FLOOR - POWER

E305