

# ELECTRICAL GENERAL NOTES

A. CONTACT VA IT PRIOR TO WORKING IN DATA CENTER OR IT CLOSET.

B. ALL RACKS ARE IN OPERATION ON UPS POWER. REMAINING WORK IS TO INSTALL EMERGENCY POWER ABOVE EACH RACK.

C. USE PRECAUTIONS TO AVOID SNAGGING, WIRING OR DAMAGING EQUIPMENT.

D. PROTECT IT EQUIPMENT FROM DUST DURING WORK THAT CREATES DUST.

E. SEE PANEL SCHEDULES ON DRAWING SERIES E600 FOR EMERGENCY POWER (EM) PANEL SCHEDULES AND EM CIRCUIT NUMBERS. CABLE LENGTHS ARE FOR INFORMATION ONLY.

CONTRACTOR TO DETERMINE CORRECT LENGTHS BASED ON FIELD CONDITIONS.

F. SEE DRAWING SERIES E700 FOR SINGLE LINE DRAWINGS.

G. EM POWER TO RACKS / CABINETS IN NEW TR's MUST BE PROVIDED TO THE TOP OF THE RACKS / CABINETS. NO POWER WIRING ON FLOORS!

H. RECEPTACLES ABOVE RACKS MUST BE NEMA L21-20R, LOCKING RECEPTACLES.

I. PANEL CIRCUIT NUMBERS ARE SUGGESTIONS, CONTRACTOR TO SELECT BREAKERS AND CIRCUIT NUMBERS BASED ON FIELD CONDITIONS AT TIME OF INSTALLATION.

#### **ELECTRICAL KEY NOTES**

1. EMERGENCY POWER TO RACK.

#### RATED WALL LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER 1 HR FIRE BARRIER (EXISTING)

2 HR FIRE BARRIER 2 HR FIRE BARRIER 2 HR FIRE BARRIER (EXISTING)

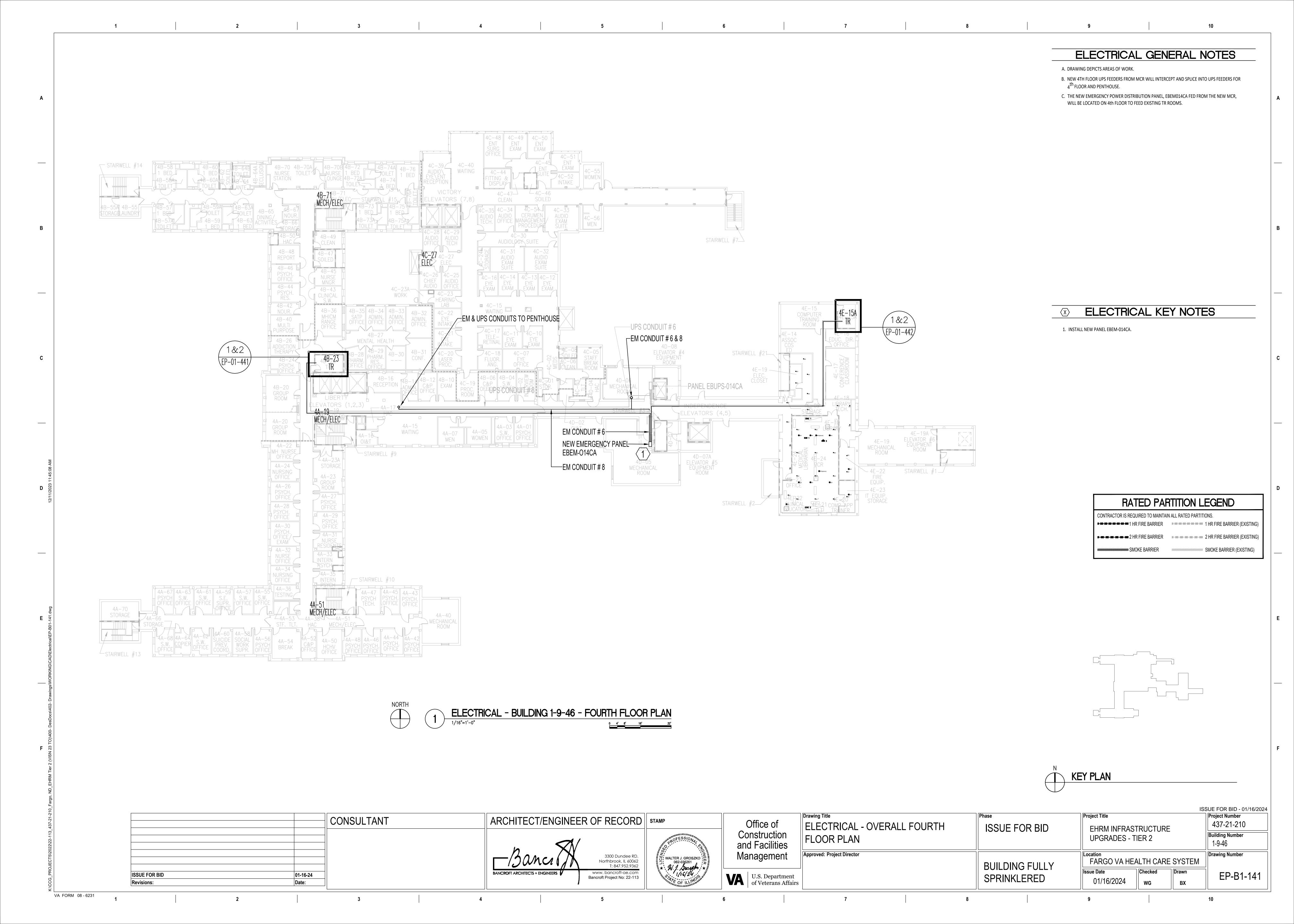
ROOM 3B-23

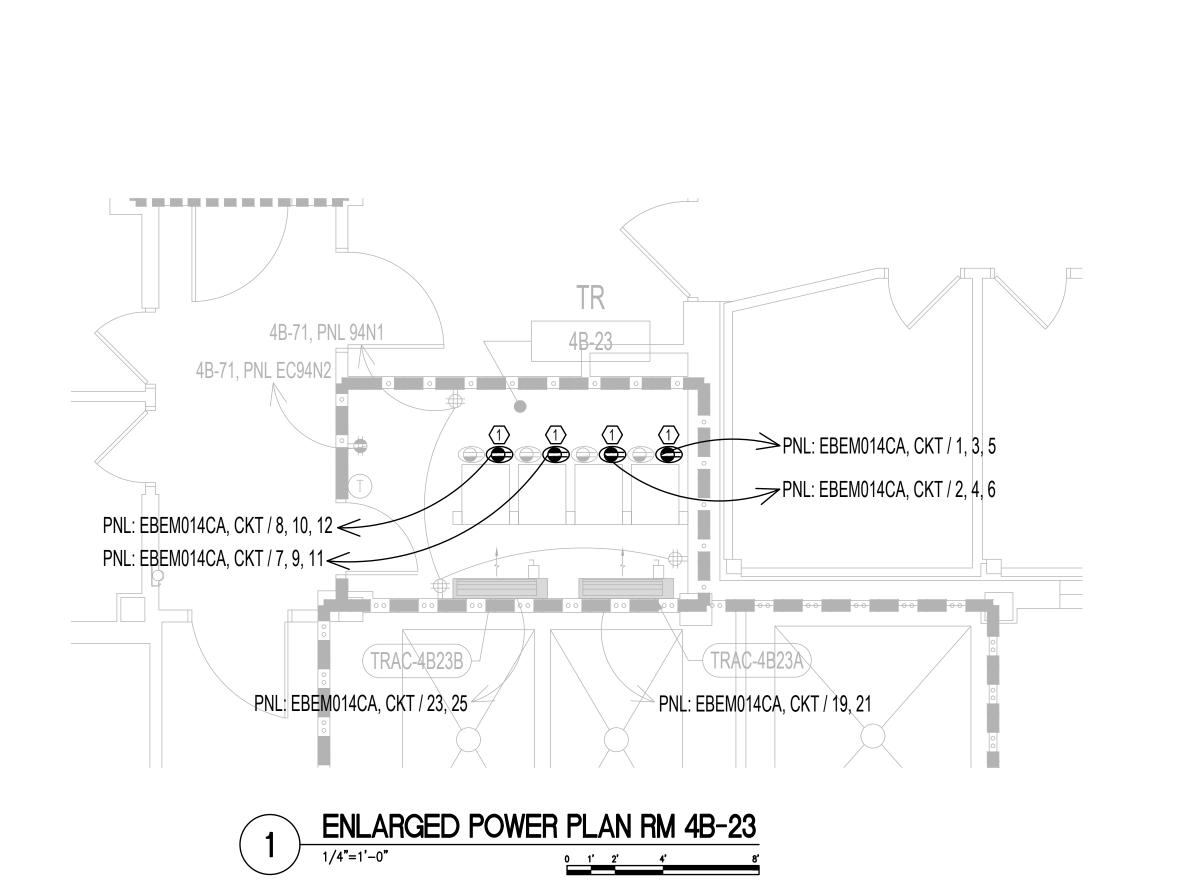
ROOM 3D-10

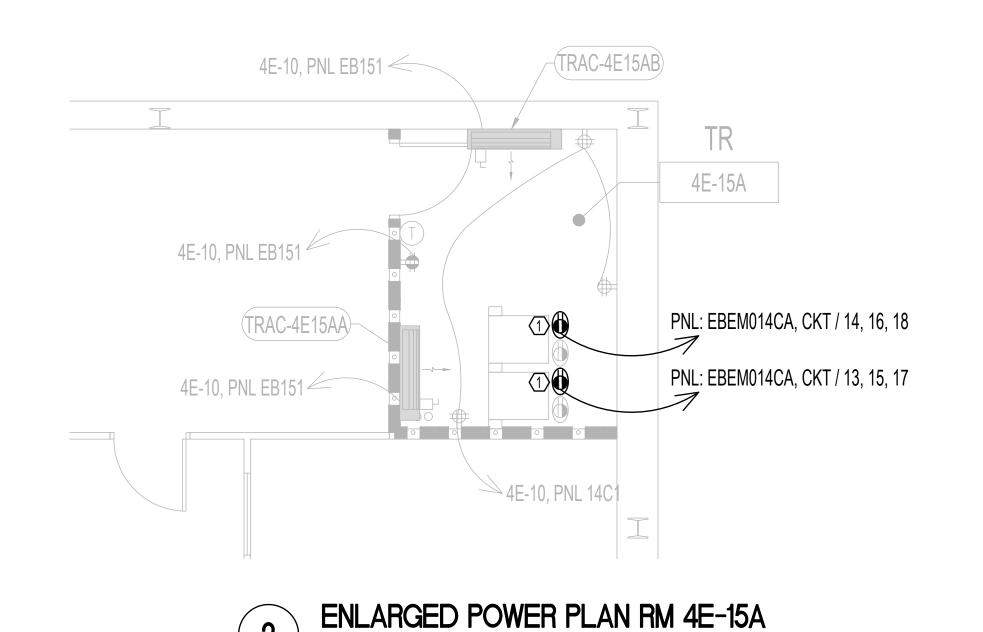
KEY PLAN

ARCHITECT/ENGINEER OF RECORD  SIMP  Office of Construction and Facilities Management  Approved: Project Director  Approved: Project Director	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	Building Number
		OF GIVIDEO TIERCE	01, 09, 46
1	BUILDING FULLY	Location FARGO VA HEALTH CARE SYSTEM	Drawing Number
ISSUE FOR BID  www. bancroft-de.com Bancroft Project No: 22-113  www. bancroft-de.com Bancroft Project No: 22-113	SPRINKLERED	Issue Date 01/16/2024 Checked WG BX	EP-B1-431

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CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

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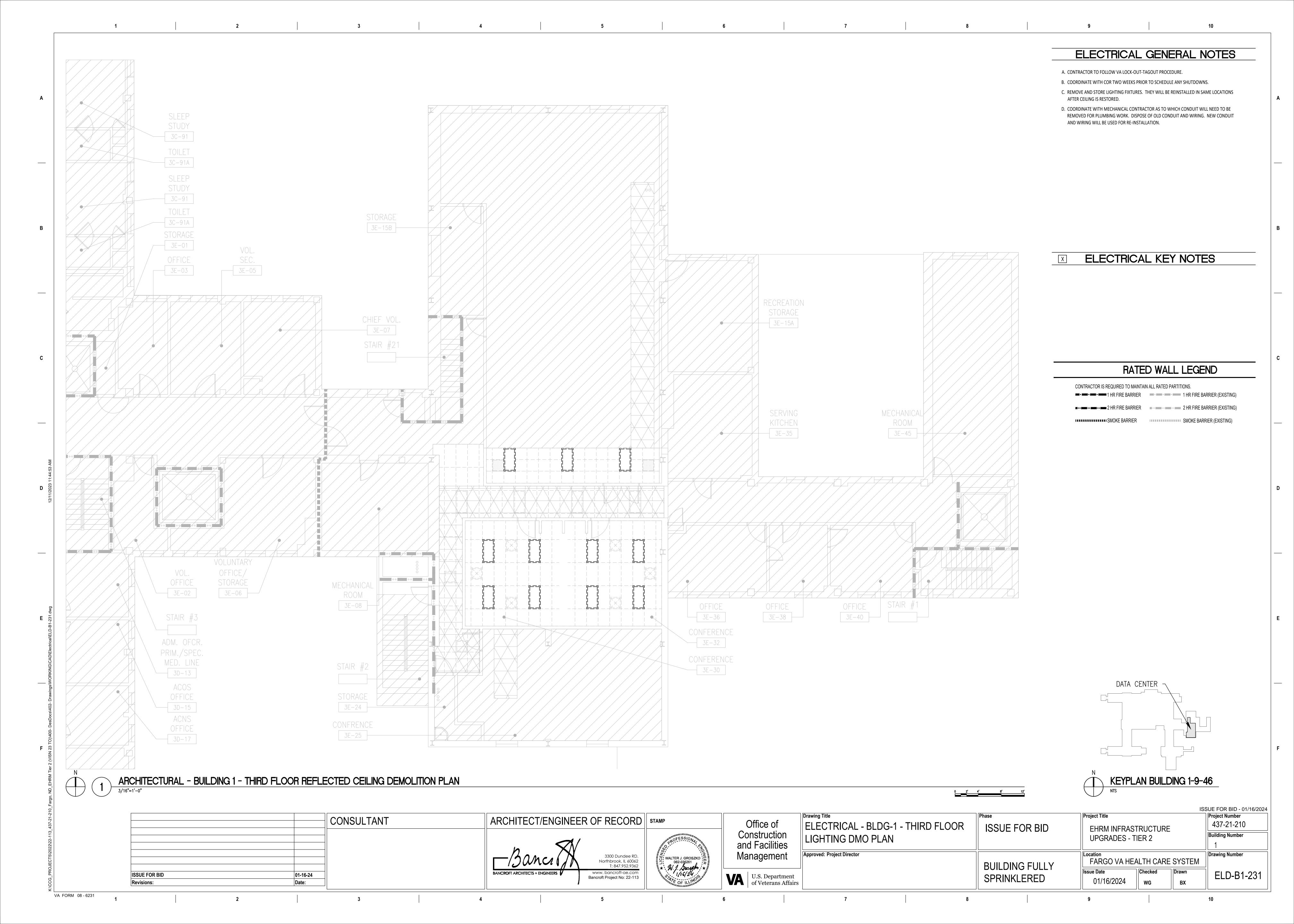
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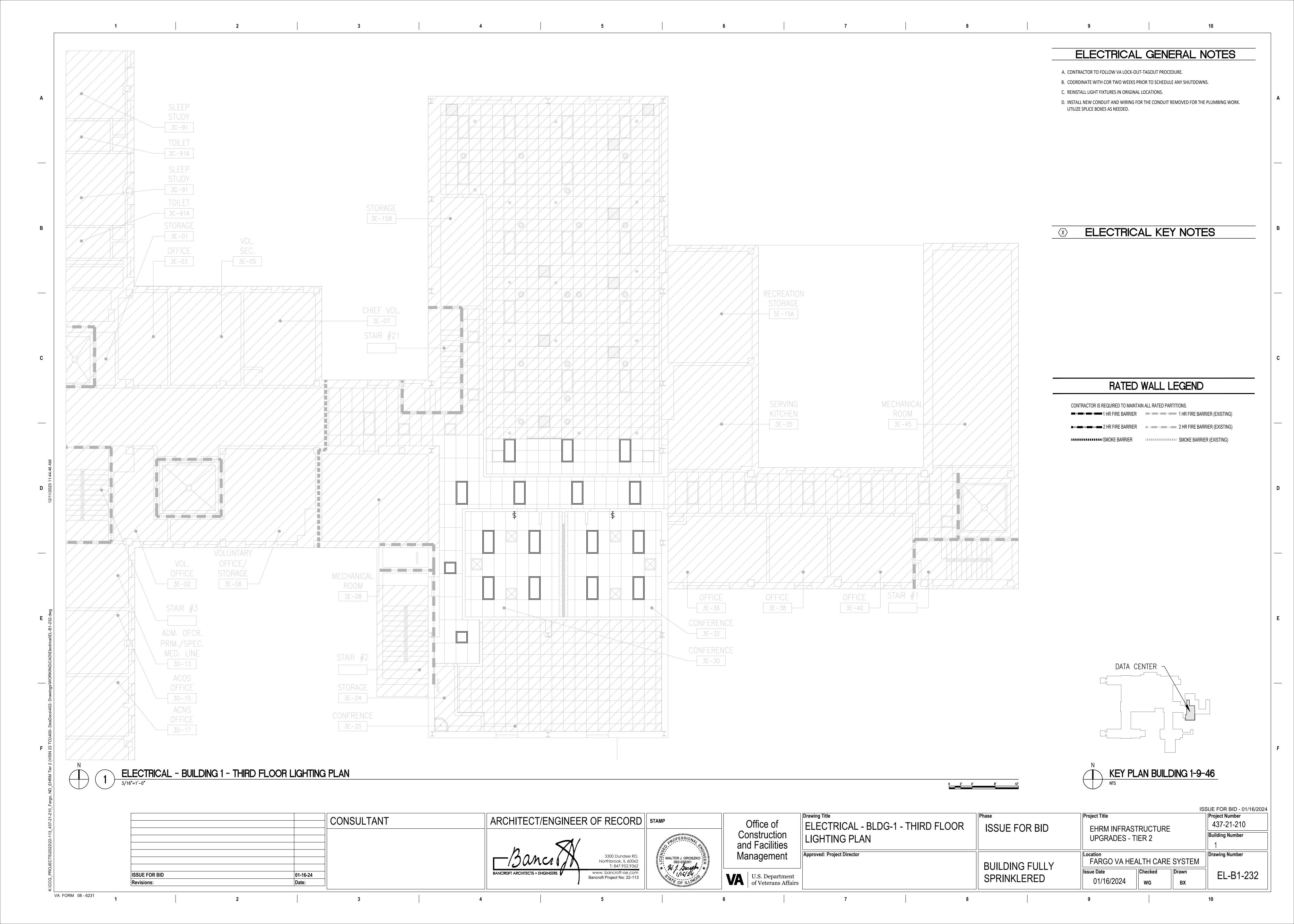
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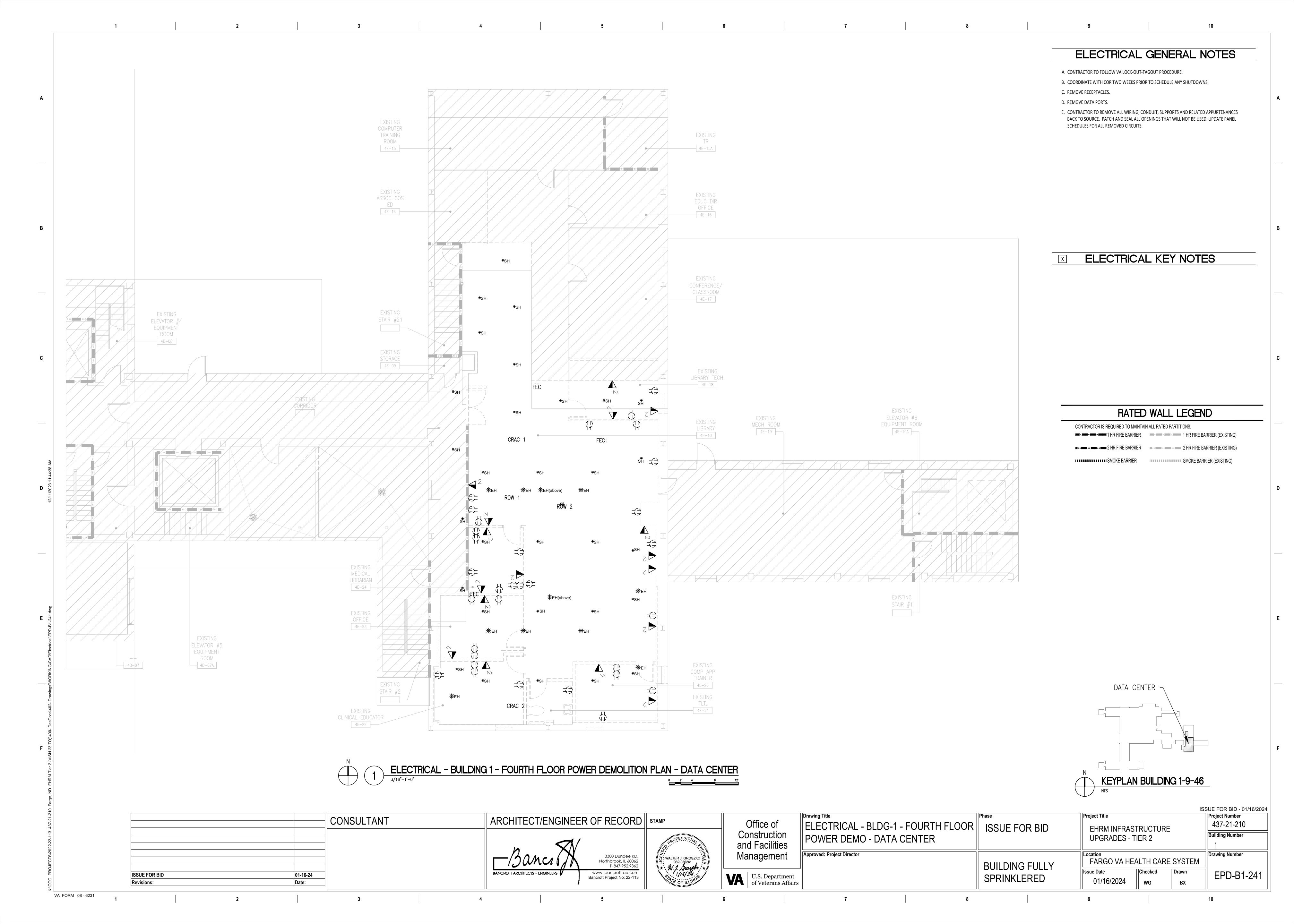
ROOM 4B-23
ROOM 4E-15A

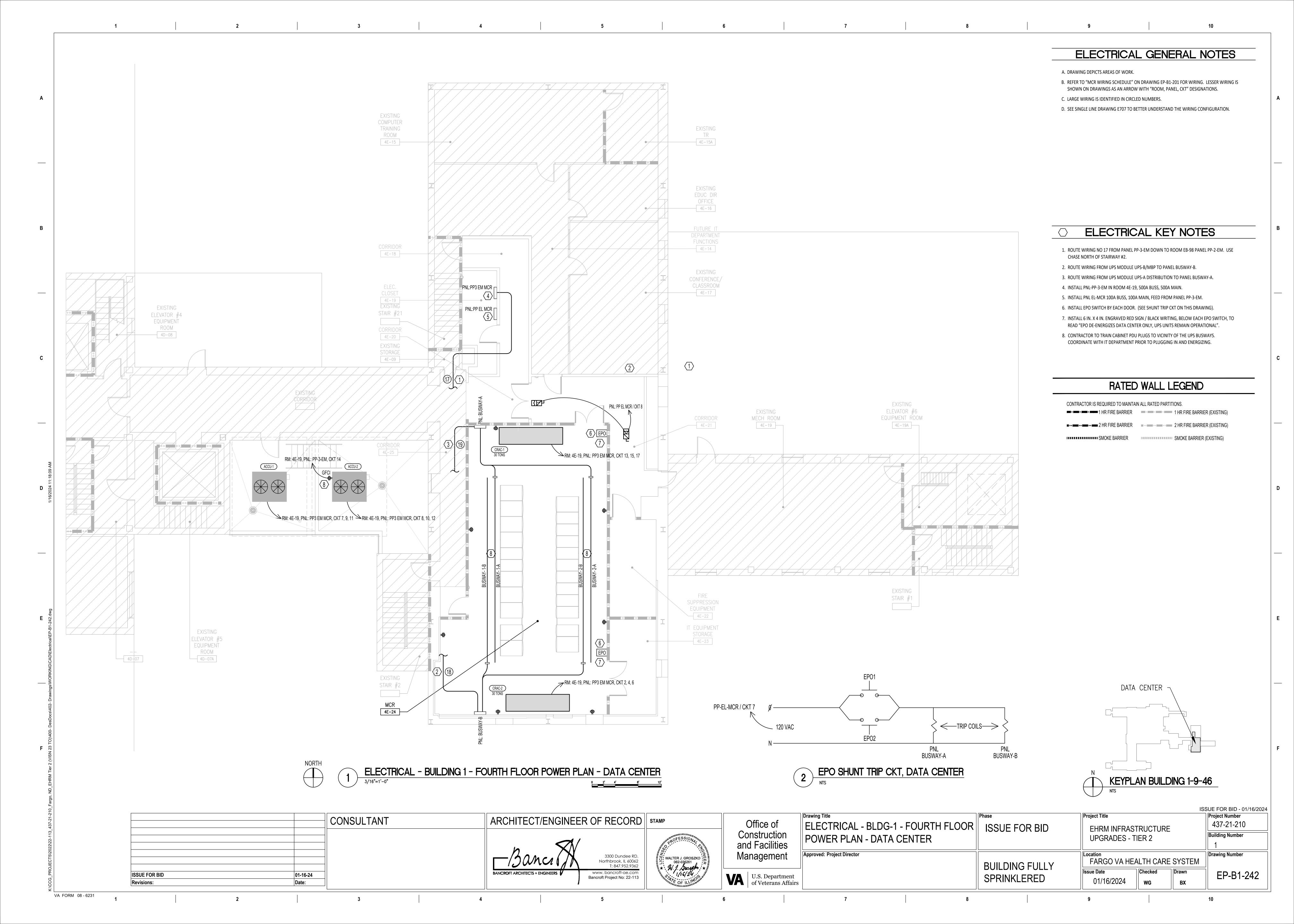
KEY PLAN	
Project Title	

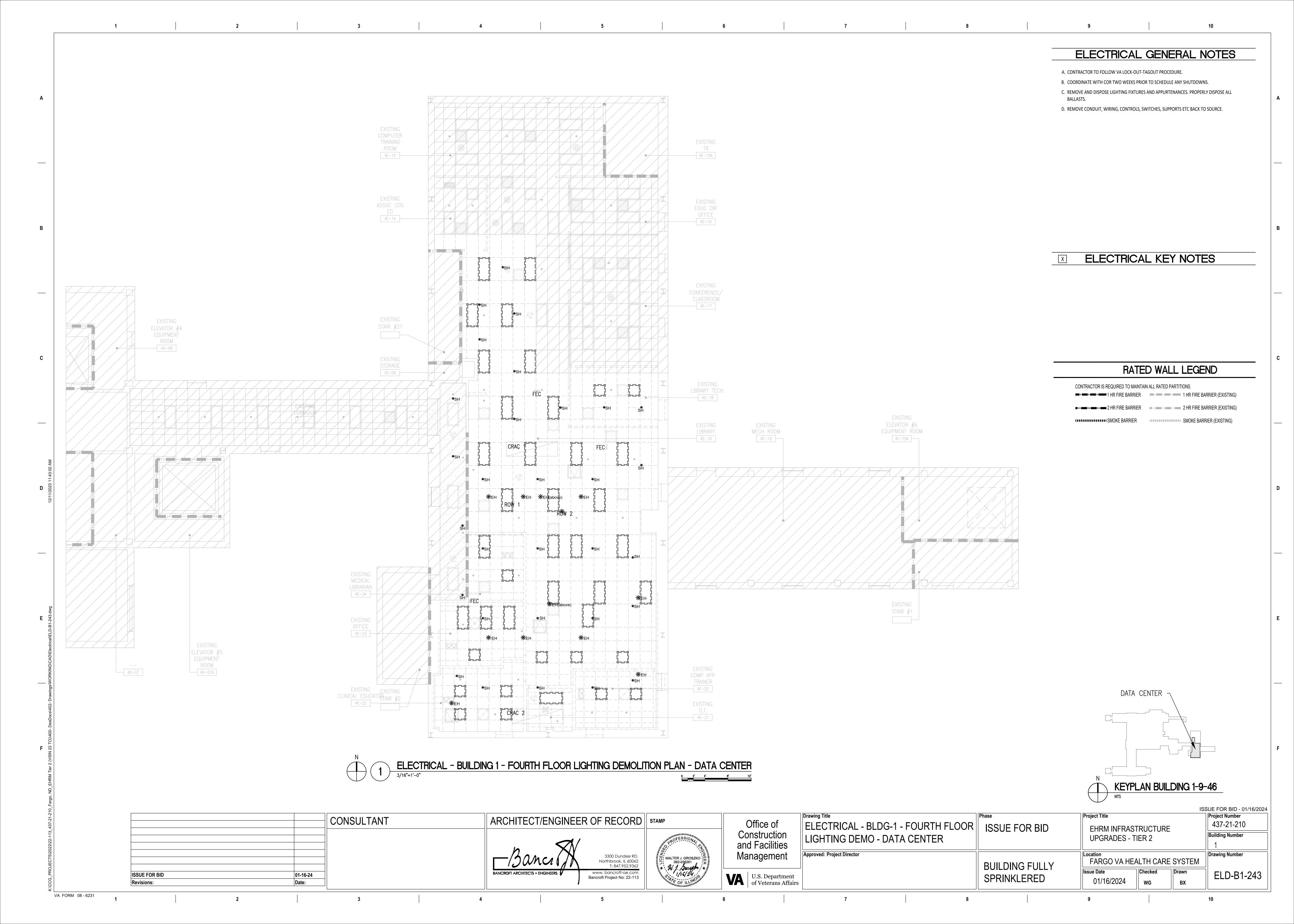
ISSUE FOR BID - 01/16/2024 Drawing Title
ELECTRICAL - BLDG-1-9-46 - ENLARGED Project Number CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of 437-21-210 ISSUE FOR BID EHRM INFRASTRUCTURE Construction and Facilities **Building Number** PLANS - FOURTH FLOOR **UPGRADES - TIER 2** 01, 09, 46 Approved: Project Director Drawing Number Management 3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 WALTER J. GROSZKO THE 1062-036261 THE 1/16/24 S FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** Checked www. bancroft-ae.com Bancroft Project No: 22-113 Drawn EP-B1-441 BANCROFT ARCHITECTS + ENGINEERS U.S. Department of Veterans Affairs **ISSUE FOR BID** 01-16-24 SPRINKLERED 01/16/2024 ВХ Revisions:

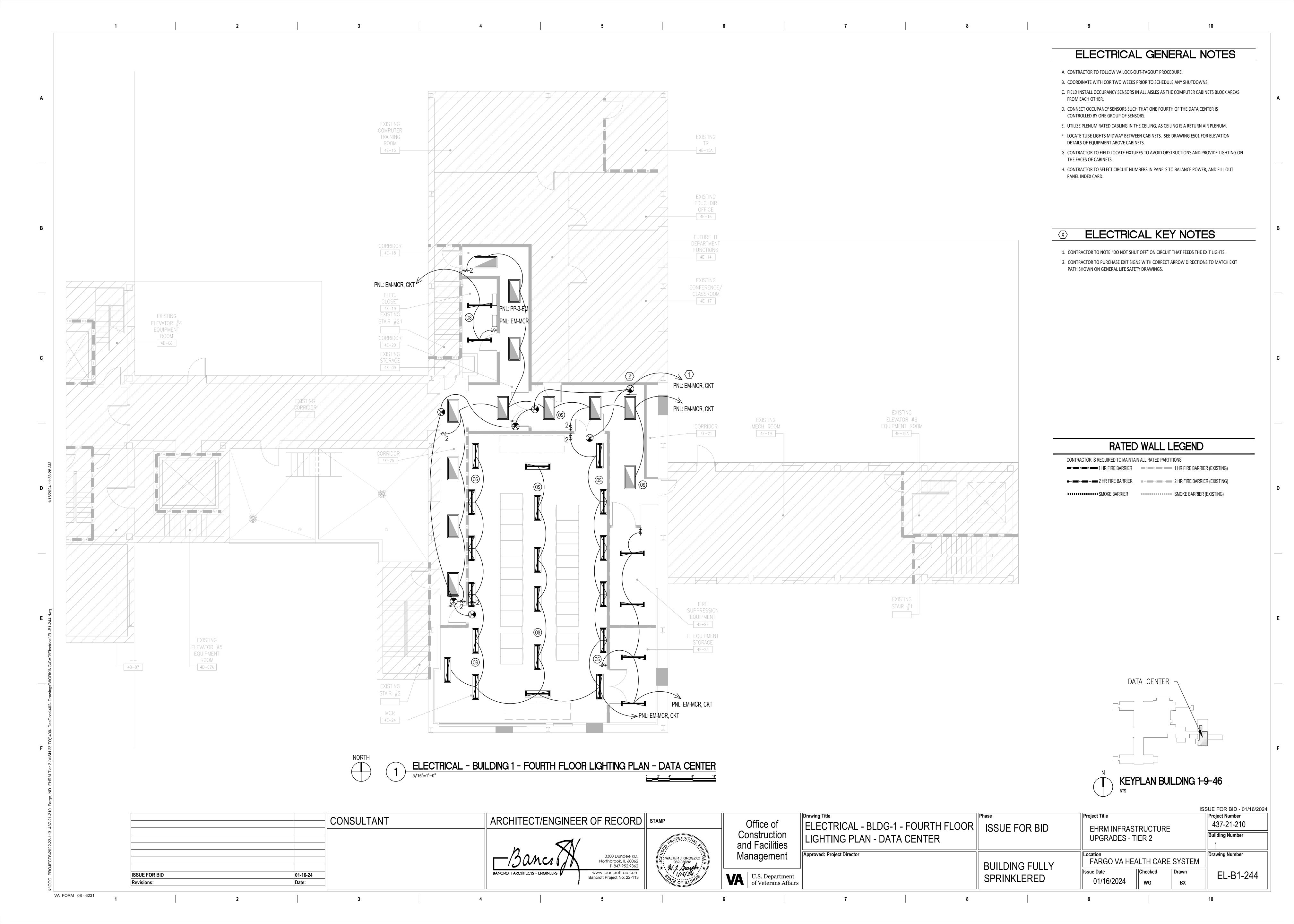


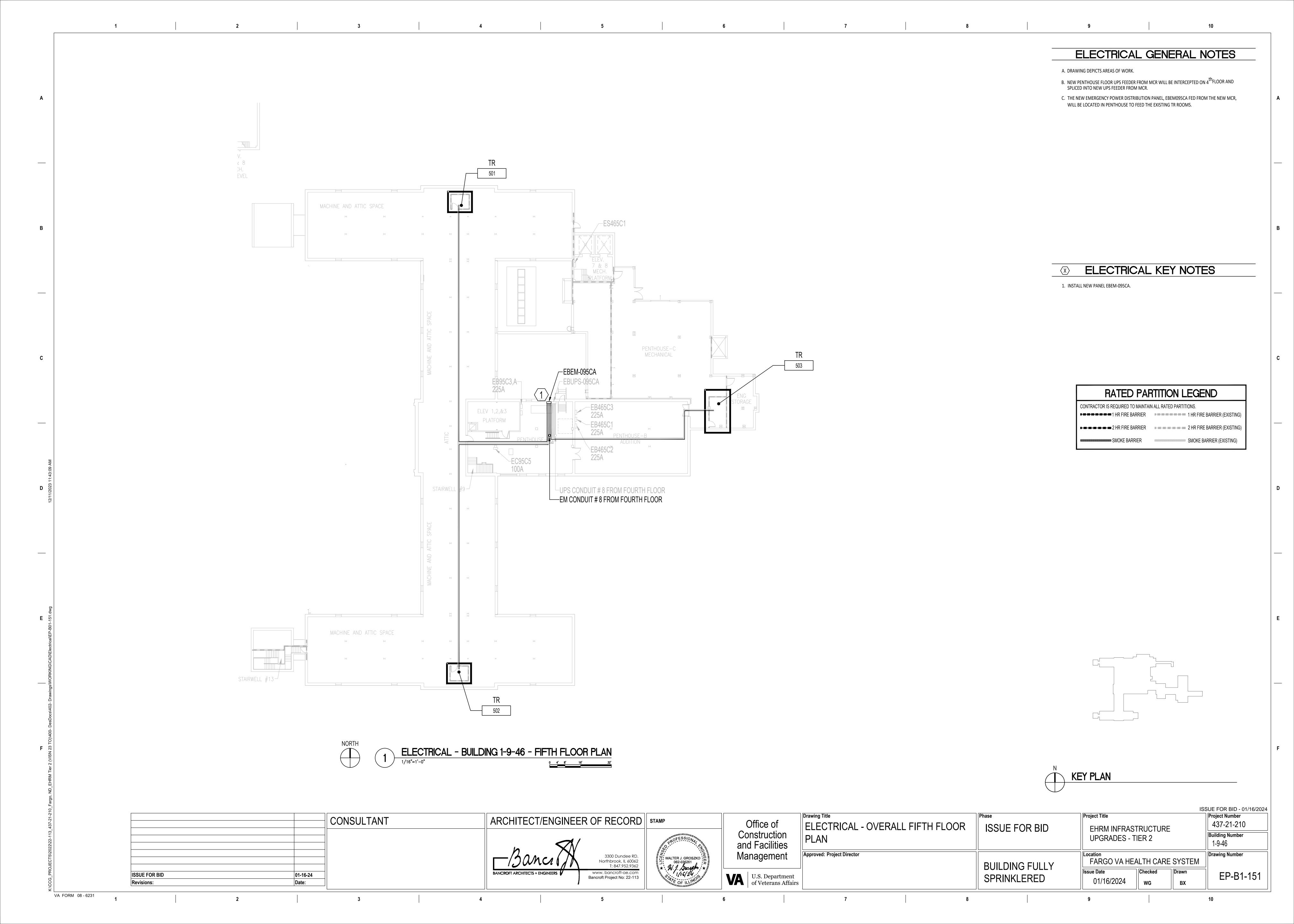


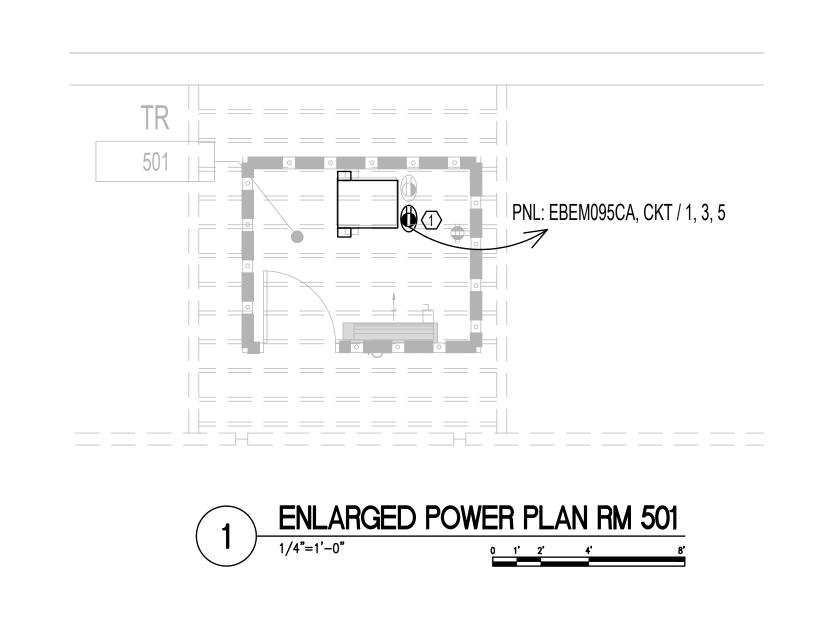


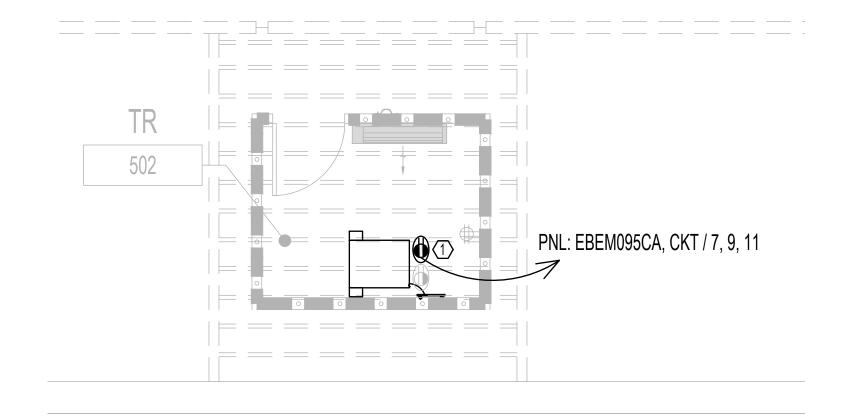




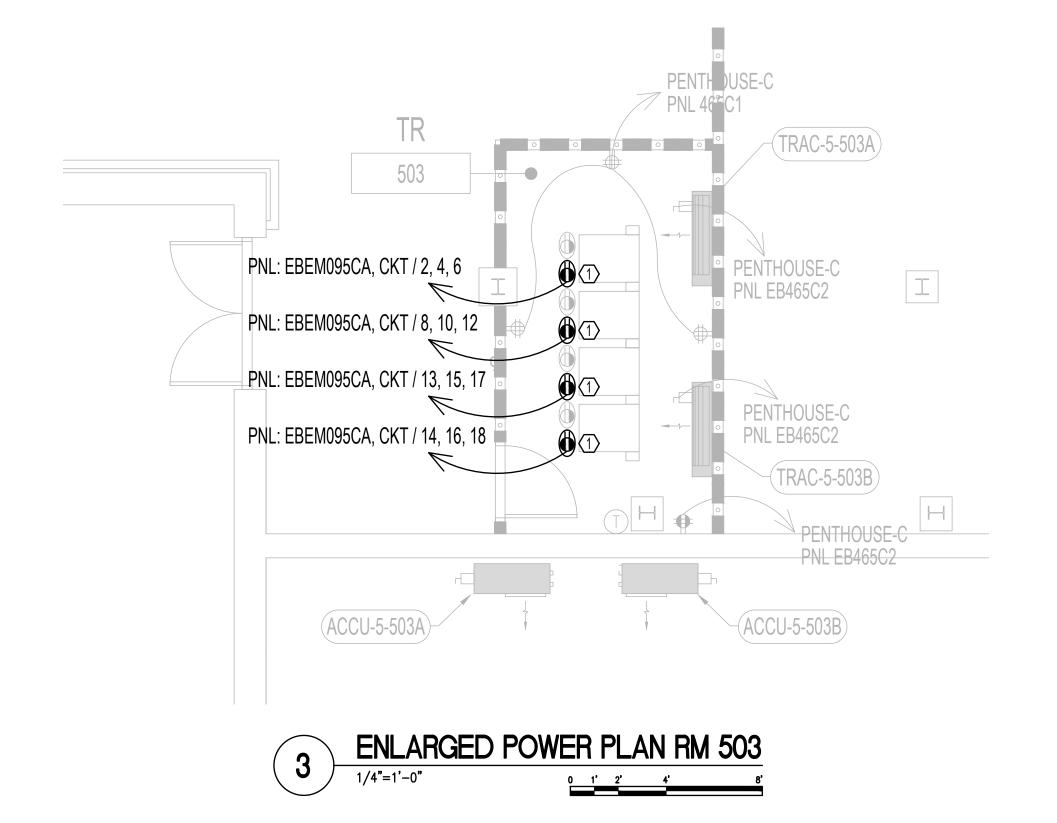












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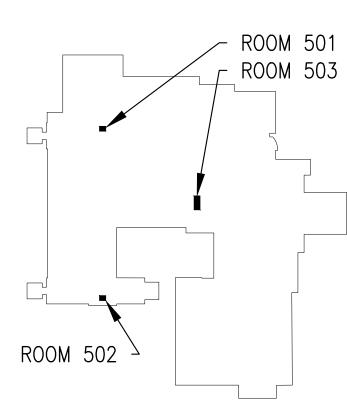
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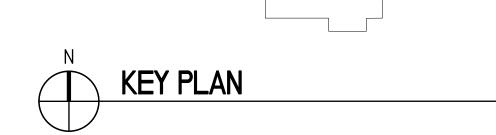
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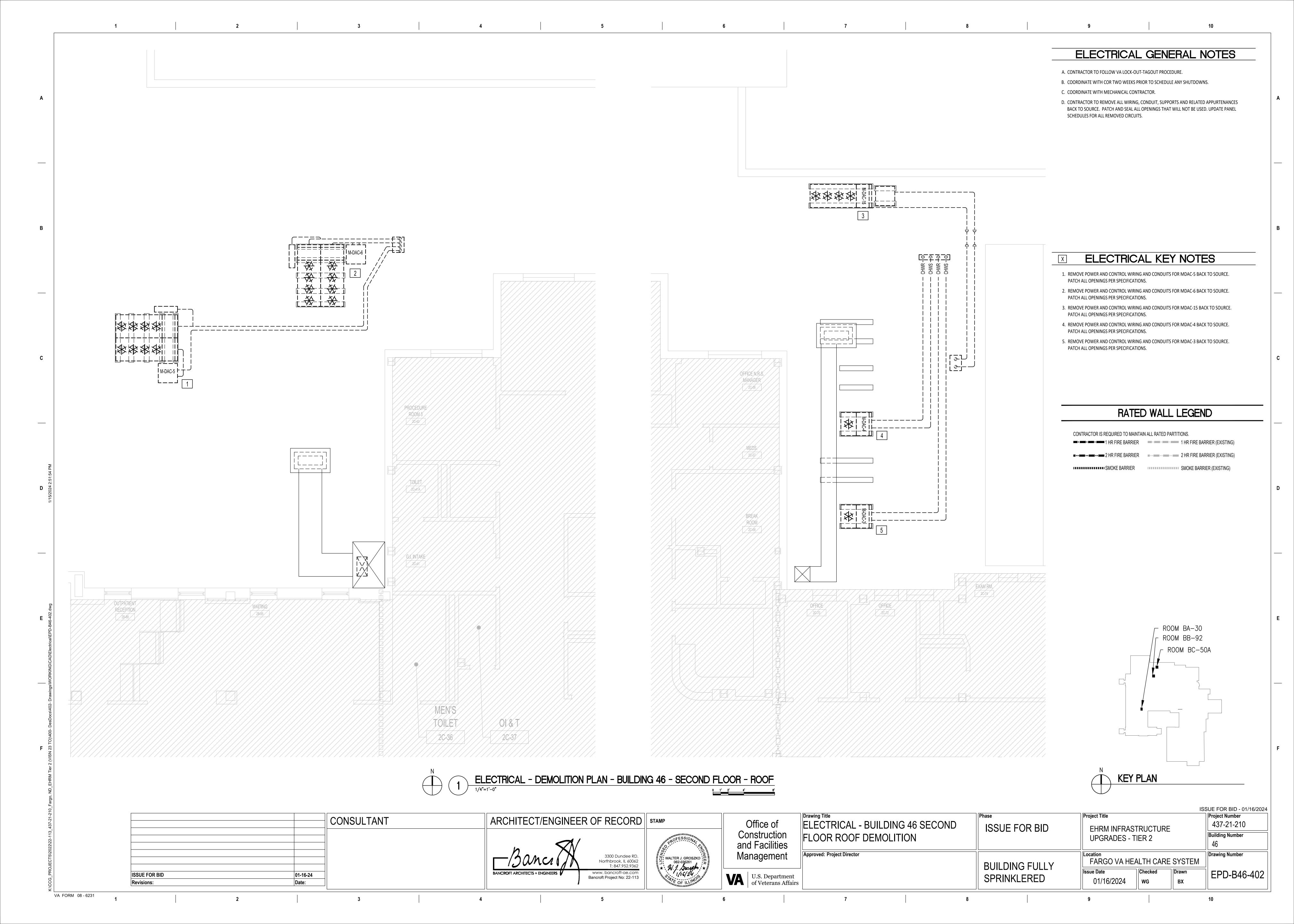
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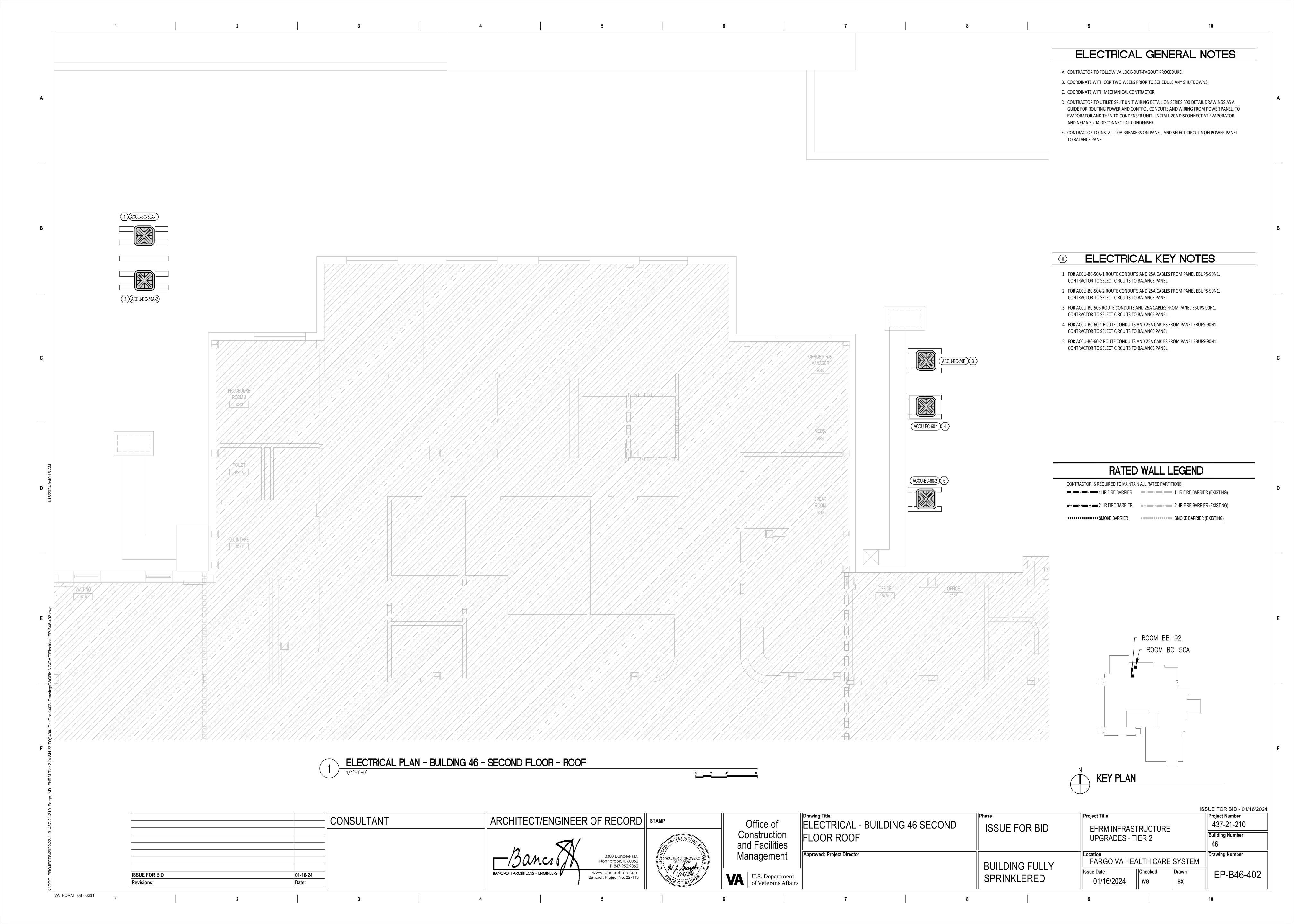
2 HR FIRE BARRIER 2 HR FIRE BARRIER 2 HR FIRE BARRIER (EXISTING)





ISSUE FOR BID - 01/16/2024 Drawing Title
ELECTRICAL - BLDG-1-9-46 - ENLARGED Project Title Project Number CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of 437-21-210 ISSUE FOR BID EHRM INFRASTRUCTURE Construction and Facilities **Building Number** PLANS - PENTHOUSE **UPGRADES - TIER 2** 01, 09, 46 Approved: Project Director Drawing Number Management 3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 WALTER J. GROSZKO THE 1062-036261 THE 1/16/24 S FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** www. bancroft-ae.com Bancroft Project No: 22-113 Checked Drawn EP-B1-451 BANCROFT ARCHITECTS + ENGINEERS U.S. Department of Veterans Affairs **ISSUE FOR BID** 01-16-24 SPRINKLERED 01/16/2024 вх Date: Revisions:





DISTRIBUTION TE BOX 46-DACU-6 \_\_\_\_\_ **L-==** UPS 200KW-2 BATTERY-4 **⊢−−−**i 46-DACU-5 BC-60 ㄴㅜㅡㅡᆜ | | EBUPS-90N1 CLEANOUT I EBUPS-90N2 BC-50A MDAC 15 EB UPS-90N6 90N1 BLDG #9, SWBD #38 → EB 90N1, CKT 19 EB46N TEL#1 EB46N TEL#2 ACP-3000 ELECTRICAL - ENLARGED DEMOLITION PLAN RM BC-50A AND BC60

ARCHITECT/ENGINEER OF RECORD | STAMP

BANCROFT ARCHITECTS + ENGINEERS

3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362

www. bancroft-ae.com Bancroft Project No: 22-113

WALTER J. GROSZKO THE 20 1062-036261

CONSULTANT

01-16-24

#### ELECTRICAL GENERAL NOTES

- A. DISCONNECT POWER AND CONDUITS TO CRAC UNITS IN BC-50: MDAC15, 46-DACU-6 AND
- B. AFTER NEW MCR IS COMPLETED, AND ALL IT EQUIPMENT HAS BEEN MOVED/MIGRATED TO NEW MCR, AND UPS-B IN MCR IS OPERATIONAL, AND EMERGENCY POWER IS SUPPORTING ALL TR
- ROOMS, UPS A WILL BE DISMANTLED AND RELOCATED INTO NEW MCR. C. CONTRACTOR TO OBTAIN PERMISSION FROM VA COR TO SHUT DOWN MONOLITHIC UPS A.
- D. CONTRACTOR TO DEVELOP A "METHOD OF PROCEDURE" / LOCKOUT-TAGOUT PROCEDURE TO COMPLETELY SHUTDOWN AND DE-ENERGIZE ALL POWER TO OLD UPS AND BYPASS SYSTEM.
- E. CONTRACTOR TO FOLLOW PROCEDURE FOR SHUTTING DOWN MONOLITHIC UPS A, AND THEN OPENING ALL REQUIRED BREAKERS TO COMPLETELY DE-ENERGIZE ALL POWER TO UPS AND BYPASS BREAKERS.
- F. HIRE UPS VENDOR TO DECOMMISSION UPS-A AND CONFIGURE THE UPS INTO SECTIONS FOR MOVING TO NEW MCR.
- a. MONOLITHIC UPS AND BATTERIES WILL BE RELOCATED INTO UPS ROOM BE-97.
- b. THE THREE TIE CABINETS WILL BE RELOCATED TO UPS ROOM BE-97.
- c. THEN FOLLOW DIRECTIONS ON NEW DRAWING EP-B1-203 FOR ROOM BE-97.
- G. VERIFY THAT ALL EQUIPMENT HAS BEEN DISCONNECTED FROM OLD LOCATION OF MONOLITHIC
- H. VERIFY THAT BOTH MONOLITHIC UPS A AND NORMAL UPS B ARE OPERATIONAL.
- I. VERIFY THAT NEW BLGD. 1, 1,560KVA EMERGENCY GENERATOR IS FULLY OPERATIONAL.
- J. VERIFY THAT NEW CIRCUITS HAVE BEEN PROVIDED TO THE TWO DEMARKS (SEE DRAWING EP-B1-101).
- K. REUSE FORMER PANEL EPUPS-90N1, 400A AND RENAME PANEL AS PANEL 90N1. EXTEND CONDUIT THAT PREVIOUSLY FED MTS EB90N3 TO FEED RENAMED PANEL 90N1.
- L. THE FOLLOWING PANELS (AND CONDUITS AND WIRING) THAT USED TO SERVE THE OLD DATA
- CENTER CAN NOW BE REMOVED: a. MTS EB90N1 - FED FROM BLDG 9 SWGR EB, AND FROM BLDG 9 NORMAL SWGR.
- b. PANEL EB90N1.
- c. MTS EB90N3 FED FROM BLDG 9 EB SWGR AND FROM BLDG 9 NORMAL SWGR.
- d. PANEL EB90N3.

f. PANEL EBUPS90N1.

- e. PARALLEL TIE CABINET.
- g. ALL OTHER PANELS THAT HAVE UPS IN THEIR NAME.
- M. TURNOVER PANELS AND SWITCHES TO COR.
- N. PROPERLY DISCARD ALL OLD CONDUITS, WIRING, CABLING, OLD NETWORK CABLING FROM ABOVE AND BELOW THE RAISED FLOOR TO LEAVE AREA AS A CLEAN STORAGE FACILITY.

## ELECTRICAL KEY NOTES

- 1. REMOVE ALL CONDUIT AND WIRING FROM CRAC 46-DACU-5.
- 2. REMOVE ALL CONDUIT AND WIRING FROM CRAC 46-DACU-6.
- 3. REMOVE ALL CONDUIT AND WIRING FROM CRAC MDAC-15.
- 4. LEAVE PANEL EB-90N1 IN PLACE. THIS PANEL WILL REMAIL TO FEED EQUIPMENT THAT REMAINS
- 5. REMOVE ALL CONDUIT AND WIRING FROM CRAC MDCA3.
- 6. REMOVE ALL CONDUIT AND WIRING FROM CRAC.

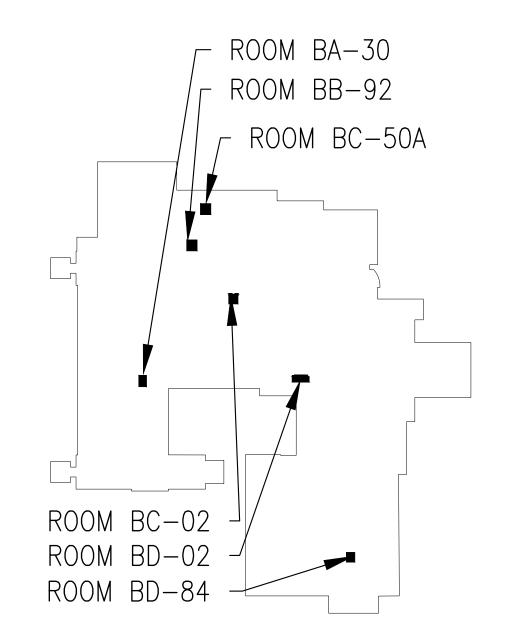
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2 HR FIRE BARRIER 2 HR FIRE BARRIER (EXISTING)

SMOKE BARRIER (EXISTING) INNUMERATION SMOKE BARRIER





**UPGRADES - TIER 2** 

ISSUE FOR BID - 01/16/2024 Project Number 437-21-210 EHRM INFRASTRUCTURE Building Number Drawing Number

EPD-B46-403

FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** Drawn SPRINKLERED

Project Title

ISSUE FOR BID

Drawing Title
ELECTRICAL - UPS SYSTEM A ROOM

BC-50A AND BC-60 DEMOLITION

Approved: Project Director

Office of

Construction and Facilities

Management

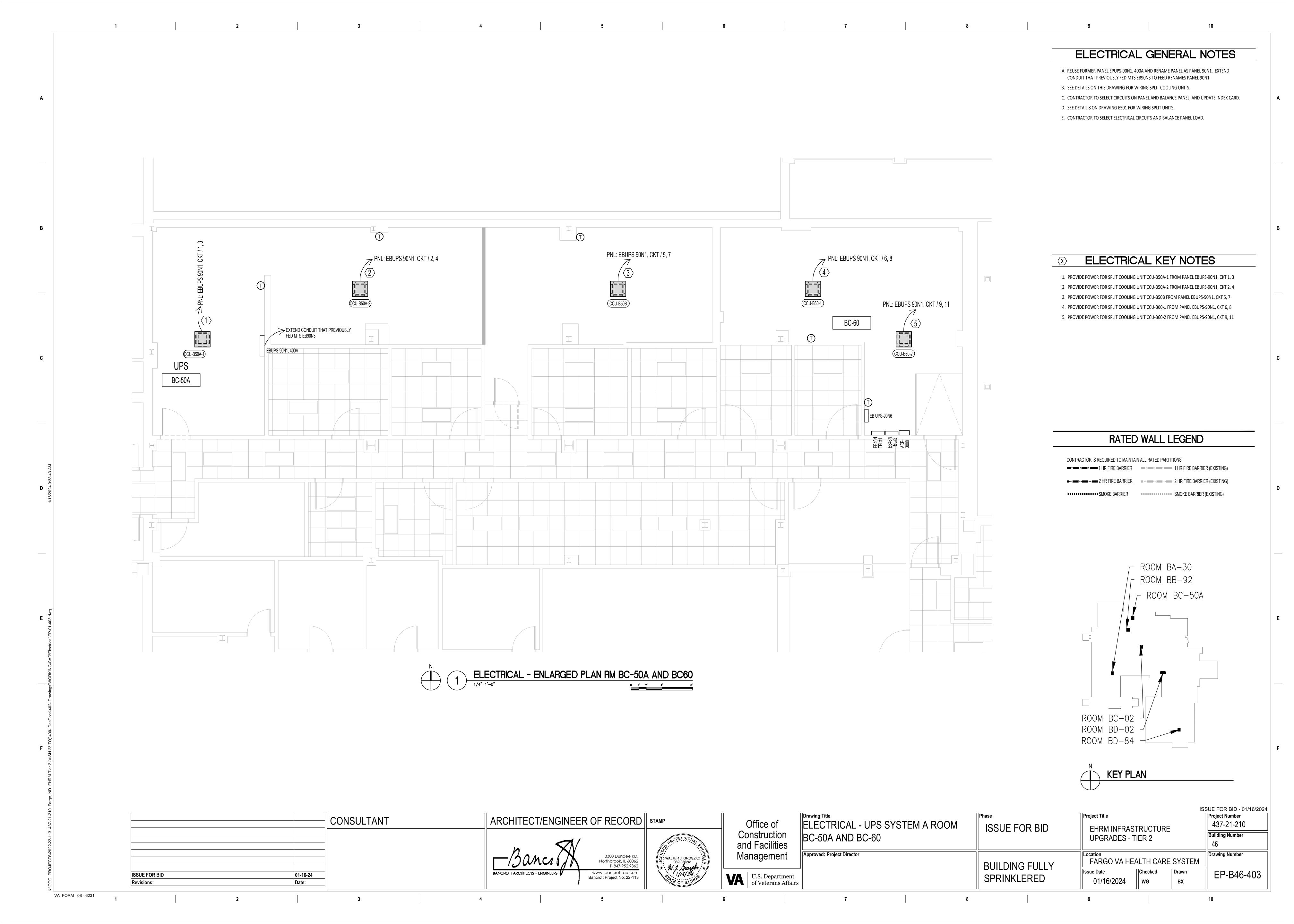
U.S. Department of Veterans Affairs

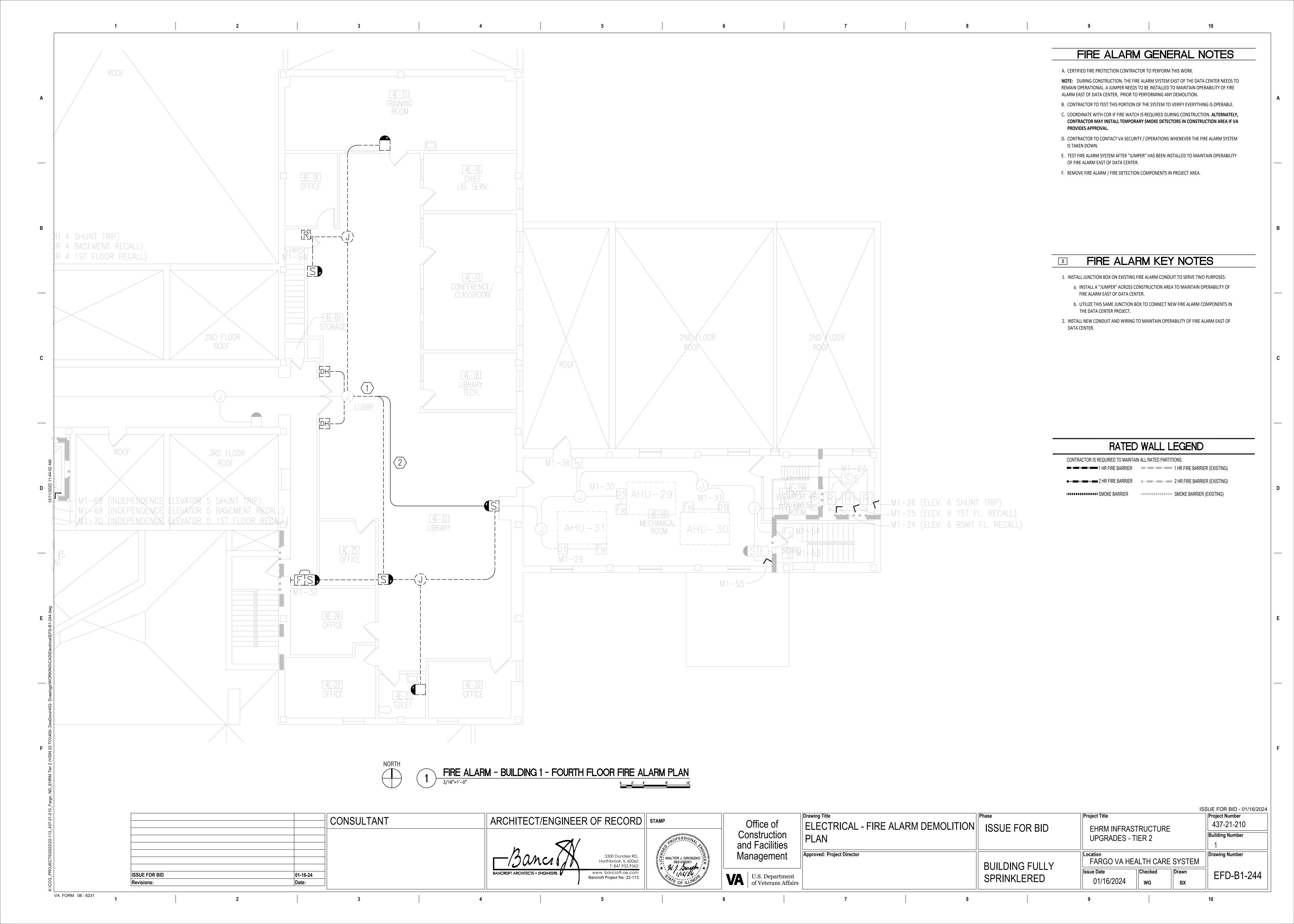
01/16/2024 вх

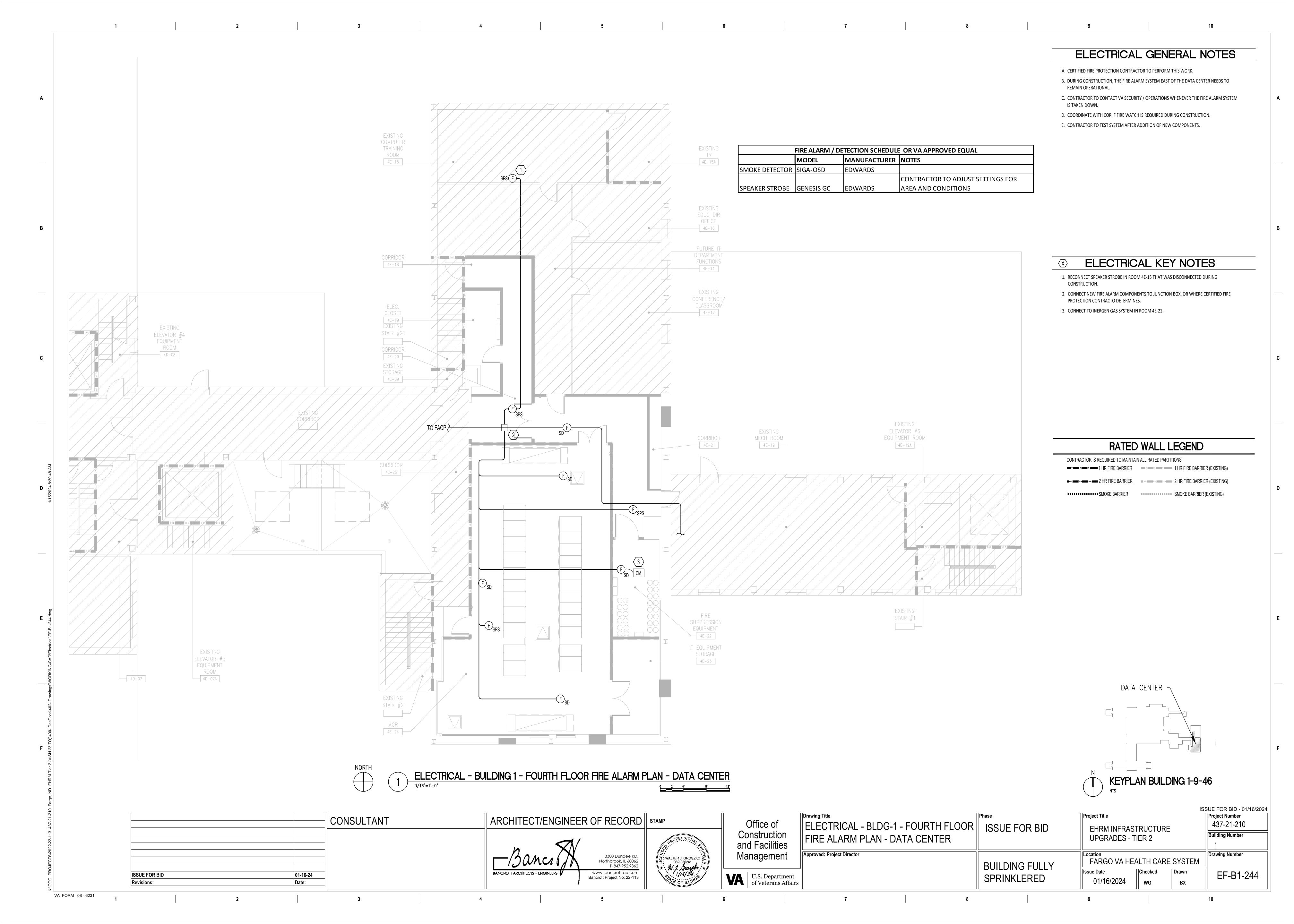
VA FORM 08 - 6231

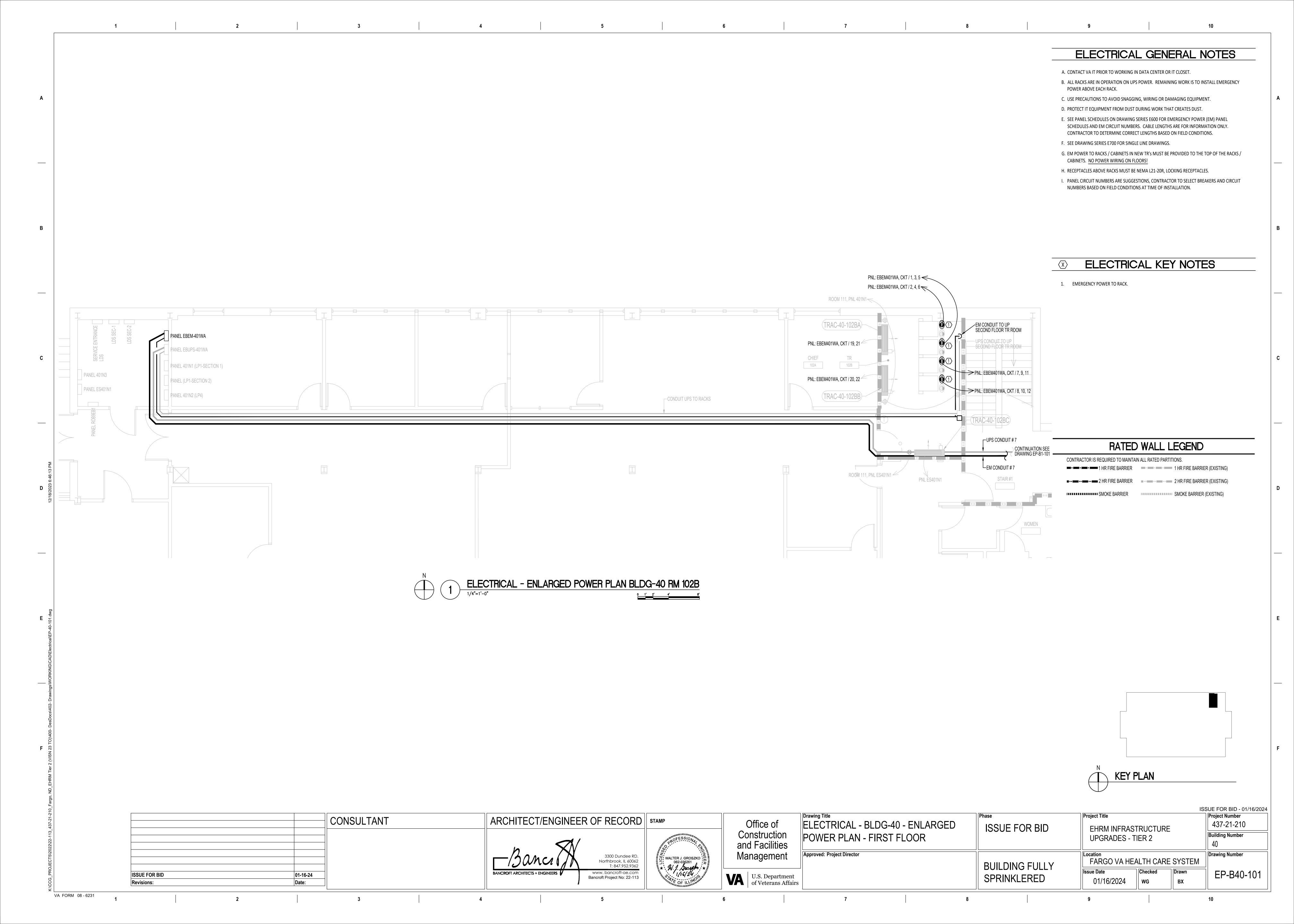
**ISSUE FOR BID** 

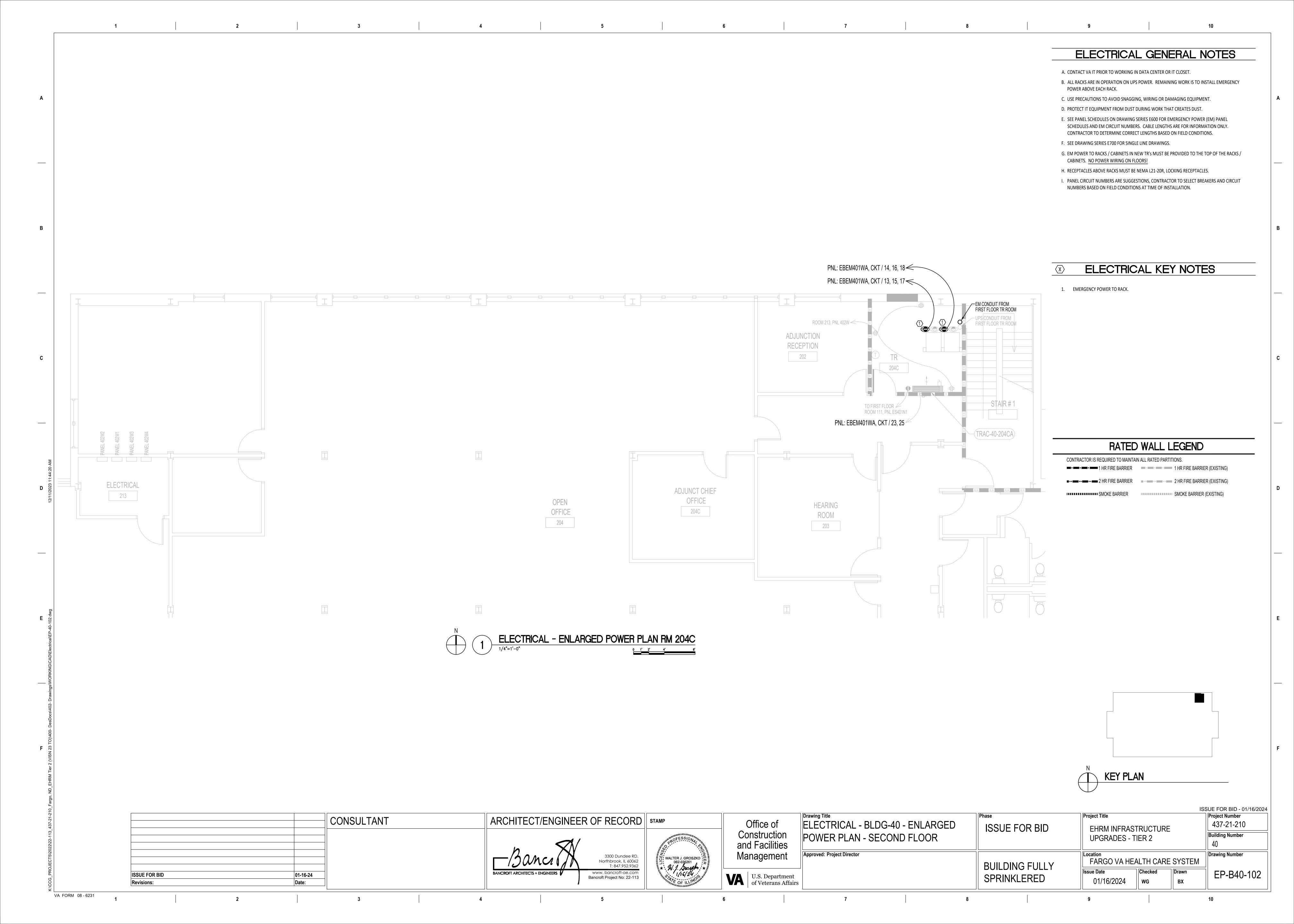
Revisions:

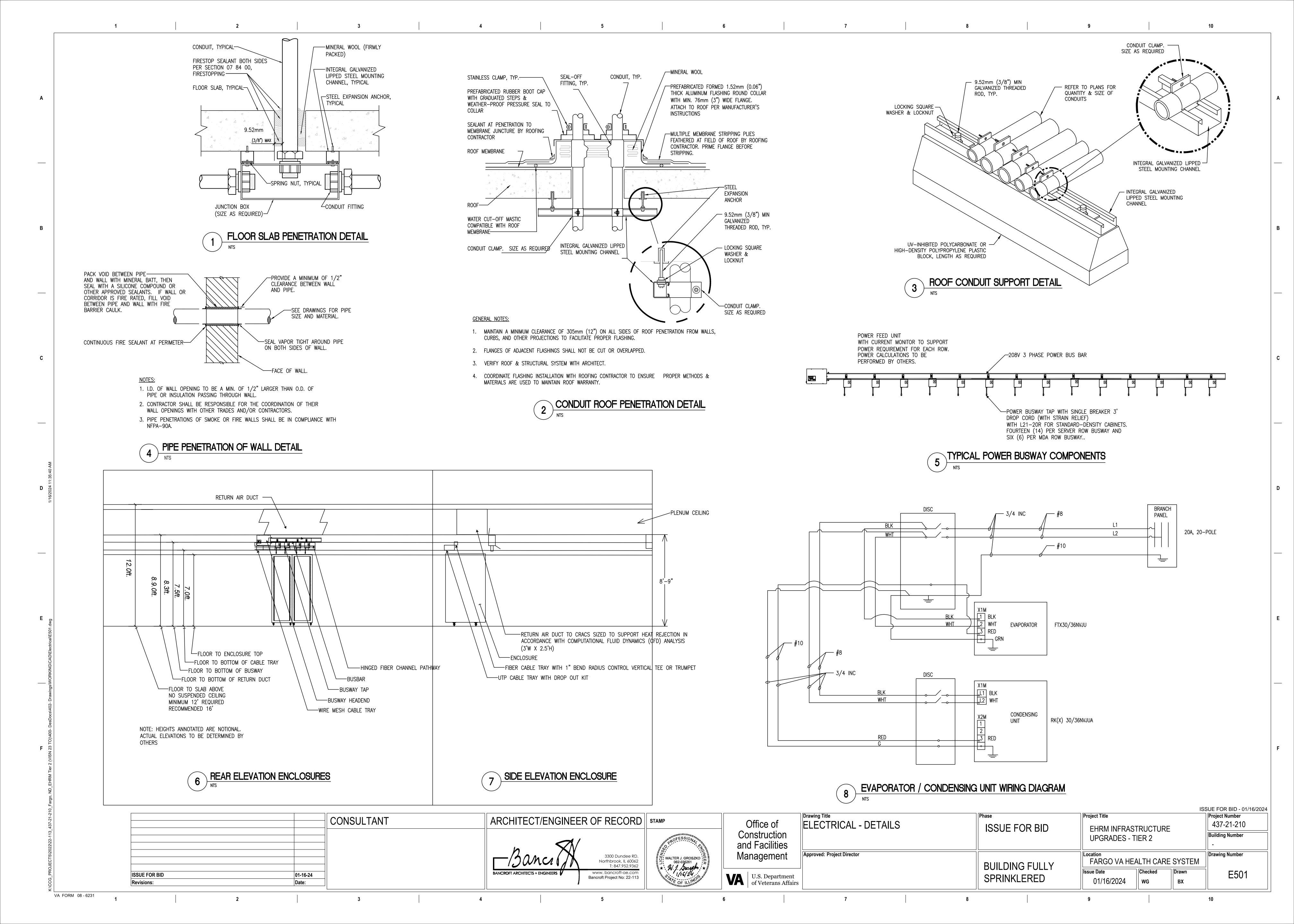


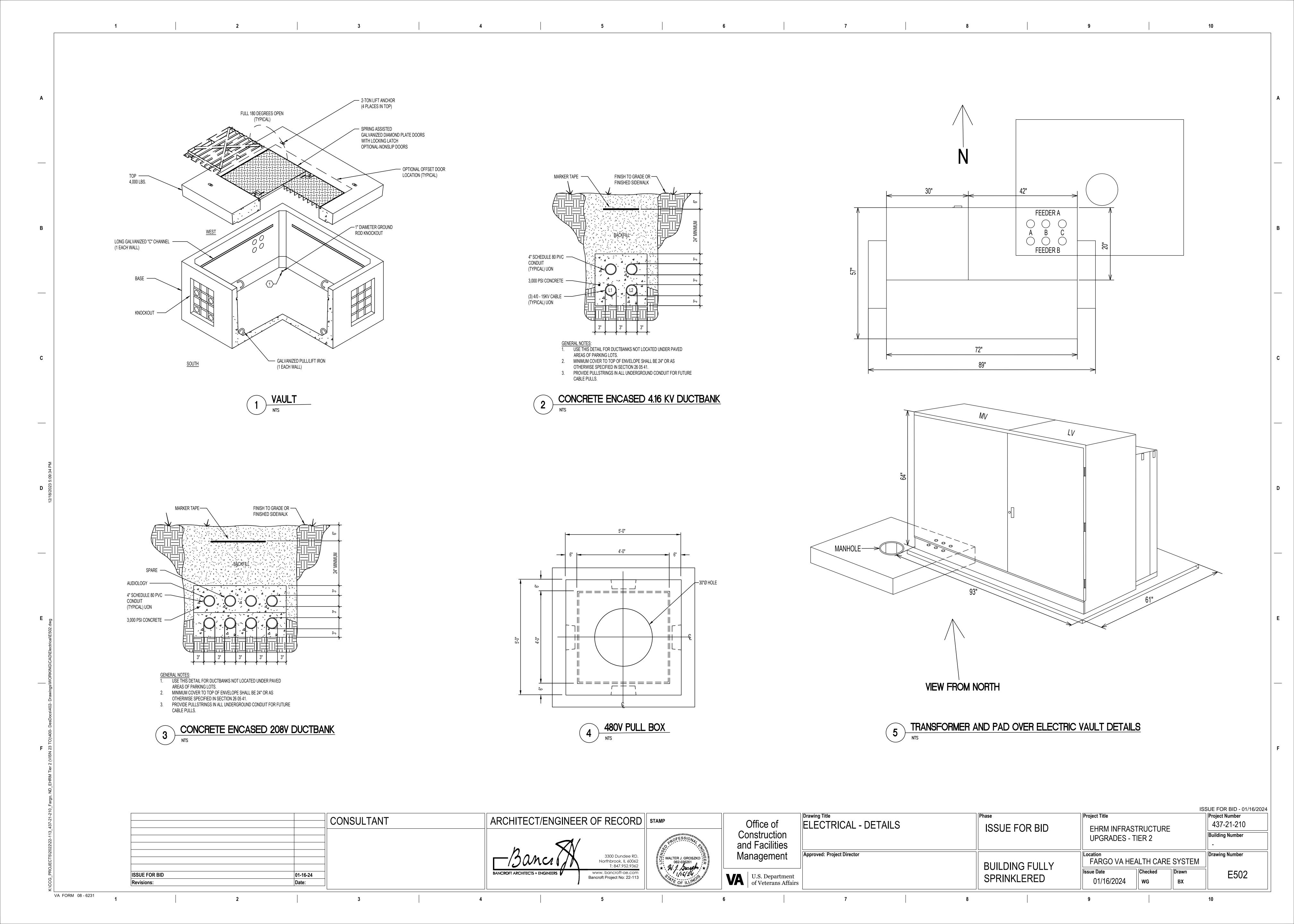










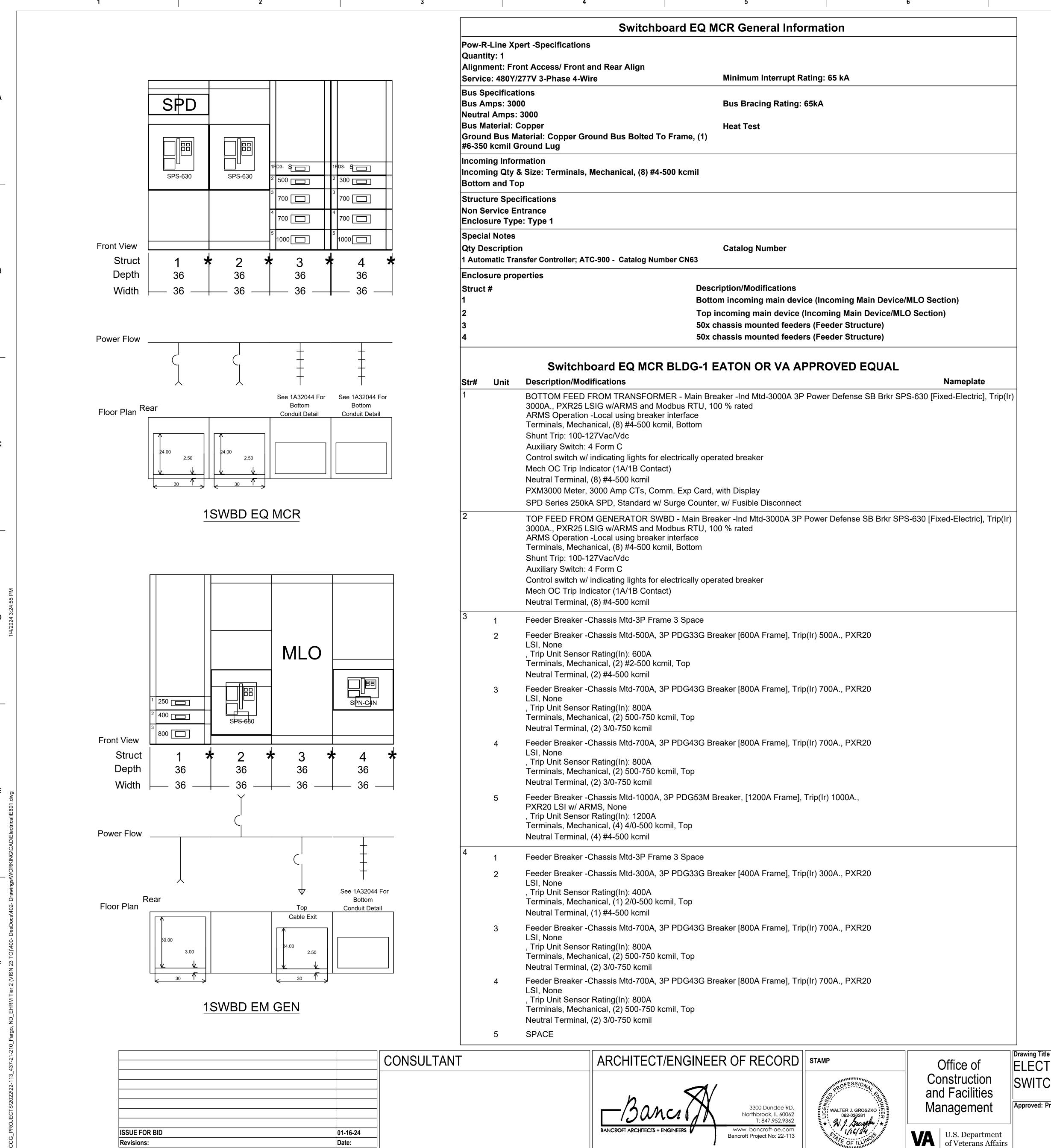


FARGO MCR ELECTRICAL LOAD SCENARIOS 10% Schematic Design

NORMAL	OPERATION	ON UTILITY				•	, UTILITY FAI 10 SEC. POW			A FAILED OR II					N MAINTEN	
	MONOLITHIC UPS A	UPS B	PANEL PP-EM	PANEL PP 2-EM	MONOLITHIC UPS A	UPS B	PANEL PP-EM	PANEL PP 2-EM	MONOLITHIC UPS A	UPS B	PANEL PP-EM	PANEL PP 2-EM	MONOLITHIC UPS A	UPS B	PANEL PP-EM	PANEL PP 2-EM
MCR CABINETS ROWS A & B	40,000	40,000			40,000	40,000				80,000			80,000			
MCR SERV. ENT A	2,500	10,000	2,500		2,500	10,000	2,500			33,333	5,000		2,500		2,500	
BASEMENT TR'S	16,250		16,250		16,250		16,250				32,500		16,250		16,250	
1ST FLOOR TR'S	22,500		22,500		22,500		22,500				45,000		22,500		22,500	
2ND FLOOR TR'S	21,250		21,250		21,250		21,250				42,500		21,250		21,250	
3RD FLOOR TR'S	11,250		11,250		11,250		11,250				22,500		11,250		11,250	
4TH FLOOR TR'S	7,500		7,500		7,500		7,500				15,000		7,500		7,500	
PENTHOUSE TR'S	7,500		7,500		7,500		7,500				15,000		7,500		7,500	
BLDG 40 TR'S	8,750		8,750		8,750		8,750				17,500		8,750		8,750	
BLDG 40 SERV. ENT B	2,500		2,500		2,500		2,500				5,000		2,500		2,500	
EQUIPMENT & LIGHTS				174,320				174,320				174,320				174,320
	140,000	40,000	100,000	174,320	140,000	40,000	100,000	174,320	0	80,000	200,000	174,320	180,000	0	100,000	174,320
TOTAL POWER TO MCR				454,320 VA				454,320 VA				454,320 VA				454,320 V

NOTE: ALL POWER IS 208/120V

ISSUE FOR BID - 01/16/2024
Project Number Drawing Title
ELECTRICAL - UPS EM POWER Project Title CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of 437-21-210 ISSUE FOR BID EHRM INFRASTRUCTURE Construction and Facilities Building Number FAILOVER SCENARIOS **UPGRADES - TIER 2** Approved: Project Director Drawing Number Management 3300 Dundee RD.
Northbrook, IL 60062
T: 847.952.9362
www. bancroft-ae.com
Bancroft Project No: 22-113 FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** Checked Drawn EP500 ISSUE FOR BID BANCROFT ARCHITECTS + ENGINEERS U.S. Department of Veterans Affairs 01-16-24 SPRINKLERED 01/16/2024 ВХ Revisions: Date:



ELECTRICAL GENERAL NOTES

- A. WHEN ORDERING SWITCHBOARDS PROVIDE SINGLE LINE DRAWING, WIRING DRAWING AND PLAN DRAWING TO MANUFACTURER. MANUFACTURER NEEDA TO KNOW HOW THE SWITCHBOARD STRUCTURES ARE SPLIT AND HOW THE CABLING WILL ENTER THE SWITCHBOARD STRUCTURES.
- B. WHEN ORDERING UPS'S ALSO PROVIDE DRAWING E708 TO MANUFACTURER TO IDENTIFY PROPER BREAKERS IN THE UPS DISTRIBUTION PANELS.

		Switchboard EM GEN General Information
Quanti Alignn	ity: 1 nent: Fro	oert -Specifications ont Access/ Front and Rear Align 277V 3-Phase 4-Wire Minimum Interrupt Rating: 65 kA
Bus Ai Neutra Bus Ma Groun		Bus Bracing Rating: 65kA 4000
	ing Infor	mation & Size: Terminals, Mechanical, Top (11) #4-500 kcmil,
Non S	ervice E	cifications ntrance e: Type 1
Str#	Unit	Switchboard EM GEN BLDG-1 EATON OR VA APPROVED EQUAL  Description/Modifications  Nameplate
1	1	Feeder Breaker ATS-LS BLDG-1 - Chassis Mtd-250A, 3P PDG33M Breaker [400A Frame], Trip(Ir) 250A., Thermal Mag Terminals, Mechanical, (1) 2/0-500 kcmil, Top Neutral Terminal, (1) #4-500 kcmil
	2	Feeder Breaker ATS-CR BLDG-1 -Chassis Mtd-400A, 3P PDG33M Breaker [400A Frame], Trip(Ir) 400A., Thermal Mag Terminals, Mechanical, (1) 2/0-500 kcmil, Top Neutral Terminal, (1) #4-500 kcmil
	3	Feeder Breaker ATS-EQ BLDG-1 -Chassis Mtd-800A, 3P PDG53M Breaker, [800A Frame], Trip(Ir) 800A., PXR20 LSI, None , Trip Unit Sensor Rating(In): 800A Terminals, Mechanical, (4) 4/0-500 kcmil, Top Neutral Terminal, (4) #4-500 kcmil
2		Roll up Breaker - Ind Mtd-4000A 3P Power Defense SB Brkr SPN-C4N [Fixed-Manual], Trip(Ir) 4000A., PXR25 LSI w/ARMS and Modbus RTU, 100 % rated ARMS Operation -Local using breaker interface Terminals, Mechanical, (11) #4-500 kcmil, Top Auxiliary Switch: 4 Form C
3		Incoming Lugs from Generator
4		Feeder Breaker SWBD EQ MCR BLDG-1 - Ind Mtd-3000A 3P Power Defense SB Brkr SPS-630 [Fixed-Manual], Trip(13000A., PXR25 LSI w/ARMS and Modbus RTU, 100 % rated ARMS Operation -Local using breaker interface Terminals, Mechanical, (8) #4-500 kcmil, Top Auxiliary Switch: 4 Form C

Neutral Terminal, (8) #4-500 kcmil

ISSUE FOR BID - 01/16/2024 Project Number Project Title ELECTRICAL - EQ MCR AND EM GEN 437-21-210 ISSUE FOR BID EHRM INFRASTRUCTURE **Building Number** SWITCHBOARD SCHEDULES **UPGRADES - TIER 2** Approved: Project Director Drawing Number FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** Checked E601 SPRINKLERED 01/16/2024 вх

				PS B SYST																												
EQUIPMENT TAG	QUANTITY	KW, A	VOLTAGE	EFFICIENCY	UPS BATTERY UPTIME	CAT.	NO.	KAISC	BASIS OF DESIGN	NOTES																						
UPS MODULE B, GC341027X1K1	1	80 KW	208V, 4- W IN 208V, 4- W OUT	99% <u>w</u> ESS	N/A	93PM UPS wire in, 20	93PM UPS 208V, 4 wire in, 208 or 220V		# 9GK040A025A00R0 93PM UPS 208V, 4 wire in, 208 or 220V 3 or 4 wire out		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		93PM UPS 208V, 4 wire in, 208 or 220V		EATON	WITH ENGRAVED OPERATING INSTRUCTIONS
BATTERY CABINET B	1	50 KW HR	452 A DC	N/A	14 MIN.	93PM IBC-LW Battery Cabinet, Qty 2/2		# 9PZTJBE39020000 93PM IBC-LW		93PM IBC-LW Battery Cabinet, Qty 2/2		93PM IBC-LW Battery Cabinet, Qty 2/2		93PM IBC-LW Battery Cabinet, Qty 2/2		93PM IBC-LW Battery Cabinet, Qty 2/2		N/A	EATON	VRL BATTERY, 14 MIN. INITIAL, AND 10 MIN AT END OF BATTERY LIFE AT 80KW. NOTE THAT REMAINING BATTERIES WILL BE PURCHASED WHEN UPS #2 IS ENERGIZED. NOTE THAT YEAR 2 BATTERIES SHOULD BE ON BATTERY RACK TO FIT IN 2 HR FIRE RATED ROOM.												
3 C/B MAINTENANCE BYPASS CABINET B	1	1600A	208∀	N/A	N/A	93PM IAC- 3 Breaker Key Interl	93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		9PZRDB100010000 93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top Air Exhaust		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		93PM IAC-B 200kW, 3 Breaker 65kAIC, Key Interlock, Top		EATON	208Y / 120V, 3 PH, 4 W. 2-KEY INTERLOCK BETWEEN MIS/MBP BREAKERS WITH SOLENOID KEY RELEASE UNIT & INDICATOR LAMP, MAKE BEFOR BREAK.		
UPS CONTROL BOARD	1	N/A	N/A	N/A	N/A	93PM 208V PREDICTPULSE		N/A	EATON																							
UPS MODULE A	1	N/A	N/A	N/A	N/A	N/A				WITH ENGRAVED OPERATING INSTRUCTIONS																						

	ELECTRICAL EQUIPMENT SCHEDULE OR VA APPROVED EQUAL													
EQUIPMENT TAG	QUANTITY	SINGLE LINE DWG	PANEL SCHEDULE	MODEL / TYPE	ELECTRIC CLOSET	VOLTS	ļ	AMPS	NEUTRAL	POLES	SHORT CIRCUIT RATING	BASIS OF DESIGN	NOTES	
							BUS	MAIN			KAISC			
PNL BUSWAY UPS A (SEE NOTE)	1	E707	E600 SERIES	Pow-R-Line 4B	MCR	208/120V	250	250	200%	18	22	EATON	PURCHASE MAIN BREAKER WITH 120V SHUNT TRIP FROM EPO BUTTON	
PNL BUSWAY UPS B (SEE NOTE)	1	E707	E600 SERIES	Pow-R-Line 4B	MCR	208/120V	250	250	200%	18	22	EATON	PURCHASE MAIN BREAKER WITH 120V SHUNT TRIP FROM EPO BUTTON	
PP-1-EM	1	E707	E600 SERIES	Pow-R-Line 4B	MCR	208/120V	1,000	1000	200%	60	22	EATON	WITH SURGE PROTECTION	
PP-2-EM MCR	1	E707	E600 SERIES	Pow-R-Line 4B	EM GEN ROOM	208/120V	750	750	100%	60	22	EATON		
PP-3-EM MCR	1	E707	E600 SERIES	Pow-R-Line 4B	MCR	208/120V	500	500	100%	42	22	EATON		
PP-EL-MCR	1	E707	E600 SERIES	Pow-R-Line 1a	MCR	208/120V	100	100	100%	42	22	EATON	LIGHTING AND RECEPTACLES	
BASEMENT EM	1	E707	E600 SERIES	Pow-R-Line 1a		208/120V	150	150	200%	42	22	EATON	BSMNT TR'S & (2) DEMARKS	
EBEM461NA	1	E707	E600 SERIES	Pow-R-Line 1a	1B-121	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
EBEM011CB	1	E707	E600 SERIES	Pow-R-Line 1a	1D-01	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
EBEM092NA	1	E707	E600 SERIES	Pow-R-Line 1a	2B-32	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
EBEM012CB	1	E707	E600 SERIES	Pow-R-Line 1a	2C-91	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
ЕВЕМ463СА	1	E707	E600 SERIES	Pow-R-Line 1a	3C-38	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
EBEM014CA	1	E707	E600 SERIES	Pow-R-Line 1a	4D-06	208/120V	250	250	200%	60	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
EBEM095CA	1	E707	E600 SERIES	Pow-R-Line 1a	PENTHOUSE A	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
EBEM401WA	1	E707	E600 SERIES	Pow-R-Line 1a	BLDG 40, RM 102B	208/120V	150	150	200%	42	22	EATON	with EZ TRIM DOOR IN DOOR CONSTRUCTION	
100A, 3-POLE BRKR	1	E707	N/A	HFD 100AT/100AF	UPS A DIST. PNL	208/120	N/A	100	N/A	3	22	EATON	INSTALL IN UPS A DISTRIBUTION PANEL	

EQUIPMENT TAG	EQUIPMENT NAME	LOCATION	VOLTAGE	KW	KVA	AMPS	Pf		N THIS SCHEDULE**** REMARKS	PROJECT ITEM NO	RASIS OF DESI
01-GEN 1	BLDG 1 EM GENERATOR	ROOM EM-97	120/208V	1250	1560	4333	0.8	CAT C32	STANDBY GENERATOR	437-21-210   36C26319D0044	CATERPILLA
MECHANICAL FEATURES	/ DETAILS							DESIGN	REMARKS	PROJECT ITEM NO	BASIS OF DESI
MMISIONS									EPA Stationary Emergency (Tier 2)		CATERPILLA
NGINE POWER (BHP								1,829			
GEN POWER WITH FAN (E	KW):							1,250			
COMPRESSION RATIO								14			
RATING LEVEL								STANDBY			
PUMP QUANTITY								1			
UEL TYPE								DIESEL			
MANIFOLD TYPE								DRY			
SOVERNOR TYPE								ADEM4			
LECTRONICS TYPE								ADEM4			
GNITION TYPE								CI			
NJECTOR TYPE								EUI			
REF EXHISTACK DIAMETE	ER (IN):							6			
MAX OPERATING ALTITUD	DE (FT):							5,400			
COMBUSTION:								DIRECT INJECTION			
NGINE SPEED (RPM):								1,800			
IERTZ:								60			
AN POWER (HP):								60.3			
SPIRATION								TA			
FTERCOOLER TYPE:								ATAAC			
FTERCOOLER CIRCUIT T	YPE:							JW+OC, AC			
NLET MANIFOLD AIR TEM	P (F):							120			
ACKET WATER TEMP (F)	:							210.2			
URBO CONFIGURATION								PARALLEL			
URBO QUANTITY								2			
URBOCHARGER MODEL								GT5733- 1.6A/R			
CERTIFICATION YEAR								2017			
PISTON SPD @ RATED EN	NG SPD (FT/MIN):							1,913.40			
DT-1	DAY TANK	ROOM EM-97	120/208V					STS200	SIMPLEX DRAWING # ACD- 00035296, REV E		SIMPLEX
JACKET WATER PUMP	JACKET WATER PUMP	ROOM EM-97	120/208V					CAT	JACKET WATER PUMP FOR C32 ACERT IND/PETROLEUM		CATERPILLA
JACKET WATER HEATER	JACKET WATER HEATER	ROOM EM-97	120/208V	9		41		CAT	Jacket Water Heater with Pump Diesel Genset: C32	CAT DOC # LEHE1310-02	CATERPILLA
BTC 20A2	BATTERY CHARGER	ROOM EM-97	110-120V / 24VDC			20		CAT	AC AND DC FUSES, 20A, 60 HZ, 124 DEG F TO 140 DEG F	CAT DOC # LEHE0140-01, 20A	CATERPILL <i>i</i>
GEN HEATER	GENERATOR SPACE HEATER	ROOM EM-97	120/208V	500W				CAT	FOR 1400 GEN FRAME	CAT DOC # LEHE1268-01	CATERPILL

EMERGENCY GENERATOR EQUIPMENT SCHEDULE OR VA APPROVED EQUAL

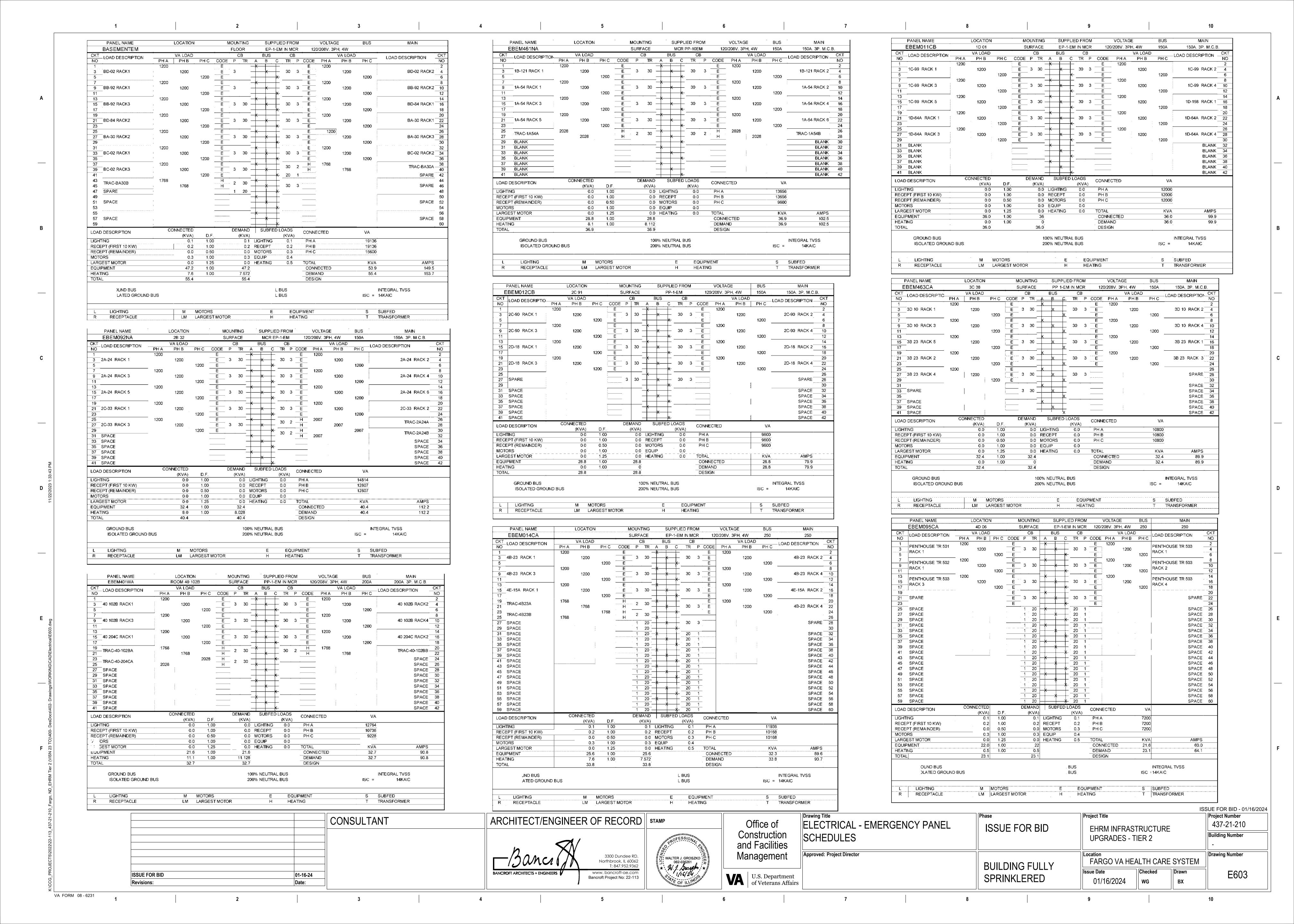
	<b>T</b>		TING FIXTURE SCHEDULE -				VE EQUAL	
		LIGHTING FIXTURE		LAMPS	FIXTU	IRE		
TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	CATALOG NUMBER	TYPE	WATTS	VOLTS	MOUNTING	REMARKS
		LITHONIA LIGHTING OR	CLX L48 5000LM SEF FDL				SURFACE	
CLX	4' STRIP LIGHT	VA APPROVED EQUAL	MVOLT GZ10 40K 80CRI WH	LED	46	MVOLT	CEILING	
		LITHONIA LIGHTING OR	FML4W 48 5000LM ZT				CLIDEA CE MALL	INSTALL FLUSH AGAINST WALL, TOP OF
WALL	4' LINEAR LED	VA APPROVED EQUAL	MVOLT 5089 LUMENS	LED	53.4	MVOLT	SURFACE WALL	FIXTURE 10' AFF, nLight DIMMING
		VOLUMETRIC LED	2VTL4 30L ADP MVOLT EZ2				RECESSED	TROFFER HAS INTEGRATED OCCUPANCY
TROFFER	2 FT x 4 FT	TROFFER	LP835N80 NES7	LED	40	MVOLT	KECE33ED	SENSOR
		LITHONIA LIGHTING OR	LQM S W 3 R 120/277 M6				CEILING	CONTRACTOR TO SELECT DIRECTIONAL
EXIT	RED EXIT LIGHT	VA APPROVED EQUAL	LQIVI 3 W 3 K 120/2/7 IVIB	LED	0.62	120/277	CEILING	ARROWS FOR EACH LOCATION
GENERAL N	IOTES:							
1. FOR EXA	CT LOCATIONS OF	ALL LIGHTING FIXTURES R	EFER TO THE ARCHITECTURAL	REFLECTED	CEILING PLAN	NS AND ELE	VATIONS.	
2. LAMP TY	PE DESIGNATIONS	FOLLOW NEMA DESIGNA	TION GUIDELINES. VERIFY AN	D COORDII	NATE REQUIRE	D TRIM KIT	S, MOUNTING.	
3. VERIFY A	AND COORDINATE	REQUIRED TRIM KITS, AND	MOUNTING.					
4. SEE nLigh	nt DETAIL FOR POV	VER AND CONTROL WIRIN	G.					
5. LAMPS F	OR ALL FIXTURES S	HALL HAVE THE SAME COI	OR TEMPERATURE PER SPECI	FICATIONS				
6. FOLLOW	ADDITIONAL GEN	ERAL AND KEY NOTES ON	LIGHTING DRAWINGS.					

		ACCUITY / LITHONIA LIGHT SWITCHES AND SENSORS BASIS OF DESIGN	GN OR VA APPROVED EQUA	L
ITEM	DESCRIPTION	FUNCTION	CATALOG NUMBER	NOTES
N/A	SWITCH - S	ON\OFF, WALL POD	nPODMA DX	
N/A	OCCUPANCY SENSOR	CEILING OCCUPANCY SENSOR, HIGH MOUNT	nCM PDT 9 RJB	

NTED COMPARTMENTAL TYPE TRANSFORMER
Product Scope
Three Phase, Degree Celsius Rise, 60 Degree Celsius
Mineral oil
750 KVA
4160 V
208Y/120V
UL Listed & Labeled and Classified
Factory Mutual (FM) Approved
5.75 Ω
65 Degree Celsius

		STAR	LINE UPS BUSWAY OR VA APPROVED EQUAL
Item No.	Qty 56	<b>Product</b> LV Busway	Description
		22	OB with (2) L21-20R Receptacles 2kAIC rated breakers clude strain relief
			Designation TOB with (2) L21-20R Receptacles
Item No.	Qty 4	Product LV Busway	Description
		15 Ind	0' 250A 208/120V Busway Run 50% Neutral and housing ground cludes end feed, starter rail, end cap, couplers and all hangers needed to stall busway
			Designation 30' 250A Busway Run

437-21-21			CONSULTANT	ARCHITECT/ENGIN	IEER OF RECORD	STAMP		Drawing Title ELECTRICAL - EQUIPMENT, LIGHTING	ISSUE FOR BID	Project Title  EHRM INFRAS	STDI ICTI IDE		SSUE FOR BID - 01/16/202 Project Number 437-21-210
22/22-113_					<b>%</b> /	ANTINIA PROFESSION TO THE		AND UPS SYSTEM SCHEDULES	IOOOL I OIY DID	UPGRADES -			Building Number
OJECTS/20				-Bancil	3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	WALTER J. GROSZKO	Management	Approved: Project Director	BUILDING FULLY	Location FARGO VA HE	EALTH CARE	E SYSTEM	
ACCG_PRC	ISSUE FOR BID Revisions:	01-16-24 Date:		BANCROFT ARCHITECTS + ENGINEERS	www. bancroft-ae.com Bancroft Project No: 22-113	1/16/24 6 ILLINGHAM	U.S. Department of Veterans Affairs		SPRINKLERED	Issue Date 01/16/2024	Checked WG	Drawn BX	E602
Ÿ	2		3	4	5		6	7   8	8	9			10



UPS A DISTRIBUTION WIRING SCHEDULE TO SPLICE NEW UPS WIRING INTO EXISTING UPS WIRING **FROM** NEW **EXISTING** LENGTH OF NEW V **EXISTING CONDUIT BREAKER SIZE** MAX EXISTING EXISTING **EXISTING UPS FEEDER NOTES FEEDER** NEW CABLE | DROP TRIP SETTING **CABLE** AMPS | LENGTH | V DROP **PANEL** CABLE ROOM **CABLE ITEM NEW CABLE** LOAD UPS A DISTRIBUTION (OUTGOING MLO) EBUPS461NA 4#4/0&1#4G, 2 1/2 IN C 4#1/0&#6G, 2 IN C 140 SPLICE NEW CABLE TO 2.1 |BE-97 |UPS A DISTRIBUTION (OUTGOING MLO) | 78 4#1/0&#6G, 2 IN C 4#4/0&#2G, 2 1/2 IN C 0.35 | EBUPS011CB EXISTING CABLE IN SPLICE 3.1 BE-97 UPS A DISTRIBUTION (OUTGOING MLO) 78 4#3/0&1#6G, 2 IN C EBUPS092NA 4#4/0&1#4G, 2 1/2 IN C 420 200 140 4.3 4.1 | BE-97 | UPS A DISTRIBUTION (OUTGOING MLO) | 4#4/0&1#4G, 2 1/2 IN C BOX NEAR LOCATION 230 EBUPS012CB 4#1/0&#6G, 2 IN C 160 60 5.1 BE-97 WHERE CONDUIT 4#1&#6G, 1 1/2 IN C 4#3/0&1#6G, 2 IN C 200 130 EBUPS463CA UPS A DISTRIBUTION (OUTGOING MLO) 160 CONTINUES TO UPPER 6.1 BE-97 UPS A DISTRIBUTION (OUTGOING MLO) 4#1/0&#6G, 2 IN C 160 4.5 4#3/0&1#6G, 2 IN C 200 95 EBUPS014CA 7.1 |BE-97 4#4/0&#4G, 2 1/2 IN C 4#250&#4G, 2 1/2 IN C 230 430 EBUPS401WA FLOORS. UPS A DISTRIBUTION (OUTGOING MLO) 310 2.6 78 8.1 BE-97 UPS A DISTRIBUTION (OUTGOING MLO) 4#250&#4G, 2 1/2 IN C 235 EBUPS095CA 4#1&#6G, 1 1/2 IN C 160 255 BASEMENT UPS | NEW UPS PANEL IN TR BD-02 4#250&#4G, 2 1/2 IN C 9.1 BE-97 UPS A DISTRIBUTION (OUTGOING MLO) 400 N/A 150 N/A N/A 5.6 BE-97 UPS A DISTRIBUTION (OUTGOING MLO) 225 N/A CABLE TO 4TH FLOOR MCR 225 SEE EP-B1-201 N/A N/A N/A N/A N/A N/A N/A

NOTE: MATCH PROPER BREAKER SIZE IN UPS A DISTRIBUTION PANEL TO FEEDER CABLE.

NOTE: NEW UPS FEEDER CABLES WILL SPLICE TO EXISTING UPS CABLES IN SPLICE BOXES NEAR LOCATIONS IN BASEMENT WHERE EXISTING UPS CABLES ARE ROUTED UP INTO UPPER FLOORS.

NOTE: ONLY NEW CABLES AND CONDUIT NEED TO BE INSTALLED.

NOTE: REPLACE THE 500A BREAKER ON UPS A DISTRIBUTION PANEL WITH 250A BREAKER

1 UPS A DISTRIBUTION WIRING SCHEDULE FOR TR RACKS

ISSUE FOR BID - 01/16/2024 Project Number Project Title ARCHITECT/ENGINEER OF RECORD | STAMP CONSULTANT Office of ELECTRICAL - UPS-A PANELS WIRING 437-21-210 ISSUE FOR BID EHRM INFRASTRUCTURE Construction **Building Number** SCHEDULE **UPGRADES - TIER 2** and Facilities Approved: Project Director Drawing Number Management 3300 Dundee RD. , WALTER J. GROSZKO FARGO VA HEALTH CARE SYSTEM Northbrook, IL 60062 062-036261 W.J. Stronger \* **BUILDING FULLY** T: 847.952.9362 Drawn Checked E604 www.bancroft-ae.com BANCROFT ARCHITECTS + ENGINEERS U.S. Department of Veterans Affairs **ISSUE FOR BID** 01-16-24 **SPRINKLERED** Bancroft Project No: 22-113 BX Date: Revisions:

3\_PROJECTS\2022\22-113\_437-21-210\_Fargo, ND\_EHRM Tier 2 (VISN 23 TO)\400- DesDocs\402- Drawings\WORI

VA FORM 08 - 6231

ACK	FIVI	POW	/EK	WIKIN	<u>G S</u>	CHEL	JU

		BASEME	NT BLDG 1	, 9, 46 EM WIRIN	NG	
CONDUIT	FR	OM		то	MUDING / CONDUIT	LENGTH
NUMBER	ROOM	PNL	ROOM	RACK	WIRING / CONDUIT	LENGTH
	MCR	PP EM		BASEMENT	203A	
9EM		BASEMENT	BD-02	1	4#2/0&1#6G, 2 IN C	145
		BASEMENT	BD-02	2	4#8&1#10G, 3/4 IN C	
		BASEMENT	BB-92	1	4#10&1#10G, 3/4 IN C	
		BASEMENT	BB-92	2	4#10&1#10G, 3/4 IN C	
		BASEMENT	BB-92	3	4#10&1#10G, 3/4 IN C	
		BASEMENT	BD-84	1	4#6&1#10G, 1 IN C	
		BASEMENT	BD-84	2	4#6&1#10G, 1 IN C	
		BASEMENT	BA-30	1	4#10&1#10G, 3/4 IN C	
		BASEMENT	BA-30	2	4#10&1#10G, 3/4 IN C	
		BASEMENT	BA-30	3	4#10&1#10G, 3/4 IN C	
		BASEMENT	BC-02	1	4#10&1#10G, 3/4 IN C	
		BASEMENT	BC-02	2	4#10&1#10G, 3/4 IN C	
		BASEMENT	BC-02	3	4#10&1#10G, 3/4 IN C	

					78A, 78A	
		2ND F	LOOR BLDG	6 1, 9, 46 EM WIF	RING	
CONDUIT	FF	ROM		ТО	WIDING / CONDUIT	LENICTL
NUMBER	ROOM	PNL	ROOM	RACK	WIRING / CONDUIT	LENGTH
3EM	MCR	PP EM	2B-32	EBEM092NA	4#4/0&1#2G, 2 1/2 IN C	475
	2B-32	EBEM092NA	2A-24	1	4#10&1#10G, 3/4 IN C	110
	2B-32	EBEM092NA	2A-24	2	4#10&1#10G, 3/4 IN C	110
	2B-32	EBEM092NA	2A-24	3	4#10&1#10G, 3/4 IN C	110
	2B-32	EBEM092NA	2A-24	4	4#10&1#10G, 3/4 IN C	110
	2B-32	EBEM092NA	2A-24	5	4#10&1#10G, 3/4 IN C	110
	2B-32	EBEM092NA	2A-24	6	4#10&1#10G, 3/4 IN C	110
	2B-32	EBEM092NA	2C-33	1	4#10&1#10G, 3/4 IN C	100
	2B-32	EBEM092NA	2C-33	2	4#10&1#10G, 3/4 IN C	100
	2B-32	EBEM092NA	2C-33	3	4#10&1#10G, 3/4 IN C	100
4EM	MCR	PP EM	2C-91	EBEM012CB	4#1/0&1#6G, 2 IN C	255
	2C-91	EBEM012CB	2C-90A	1	4#10&1#10G, 3/4 IN C	10
	2C-91	EBEM012CB	2C-90A	2	4#10&1#10G, 3/4 IN C	10
	2C-91	EBEM012CB	2C-90A	3	4#10&1#10G, 3/4 IN C	10
	2C-91	EBEM012CB	2C-90A	4	4#10&1#10G, 3/4 IN C	10
	2C-91	EBEM012CB	2D-18	1	4#10&1#10G, 3/4 IN C	120
	2C-91	EBEM012CB	2D-18	2	4#10&1#10G, 3/4 IN C	120
	2C-91	EBEM012CB	2D-18	3	4#10&1#10G, 3/4 IN C	120
	2C-91	EBEM012CB	2D-18	4	4#10&1#10G, 3/4 IN C	120

					100A	
		<b>4</b> T	j			
CONDUIT	I	FROM	ТО	WIDING / CONDUIT	LENCTH	
NUMBER	ROOM	PNL	ROOM	RACK	WIRING / CONDUIT	LENGTH
6EM	MCR	PP EM	4D-06	EBEM014CA	(2) 4#2/0&1#8G, 2 IN C	305
	4D-06	EBEM014CA	4B-23	1	4#8&1#10G, 3/4 IN C	230
	4D-06	EBEM014CA	4B-23	2	4#8&1#10G, 3/4 IN C	230
	4D-06	EBEM014CA	4B-23	3	4#8&1#10G, 3/4 IN C	230
	4D-06	EBEM014CA	4B-23	4	4#8&1#10G, 3/4 IN C	230
	4D-06	EBEM014CA	4E-15	1	4#8&1#10G, 3/4 IN C	170
	4D-06	EBEM014CA	4E-15	2	4#8&1#10G, 3/4 IN C	170

		1ST FI	LOOR BLDG 1 TO	BLDG 40 EM WIRIN	IG	
CONDUIT	FI	ROM	-	ТО		
NUMBER					WIRING / CONDUIT	LENGTH
NOIVIDER	ROOM	PNL	BLDG ROOM	RACK		
7EM	MCR	PP-10EM	40 102B	EBEM401WA	4#350G, 3 IN C	730
	40 102B	EBEM401WA	40 102B	1	4#8&1#10G, 3/4 IN C	10
	40 102B	EBEM401WA	40 102B	2	4#8&1#10G, 3/4 IN C	10
	40 102B	EBEM401WA	40 102B	3	4#8&1#10G, 3/4 IN C	10
	40 102B	EBEM401WA	40 102B	4	4#8&1#10G, 3/4 IN C	10
	40 102B	EBEM401WA	40 204C	1	4#8&1#10G, 3/4 IN C	30
	40 102B	EBEM401WA	40 204C	2	4#8&1#10G, 3/4 IN C	30

78A, 78A

		1ST FLO	OR BLDG 1,	9, 46 EM WIRIN	IG	
CONDUIT	FRO	OM		ТО	WIRING / CONDUIT	LENGTH
NUMBER	ROOM	PNL	ROOM	RACK	WIKING / CONDOTT	LENGIA
1EM	MCR	PP EM	1B121	EBEM461NA	1#250#2G, 2 1/2 IN (	585
	1B121	EBEM461NA	1A-54	1	4#10&1#10G, 3/4 IN C	260
	1B121	EBEM461NA	1A-54	2	4#10&1#10G, 3/4 IN C	260
	1B121	EBEM461NA	1A-54	3	4#10&1#10G, 3/4 IN C	260
	1B121	EBEM461NA	1A-54	4	4#10&1#10G, 3/4 IN C	260
	1B121	EBEM461NA	1A-54	5	4#10&1#10G, 3/4 IN C	260
	1B121	EBEM461NA	1A-54	6	4#10&1#10G, 3/4 IN C	260
	1B121	EBEM461NA	1B-121	1	4#10&1#10G, 3/4 IN C	10
	1B121	EBEM461NA	1B-121	2	4#10&1#10G, 3/4 IN C	10
2EM	MCR	PP EM	1D-01	EBEM011CB	4#1/0G, 2 IN C	220
	1D-01	EBEM011CB	1D-158	1	4#10&1#10G, 3/4 IN C	160
	1D-01	EBEM011CB	1C-99	1	4#10&1#10G, 3/4 IN C	10
	1D-01	EBEM011CB	1C-99	2	4#10&1#10G, 3/4 IN C	10
	1D-01	EBEM011CB	1C-99	3	4#10&1#10G, 3/4 IN C	10
	1D-01	EBEM011CB	1C-99	4	4#10&1#10G, 3/4 IN C	10
	1D-01	EBEM011CB	1C-99	5	4#10&1#10G, 3/4 IN C	10
	1D-01	EBEM011CB	1D-64A	1	4#10&1#10G, 3/4 IN C	240
	1D-01	EBEM011CB	1D-64A	2	4#10&1#10G, 3/4 IN C	240
	1D-01	EBEM011CB	1D-64A	3	4#10&1#10G, 3/4 IN C	240
	1D-01	EBEM011CB	1D-64A	4	4#10&1#10G, 3/4 IN C	240

					40A	
		3RD F	LOOR BLDG	i 1, 9, 46 EM WIR	RING	
CONDUIT	FROM		ТО		WIRING / CONDUIT	LENGTH
NUMBER	ROOM	PNL	ROOM	RACK		
5EM	MCR	PP EM	3C-38	EBEM463CA	4#2&1#8G, 1 1/4 IN C	265
	3C-38	EBEM463CA	3D-12	1	4#10&1#10G, 3/4 IN C	70
	3C-38	EBEM463CA	3D-12	2	4#10&1#10G, 3/4 IN C	70
	3C-38	EBEM463CA	3D-12	3	4#10&1#10G, 3/4 IN C	70
	3C-38	EBEM463CA	3D-12	4	4#10&1#10G, 3/4 IN C	70
	3C-38	EBEM463CA	3B-23	1	4#10&1#10G, 3/4 IN C	250
	3C-38	EBEM463CA	3B-23	2	4#10&1#10G, 3/4 IN C	250
	3C-38	EBEM463CA	3B-23	3	4#10&1#10G, 3/4 IN C	250
	3C-38	EBEM463CA	3B-23	4	4#10&1#10G, 3/4 IN C	250
	3C-38	EBEM463CA	3B-23	5	4#10&1#10G, 3/4 IN C	250

		5TH FLO	OOR PENTHOUSE E	BLDG 1, 9, 46 EM W	/IRING	
CONDUIT		FROM		то	WIRING / CONDUIT	LENGTH
NUMBER	ROOM	PNL	ROOM	RACK		
8EM	MCR	PP-1-EM	PENTHOUSE A	EBEM095CA	4#1G, 1 1/2 IN C	405
	4D-06	EBEM095CA	PENT TR 501	1	4#8&1#10G, 3/4 IN C	200
	4D-06	EBEM095CA	PENT TR 502	1	4#8&1#10G, 3/4 IN C	200
	4D-06	EBEM095CA	PENT TR 503	1	4#8&1#10G, 3/4 IN C	130
	4D-06	EBEM095CA	PENT TR 503	2	4#8&1#10G, 3/4 IN C	130
	4D-06	EBEM095CA	PENT TR 503	3	4#8&1#10G, 3/4 IN C	130
	4D-06	EBEM095CA	PENT TR 503	4	4#8&1#10G, 3/4 IN C	130

1 EMERGENCY PANELS WIRING SCHEDULE FOR TR RACKS

CONSULTANT ISSUE FOR BID 01-16-24 Revisions:

VA FORM 08 - 6231

ARCHITECT/ENGINEER OF RECORD STAMP

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Office of Construction and Facilities Management U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL - EMERGENCY PANELS	Phase ISSUE FOR BID	Project Title  EHRM INFRAS	STRUCTUR		SUE FOR BID - 01/16/20   Project Number
WIRING SCHEDULE	IOOOL I OIK BIB	UPGRADES -		_	Building Number -
Approved: Project Director	BUILDING FULLY	Location FARGO VA HE	ALTH CAR	E SYSTEM	Drawing Number
	SPRINKLERED	Issue Date 01/16/2024	Checked WG	Drawn BX	E605

# VA TO IDENTIFY CIRCUITS TO BE REMOVED

DANIEL NIAME	LOOATIO	NA N	LINITINIO	OLIDBLII	ED EDOM		VOL TA OF		DUIO	BAAINI		NEL NAM	ΛΕ	LOCATION	MOUNTING	SLIPPI	IED FROM	VOLTAGE	BUS	MAIN
PANEL NAME	LOCATIO		UNTING	SUPPLII	ED FROM		VOLTAGE		BUS	MAIN			EBUPS 90N2	200/(11014	SURFACE	00111		120/208V. 3PH, 4\		WITCH
EBUPS-90N1			RFACE			120/2	208V. 3PH						EDUPS JUNZ							1 2/5
CKT LOAD DESCRIPTION	VA LOAD		СВ	BUS	СВ		1	/A LOAD		LOAD DESCRIPTION	CKT	CKT	LOAD DESCRIPTION	VA LOAD	CB	BUS	CB	VA LO		LOAD DESCRIPTION CKT
NO	PH A PH B	PH C CODE F	P TR A	B C	TR P	CODE	PH A	PH B	PH C		NO	NO		PHA PHB PHC	CODE P IR	A BC	IR P	CODE PHA PH	B PHC	NO
1 DDC			<del> </del> *		-					EBUPS 90N2	2		BIO-MED - 05			<del>     </del>			<u> </u>	BIO-MED - 05 2
3 IT ROOM 1ST				X	-					EBUPS 90N2	4		BIO-MED - 05	_		<del>  X</del>				BIO-MED - 05 4
5 IT ROOM 1ST			-	X	-					EBUPS 90N2	6	5 1	BIO-MED - 05			<del>  X</del>				BIO-MED - 05 6
7 VISTA IMAGING			<del>-                                     </del>		-					EBUPS 90N3	8	7	BIO - MED #1			*				SPARE 8
9 VISTA IMAGING			$\neg$	X	-					EBUPS 90N3	10	9	BIO - MED #1			<del>  x</del>				SPARE 10
11 VISTA IMAGING			$\dashv$	X	-					EBUPS 90N3	12	11	BIO - MED #1			<del>  x</del>				SPARE 12
13 VISTA IMAGING			<del>   </del>		-					EBUPS 90N5	14	13	SPARE			*				SPARE 14
15 VISTA IMAGING			$\rightarrow$	X	-					EBUPS 90N5	16	15	SPARE		<u> </u>	<del>  x  </del>				SPARE 16
17 VISTA IMAGING				X	-					EBUPS 90N5	18	17	SPARE			<del>  X</del>				WIRELESS CONTROLER 18
19 SPARE			$\dashv \dashv \downarrow$		-		d d			EBUPS 90N6	20	19	SPARE		-	*				WIRELESS CONTROLER 20
21 SPARE			$\rightarrow$	X	-					EBUPS 90N6	22	21	SPARE			<del>  x  </del>				SPARE 22
23 SPARE			$\dashv \dashv \dashv$	X	-					EBUPS 90N6	24	23	SPARE			<del>  x</del>				SPARE 24
25 SPARE			<del>                                     </del>		-					EBUPS 10S1	26	25	2C-33 IRM OUTLET			*				1B-121B RCPT 26
27 SPARE				X	-					EBUPS 10S1	28	27	2C-33 IRM OUTLET			<del>  x  </del>				1B-121B RCPT 28
29 SPARE				X	-					EBUPS 10S1	30	29	SPARE			<del>  x</del>				1B-121B RCPT 30
31 SPARE			<del>                                     </del>		-					SPARE	32	31	BC-02 IRM		<del>-     -</del>	*				BB-92 RCPT 32
33 SPARE			+	X	-					SPARE	34		BC-02 IRM			<del>  x  </del>				BB-92 RCPT 34
35 SPARE			$\dashv \dashv \downarrow$	X	-					SPARE	36		BC-02 IRM			<del>  x</del>				BB-92 RCPT 36
37 EHRM RACKS			$\dashv \dashv \downarrow$		-					SPARE	38		BC-02 IRM RCPT			*				RESERVED FOR FUTURE 38
39 EHRM RACKS			+	X	-					SPARE	40		SPARE							RESERVED FOR FUTURE 40
41 EHRM RACKS			+	X	-					SPARE	42		SPARE			x				RESERVED FOR FUTURE 42
LI II WITO COICO			1 1 1	^						OI AIL	72	'''								TESTIVED FORT STORE

	PANEL NAME	LOCATION			Ī	MOUNTI	ING	SUPP	LIED FF	ROM		VOLTAG	E	BUS	MAIN	
	EBUPS 90N3					SURFA	CE				12	0/208V. 3F	H, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			СВ		BUS		СВ			VA LOAD		LOAD DESCRIPTION	CKT
NO	EGAS BEGGIAII HOIV	PH A	PH B	PH C	CODE	P TR	Α	В	С	TR F	CODE	PH A	PH B	PH C	EOAD DECORUMENT	NO
1	PHARMACY OPTIPILL						X								OUTLET NEWQ PROCESSOR	2
3	PHARMACY OPTIPILL							X							OUTLET NEWQ PROCESSOR	4
5	PHARMACY OPTIPILL								—X						OUTLET PHARMACY	6
7	PNL EBUPS 90N4						<del>  X                                   </del>								DCPU	8
9	PNL EBUPS 90N4							X							DISK DRIVES	10
11	PNL EBUPS 90N4								—X						OUTLET	12
13	OUTLET WIREMOLD PHARMACY						<del>  x                                   </del>								OUTLET VADAT DESIGNATED	14
15	OUTLET WIREMOLD OPIPILL							X							OUTLET MICOM	16
	OUTLET UNDER FLOOR (TERMINAL)								—X						SPARE	18
19	OUTLET UNDER FLOOR (TERMINAL)						<del>  x                                   </del>								20 AMP T.L.	20
21	LIGHTS COMPUTER ROOM							X							20 AMP T.L.	22
23	ADMIN OFFICE UTLET								X						20 AMP T.L.	24
25	COMPUTER						<del>  x                                   </del>								SHUNT TRIP	26
27	ADMIN OFFICE UTLET							X							SHUNT TRIP	28
29	COMPUTER								X						SHUNT TRIP	30
31	SYST. D TAPE DRIVE						<del>  x                                   </del>								SHUNT TRIP	32
33	COMPUTER							X							SHUNT TRIP	34
35	COMPUTER								<del>X</del>						SHUNT TRIP	36
37	COMPUTER						<del>  x                                   </del>		<del></del>			**************************************			SHUNT TRIP	38
39	COMPUTER					$\neg \neg$		X							SHUNT TRIP	40
41	COMPUTER								—×						SHUNT TRIP	42

	PANEL NAME		LOCATION		М	OUN	ITING		SUPP	JED F	ROM		VOLTA	GE	BUS	MAIN	
	EBUPS 90N4				S	URF.	ACE					120	0/208V. 3I	PH, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			С	В		BUS		В			VA LOAD		LOAD DESCRIPTION	CKT
NO	- LOAD DESCRIPTION	PHA	PH B	PH C	CODE	Р	TR	Α	В	C TR	PC	ODE	PH A	PHB	PH C	LOAD DESCRIPTION	NO
1	4A-16							*							kreeren.	2C-90	2
3	3051							+	X	-						BD-02	4
5	2A-24							+		×						BA-30	6
7	2C-37	_						+		-						3C-94	8
9	1B-47							+	<del>X</del>	_						4E-19	10
11	VISTA IMG							+		×						1C-98	12
13	VISTA IMG			6888				+		_						1C-06	14
15	RCPT BB-76, BC-46							+	X	_						3C-48	16
17	208V UNDERFLOOR VISTA IMG						<u> </u>	+		×						208V UNDERFLOOR VISTA IMG	18
19	208V UNDERFLOOR VISTA IMG						<u> </u>	<del>-</del> *		_						208V UNDERFLOOR VISTA IMG	20
21							_	+	X	_							22
23								+		X							24
25								*		_							26
27							_	+	X	_			56566				28
29							<u> </u>	+		X							30
31								*		_							32
33								+	X	+							34
35								+		×							36
37								+		_							38
39							$\vdash$	+	X	+							40
41								$\perp$		×							42

	PANEL NAME		LOCATION	l	N	10UNT	ING	SUPPLI	ED FROI	<b>/</b>	VOLTAG	E	BUS	MAIN	
	EBUPS90N5					SURFA	CE			12	0/208V. 3P	H, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			СВ		BUS	СВ			VA LOAD		LOAD DESCRIPTION	СКТ
NO	LOVID BEGORIII HOIV	PH A	PH B	PH C	CODE	PT	R A	ВС	TR F	CODE	PH A	PH B	PH C		NO
1	RCPT RM 1B-65						*		-					VBA	2
3	RCPT RM 1B-65, 1A-54						$\neg$ $+$	X	- 🗆					VBA	4
5	RCPT SERVER						$\neg$ $+$	<del></del>						VBA	6
7	RCPT SERVER						-		- 🗆					VBA	8
9	RCPT SERVER VISTA IMG						$\neg$ $+$	X	- 🗆					RCPT SERVER	10
11	RCPT SERVER VISTA IMG						$\neg$ $+$	×	-					RCPT SERVER	12
13	RCPT SERVER						<del> </del>		- 🗆					RCPT SERVER	14
15	RCPT SERVER						$\neg$ $+$	X	- 🗆					RCPT SERVER	16
17	CORE SWITCHES 6509						$\neg$ $+$	×	-					RCPT SERVER	18
19	CORE SWITCHES 6509						-		- 🗆					RCPT SERVER	20
21	CORE SWITCHES 6509						$\neg$ $+$	X	- 🗆					RCPT SERVER	22
23	CORE SWITCHES 6509						$\neg$ $+$	×	-					RCPT SERVER	24
25	CORE SWITCHES 6509						<del> </del>		- 🗆					RCPT SERVER	26
27	CORE SWITCHES 6509						$\neg$ $+$	X	- 🗆					RCPT SERVER	28
29	CORE SWITCHES 6509						$\neg \vdash$	<b>——</b>	-					RCPT 4D-02, 1A-54	30
31	CORE SWITCHES 6509						-		-					RCPT 4D-02	32
33	RCPT RM 2A-24						$\neg$ $\vdash$	X	-					RCPT 4D-02	34
35	RCPT RM 2A-24				***		$\dashv$	<b>&gt;</b>	-					RCPT 2A-24	36
37	VBA						-		-					VBA	38
39	VBA						$\neg$ $+$	X	-					VBA	40
41	VBA						$\neg \vdash$	×	-					VBA	42

	PANEL NAME		LOCATION	l	M	OUNTI	NG	SUPPL	IED F	RO		VOLTAG	E .	BUS	MAIN	
	EBUPS 90N6				S	URFA	CE				120	/208V. 3P	PH, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			СВ		BUS	CE	3			VA LOAD		LOAD DESCRIPTION	CKT
NO	LOAD DESCRIPTION	PH A	PH B	PHC	CODE	Р	TR A	ВС	TR	Р	CODE	PH A	PH B	PH C	LOAD DESCRIPTION	NO
1	SPARE						$\exists$	<del> </del>							SPARE	2
3	SPARE						$\neg$	X							SPARE	4
5	SPARE							X							SPARE	6
7	SPARE						$\neg \mapsto$	$\leftarrow$							SPARE	8
9	SPARE						$\neg$ $\vdash$	X							SPARE	10
11	SPARE						$\neg$	X							SPARE	12
13	SPARE						$\dashv$	$\leftarrow$							SPARE	14
15	SPARE						$\neg$	X							EAST RACK	16
17	SPARE						$\neg$	X							EAST RACK	18
19	RCPT UNDER PNL						$\neg \mapsto$	$\leftarrow$							QUEST LINE + PAGING	20
21	CISCO PHONE RACK							X							WEST RACK	22
23	CISCO PHONE RACK						$\neg$	X							WEST RACK	24
25	SPARE				1		$\neg \rightarrow$	$\leftarrow$							SPARE	26
27	SPARE							X							SPARE	28
29	SPARE						$\neg$	X							SPARE	30
31	SPARE						$\dashv$	<del></del>							SPARE	32
33	SPARE						$\neg$	X							SPARE	34
35	SPARE							X							SPARE	36
37	SPARE						$\neg \vdash \downarrow$	<del></del>							SPARE	38
39	SPARE						$\neg$	X							SPARE	40
41	SPARE							X							SPARE	42

	PANEL NAME		LOCATION		M	NITNUC	IG S	SUPPI	LIED I	FR		VOLTAG	SE .	BUS	MAIN	
	EB90N1				SI	JRFAC	E				120	0/208V. 3F	PH, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			СВ	В	US	CE	3			VA LOAD		LOAD DESCRIPTION	CKT
NO	LOND BEGON HOIV	PH A	PH B	PHC	CODE	P TF	R A	ВС	TR	PC	ODE	PH A	PH B	PH C	LOND BECOKII HOIV	NO
1	UPS#1						X								SPARE	2
3	UPS#1							X							SPARE	4
5	UPS#1							X							SPARE	6
7	UPS#2						<del>    X  </del>								SPARE	8
9	UPS#2							X							SPARE	10
11	UPS#2						_	×							SPARE	12
13	UPS#3						<del>-  x-</del>								SPARE	14
15	UPS#3						$\vdash$	_X							SPARE	16
17	UPS#3						$\neg$	×							SPARE	18
19	DDC TXFR SWITCH						<del>-  x-</del>								SPARE	20
21	SPARE						$\vdash$	_X							SPARE	22
23	SPARE						_	X							SPARE	24
25	SPARE						<del>   x  </del>								SPARE	26
27	SPARE						1	<del>X</del> _							SPARE	28
29	SPARE						1	X							SPARE	30
31	SPARE						<del>-  x</del>								SPARE	32
33	SPARE							X							SPARE	34
35	SPARE							X							SPARE	36
37	SPARE						<del>   x</del>								SPARE	38
39	SPARE						1	_X		$\Box$					SPARE	40
41	SPARE		0.0.0.0.0.				1	— х							SPARE	42

	PANEL NAME		LOCATION			NOON.	TING		SUP	PLIE	D FRC	M		VOLTAGE	E	BUS	MAIN	
	EB90N3				;	SURF	ACE						120	208V. 3PH	⊣, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			CE	В		BUS		CE	3			VA LOAD		LOAD DESCRIPTION	Ck
NO		PH A	PH B	PH C	CODE	Р	TR	Α	В	С	TR	Р	CODE	PH A	PH B	PH C		N
1	SPARE							<del> </del>									ROOF TEL RM DACU-46-3	
3	SPARE								X								ROOF TEL RM DACU-46-3	
5	SPARE						-			<del>-X</del>							ROOF TEL RM DACU-46-3	
7	UPS BYPASS						-	<del>-</del>									SPARE	
9	UPS BYPASS						-		<del>X</del>								SPARE	
11	UPS BYPASS									<del>-x</del>							SPARE	
13	TEL SERVER RM DACU-46-3							<del>-</del>   <del>-</del>									DACU-IS OUTDOOR UPS A/C	
15	TEL SERVER RM DACU-46-3						-		X	<del></del>							DACU-IS OUTDOOR UPS A/C	
17	TEL SERVER RM DACU-46-3									<del>-x</del>							DACU-IS OUTDOOR UPS A/C	
19	SPARE							<del>-</del> k-		<del></del>							DACU-IS INDOOR UPS A/C	
21	SPARE								X								DACU-IS INDOOR UPS A/C	
23	SPARE									<del>-x</del>							DACU-IS INDOOR UPS A/C	
25	?							<del>-</del>									SPARE	
27	?								<del>X</del>								SPARE	
29	WALL RCPT									<del>-x</del>							BIO MED	
31	WALL RCPT							<del>-</del>									BIO MED	
33	SPARE								X								BIO MED	
35	SPARE						<u> </u>			<del>-x</del>							EHRM RACKS	
37	EHRM RACKS							<del>-</del>		<del></del>							EHRM RACKS	
39	EHRM RACKS								X	<del></del>							EHRM RACKS	
41	EHRM RACKS		16666							<del>-X</del> -							EHRM RACKS	

	PANEL NAME		LOCATION			MOU	INTINC	Э	SUF	PPLIED FR	OM			VOLTA	GE.	BUS	MAIN	
	EB46NTEL #1					SUR	RFACE	Ē					12	0/208V. 3	3PH, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			CE	3		BUS		CE	3			VA LOAD		LOAD DESCRIPTION	CKT
NO	LOAD BEGORII HOIV	PH A	PH B	PH C	CODE	Р .	TR	Α	В	С	TR	Р	CODE	PH A	PH B	PH C	LOVE BECOKE HOLD	NO
1	A/C UNIT E						-	X									SPARE IN J-BOX CEILING	2
3	A/C UNIT E								X								SPARE IN J-BOX CEILING	4
5	A/C UNIT E									—X							A/C UNIT W	6
7	CONDENSING UNIT OUTSIDE							<del>  x                                   </del>									A/C UNIT W	8
9	CONDENSING UNIT OUTSIDE						_	1	X								A/C UNIT W	10
11	CONDENSING UNIT OUTSIDE						$\neg$			—х							A/C UNIT W	12
13	LIGHTS							<del>  x                                   </del>									RCPT	14
15	LIGHTS								X								RCPT	16
17	LIGHTS									—X							FAN	18
19	LIGHTS							<del>  x                                   </del>									PYROTRONICS	20
21	LIGHTS								X								PYROTRONICS	22
23	LIGHTS				30		_			—X							N.E. BUTT HUT	24
25	LIGHTS						$\neg$	<del>  x                                   </del>									N.E. BUTT HUT	26
27	PAGING RCPT								X									28
29	PAGING RCPT						_			—X								30
31							$\neg$	<del>  x                                   </del>										32
33									X									34
35							$\neg$			—х								36
37								<del>  x                                   </del>										38
39								-	X									40
41										—х								42

	PANEL NAME		LOCATION		MC	AITAUC	IG	SUPF	PLIED	FRC	М	VOLTAC	GE	BUS	MAIN	
	EB46NTEL #2				SU	JRFAC	E				12	0/208V. 3F	PH, 4W			
CKT	LOAD DESCRIPTION		VA LOAD			СВ		BUS		СВ			VA LOAD		LOAD DESCRIPTION	CKT
NO	EOAD DESCRIPTION	PH A	PH B	PH C	CODE	P TR	: A	В	С	TR F	CODE	PH A	PH B	PH C	LOAD BESCKII HON	NO
1	TRANSTECTOR						<del>                                     </del>		$\neg$						HALON	2
3	TRANSTECTOR						$\vdash$	X								4
5	TRANSTECTOR						$\vdash$		<del>-X</del>						HALON	6
7	SPARE						<del>                                     </del>									8
9	SPARE						1+	X							SURGE PROTECTION	10
11	SPARE						1+		<del>-X</del>						SURGE PROTECTION	12
13	TRANSTECTOR						<del>                                     </del>					_			SURGE PROTECTION	14
15	TRANSTECTOR						1+	X							BATTERY CHARGER #1A	16
17	TRANSTECTOR						1+		<del>-x</del>						BATTERY CHARGER #1A	18
19	TRANSTECTOR						<del>]                                    </del>								BATTERY CHARGER #1A	20
21	TRANSTECTOR						1-+	X	-						BATTERY CHARGER #2A	22
23	TRANSTECTOR						1+		<del>-x</del>						BATTERY CHARGER #2A	24
25	ROOF A/C #4	-					<del>1 *</del>		-						BATTERY CHARGER #2A	26
27	ROOF A/C #4						1-+	X	-						CAB. OIR A CORE	28
29	ROOF A/C #4						1-		<del>-X</del>						CAB. OIR B CORE	30
31							<del>1 *</del>		$\overline{}$							32
33							1+	X								34
35							1+		<del>-X</del>							36
37							<del>                                     </del>		$\dashv$							38
39							1+	X								40
41							14		_X	$\neg$						42

		CONSULTANT
ISSUE FOR BID	01-16-24	
Revisions:	Date:	

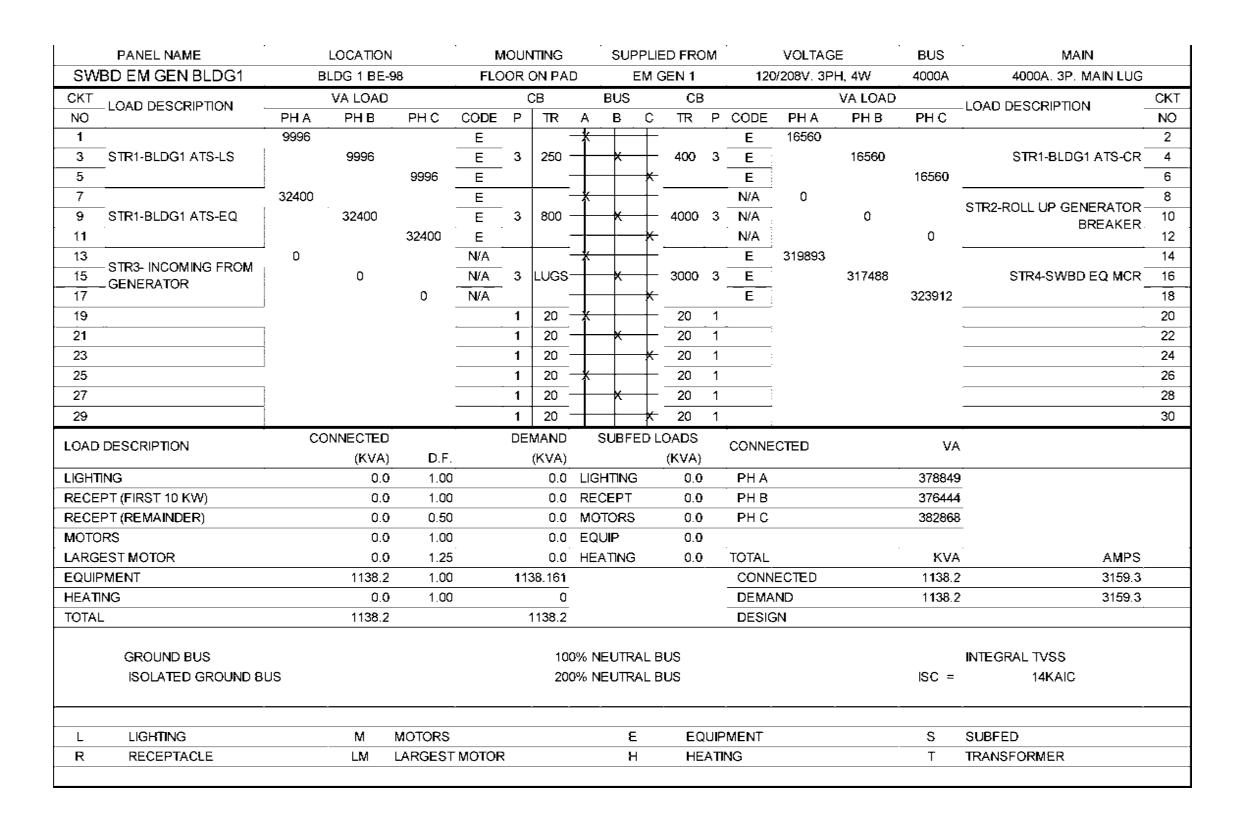
	<b>*</b> /
-Bana (	
BANCROFT ARCHITECTS + ENGINEERS	

ARCHITECT/ENGINEER OF RECORD STAMP 3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 WALTER J. GROSZKO THE 1062-036261 www. bancroft-ae.com Bancroft Project No: 22-113



				IS	SUE FOR BID - 01/16/2024
ELECTRICAL - BC-50 DATA CENTER	ISSUE FOR BID	Project Title  EHRM INFRAS	TDI ICTI IDE		Project Number 437-21-210
PANEL SCHEDULES DEMO	IOOOL I OIY DID	UPGRADES - T			Building Number 1-9-46
Approved: Project Director	BUILDING FULLY	Location FARGO VA HEA	ALTH CARE	SYSTEM	Drawing Number
	SPRINKLERED	Issue Date 01/16/2024	Checked WG	Drawn BX	ED606

VA FORM 08 - 6231



SWBD NAME	LC	OCATION		N	IOUN	NTING		SUPI	PLIED F	ROM	/		VOLTAG	E	BUS	MAIN	
SWBD EQ MCR	BLDG 1	UPS RM	BE-97	5	SURF	ACE		EM G	EN & U	TILIT	Υ	120/	208V. 3P	H, 4W	3000A	3000A. 3P. MAIN LUG	3
CKT LOAD DESCRIPTION -	V	/A LOAD			(	СВ	E	BUS		СВ				VA LOAD		LOAD DESCRIPTION	С
NO	PH A	PHB	PHC	CODE	Р	TR	Α	В	СТ	R	Р	CODE	PHA	PH B	PHC	- LOAD DESCRIPTION	N
1 3 STR1-TRANSFORMER MCR 5 FEEDER	0	0	0		3	3000 -	*	×	30	00	3		0	0	0	STR2-EM GENERATO FEEDE	
7 9 STR3-PP 2 EM MCR	83133	80728	87152	E E E	3	500 - -	*	X	30	00	3	E E				STR4-UPS B MAINT BYPASS SET AT 0A UNDER NORMA CONDITION	L_
13 15 STR3-UPS B 17	34000	34000	34000	E E	3	700 - -	*	×	70	00	3	E E	55000	55000	55000	STR4-MONOLYTHIC UPS MOD	
19 21 MOD2 STR3-MONOLYTHIC UPS A	55000	55000	55000	E E E	3	700 -	*	×	— 70 * _	10	3 _	Y	0	0	0	STR4-UPS A MAINT BYPASS SET AT 0A UNDER NORMA CONDITION	L :
25 27 STR3-PP EM 29	92760	92760	92760	E . E .	3	1000 -	*	×		0 0 0	1 1 1						
31 33 35					1 1 1	20 - 20 - 20 -	*	×	2 2 2 2	0	1 1 1	***************************************					
37 39 41					1 1 1	20 - 20 - 20 -	*	×	- 2 - 2 + 2	0 .	1 1 1						
LOAD DESCRIPTION	CON	NECTED (KVA)				MAND (KVA)	S	UBFE	D LOAI		(	CONNEC	TED		VA	<b>\</b>	
LIGHTING		0.0	1.00			0.0	LIGH	TING		0.0		PH A			319893	3	
RECEPT (FIRST 10 KW)		0.0					REC			0.0		PHB			317488	_	
RECEPT (REMAINDER)		0.0					MOT			0.0		PH C			323912	2_	
MOTORS		0.0					EQU			0.0	_						
ARGEST MOTOR		0.0					HEA	HNG		0.0		TOTAL	CTE D		KVA		
EQUIPMENT HEATING		961.3 0.0			91	61.293					-	CONNE			961.3 961.3		
TOTAL		961.3				961.3					-	DESIGN		-	901.3	2000.	+
GROUND BUS ISOLATED GROUND BUS		331.0				100			L BUS L BUS		-	520101	•		ISC =	INTEGRAL TVSS 14KAIC	
L LIGHTING R RECEPTACLE			MOTORS LARGEST	МОТОР	•			E		EQU HEA		IENT			S	SUBFED TRANSFORMER	

	PANEL NAME	L	OCATIO	N	N	MOUN	ITING		SUPF	PLIE	D FRO	DM_		VOLTA	GE	BUS	MAIN	
	PP2 EM MCR	EM GE	N ROOM	1 BE-98	,	SURF.	ACE		SWE	BD E	Q MC	R	120	/208V. 3F	PH, 4W	750A	750A 3P CB	
CKT	LOAD DESCRIPTION	١	VA LOAE	)		C	В	Е	BUS		CE	3			VA LOAD		LOAD DESCRIPTION	CKT
NO		PH A	PH B	PH C	CODE	Р	TR	A	В	С	TR	Р	CODE	PH A	PH B	PH C		NO
1		30815			E		-	*		+	25	1	M	1656			FPS-1, POLISHER	. 2
3	PP 3 EM MCR		31300		E	3	500 -		*	+			M		440		-	4
5				30880	E_	ļ				*	15	3	М			440	CACP-1, CHARGE AIR COOLER	
7		14400			М			*	1.	+ [			M	440				8
9	GR-1, OUTDOOR RADIATOR		14400		M	3	175 -		X		25	1	M		1656		DT-1 P1 DAY TANK	
11				14400	M	ļ			1	*	25	1.	M			0	DT-1 P2 DAY TANK	
13	·	6666			H		-	*	1.	T	30	1	M	1920			DT-1 RETURN PUMP	- 14
15	_EUH-1 _		6666		<u>H</u>	3	60 -		X	t			H		6666			16
17				6666	<u>H</u>	ļ		]	1	*	60	3	H			6666	EUH-2	
19	0.	2100	0.400		М		-	*	1,	T		ļ	H	6666	2422		-	20
21	EF-G1		2100	2400	M	3	35 -		1				М		2100	0.400	00	22
23		0000		2100	<u>M</u>	<u> </u>		Ţ		*	35	3	М	0400		2100	EF-G2	
25	05.04	3000	2000		M	_	-			T			M	2100	0040			26
27	_SF-G1 _		3000	0000	M	3	50 -		1		70	١ ,	M		2940	00.10		28
29		00.40		3000	M	<u> </u>				<b>*</b>	70	3	M	00.40		2940	CRAC-3 UPS ROOM (50%)	
31	A COLLO LIDO DOCAL (50%)	2640	00.40		M		-	1	1,	$\top$ $ $			M	2940	00.40			32
33	_ACCU-3 UPS ROOM (50%)		2640	00.40	M.	3	60 -		1	Ţ	70		M		2940	00.10		34
35		0040		2640	M	-		Ţ		*	70	3	M	80.45		2940	CRAC-4 UPS ROOM (50%)	
37	- A COLL A LIDO DOCAL (50%)	2640	00.40		M		-	_	Ţ,	T ŀ			<u> </u>	2940	500		OENEDATOR ORACE HEATER	38
39	ACCU-4 UPS ROOM (50%)		2640	0040	M	3	60 -		1		20	1	H		500	0000	GENERATOR SPACE HEATER	
41	BATTE BY CHARGED	4000		2640	, M.	١, .		,			20	   .	H	00		9000	GEN JACKET WATER HEATER	
43	BATTERY CHARGER	1920	200		E	1	20 -	$\uparrow$	¥	Ι	20	1.	M	90	400		GEN JACKET PUMP RM BE-97 LIGHTS	44
45	RM BE-31A LIGHTS		200	400	. <u>L</u> .	1	20 -		$\uparrow$	T	20		- <u>-</u>		180	200		
47	RM-BE-31A RCPT FUEL CONTROL PNL	200		180	R	1	20 -	,			20	1	R	100		200	RM BE-98 LIGHTS RM BE-97 RCPT	48
49 51	RCPT RADIATOR, FUEL TANK	200	180		E	1	20 - 20 -	X		┸┞	20 20	1	R	180-	180		RM BE-98 RCPT	
51 53	RCPT ACCU1, 2		160	180	R	1	20 -		1		20	1			160	180	RCPT, ACCU-3, 4	
55	RCF I ACCOT, 2			100	R 		20 -	v			20	'   1	R			100	RCF 1, ACCU-3, 4	56
57						1	20 -	$\hat{\perp}$	$\downarrow$		20		!					58
59					İ	1 1	20 -		<u> </u>		20	╎.					: 	60
ວອ		CON	VECTED			<u>.</u>			<u> </u>	1		ļ !	i					00
LOA	D DESCRIPTION	COM	NECTED (KVA)				MAND (KVA)	50	JBFE				CONNE	CTED		VA		
LIGH	TING		0.7	1.00		,	· · · ·	LIGH	ITING	Ī	(KVA 0.1		PH A		-	83133		
	EPT (FIRST 10 KW)		1.1					REC			0.2		PHB			80728		
	EPT (REMAINDER)		0.0					MOT		<u> </u>	0.3		PHC			87152	4	
MOT	<u> </u>		105.2				105.2				0.4						J	
	GEST MOTOR		0.0					HEA.			0.5		TOTAL		<del></del> ,	KVA	AMPS	•
	IPMENT		95.5			9	5.515							ECTED		251.0		
HEA			50.0				9.996						DEMA			252.5		
TOTA			252.5		•		252.5						DESIG					•
																	1	
	UND BUS									L BI	US						INTEGRAL TVSS	
	_ATED GROUND BUS									L BI	US					ISC =	35KAIC	
	LICHTING			MOTO	00				_	!	F-	OL 115	ントルアト・エ			c	CUREED	
L R	LIGHTING DECERTACIE			MOTOF		TOD			E				PMENT			S	SUBFED	
	RECEPTACLE		LM	LARGE	SIMO	IUR			Н		H	EAT	ING			Т	TRANSFORMER	

10

PANEL NAME		LOCATION			MOU	√∏NG		SI	JPPL	IED FR	OM		VOLTAG	iE	BUS		MAIN	
PP3 EM MCR		MCR 4E-19	<u> </u>		SUR	ACE		Į.	PP-2	ЕМ МС	R	12	0/208V. 3P	H, 4W	500A		500A. 3P. M	.C.B.
CKT LOAD DESCRIPTION .		VA LOAD				CB		BUS	3	С	В			VA LOAD		LOAD DESC	RIPTION	Ck
NO ESTE SESSIMI HOIT	PH A	PHB	PHC	CODE	Р	TR	Α	В	С	TR	Р	CODE	PH A	PH B	PHC		7111 11011	N
	155			E			<del>                                     </del>	+		•		M	7980					2
3 PP ELMCR		820		E	3	200	$\vdash$	<del>- ×</del>		175	3	M		7980			CR/	AC-2(50%) 4
5			400	E			廾		<del>- ×</del>			_ M			7980			
7	7260			M	_		<del>                                     </del>					M	7260					8
9 ACCU-1(50%)		7260		M	3	175	H	<del>- ×</del>		175	3	M	_	7260			ACC	CU-2(50%) 1
11			7260	M			廾		<del>- ×</del>			M			7260			1:
13	7980			M			<del>                                     </del>		-	20	1	R	180				RCPT	ACCU1, 2 1
15 CRAC-1 (50%)		7980		M	3	175	$\vdash$	<del>-  </del>	-	20	1							11
17			7980	M			$\vdash$	-	<del>-</del> ×	20	1							1:
19					1	20	<del>                                     </del>		-	20	1		_					2
21					1	20	廾	<del>- ×</del>		20	1		_					2
23					1	20	$\vdash$		<del>-</del> ×	20	1							2
25					1	20	<del>                                     </del>		$\dashv$	20	1							2
27					1	20	$\vdash$	<del>- ×</del>	-	20	1		_					2
29					1	20	$\vdash$		<del>- ×</del>	20	1							3
31					1	20	<del>                                     </del>		-+	20	1		_					3;
33					1	20	$\vdash$	<del>-</del> ×	$\dashv$	20	1							3
35					1	20	廾		<del> </del>	20	1							3
37					1	20	<del>                                     </del>		-	20	1							3
39					1	20	廾	<del> </del>	_	20	1							4
41					1	20		$\pm$	×	20	1							4
LOAD DESCRIPTION	co	NNECTED		-	С	EMAND		SUB	FED	LOADS		CONNE	CTED		VA	1		
EGAS SEGGIAI HOIT		(KVA)	D.F.			(KVA)				(KVA	)	001411	UILD		*,	•		
LIGHTING		0.0	1.00	l		0.0	LIC	SHTIN	G	0.0		PH A			3081	5		
RECEPT (FIRST 10 KW)		0.2	1.00	   		0.2	RE	CEPT	Γ	0.0		PH B			31300	o .		
RECEPT (REMAINDER)		0.0	0.50			0.0	MC	OTORS	S	0.0		PH C			30880			
MOTORS		91.4	1.00			91.4	EC	QUIP		0.0						_		
LARGEST MOTOR		0.0	1.25			0.0	HE	ATIN(	G	0.0		TOTAL			KVA	4		AMPS
EQUIPMENT		1.4	1.00	l		1.375						CONN	<b>IE</b> CTED		93.0	)		258.1
HEATING		0.0	1.00			0						DEMA	\ND		93.0	)		258.1
TOTAL		93.0				93.0						DESK	3N					
														•		•		
GROUND BUS						100%	6 NEI	UTRAI	L BUS	3						INTEGRAL 1	VSS	
ISOLATED GROUND BUS	3					200%	6 NE	UTRAI	L BUS	3					ISC =		14KAIC	
L LIGHTING		M	MOTORS						E	F	OLUE	MENT			s	SUBFED		
R RECEPTACLE		-	LARGES1						<u>-</u>		EATI					TRANSFOR	MFR	
. NEOLI MOLE			- " (OFO	MOION					1.1	1 1	_/\	. 10				11011401 011	*IEI3	

PANEL NAME		LOCATION			MITMUOI		201	PL <b>IED</b> I	FRUIVI			VOLTAG		BUS		MAIN	
PP EL MCR				S	URFACE	Ξ					120	/208V. 3PI	H, 4W	100A		100A. 3P. M.C.B.	
CKT LOAD DESCRIPTION		VA LOAD			СВ		BUS		СВ	}	-		VA LOAD		- -LOAD DES	CRIPTION	С
NO ESTABLISHMENT	PH A	PH B	PHC	CODE	P TR	Α	В	С	TR	Р	CODE	PH A	PH B	PHC		511. H511	١
1 INERGEN PNL RM 4E-22	15			E	1 20	X		+	20	1	L	20	-		<u> </u>	RM 4E-22 LIGHTS, RCPT	Γ
3 RM 4E-23 LIGHTS		20		L	1 20		<del>-   x -</del>	+	20	1	L.		800			DATA CENTER LIGHTS	}
5 CORR 4E-20, 21 LIGHTS			320	L	1 20	_		<del>- k</del>	20	1	L.			80	ELECTR	IC CLOSET 4E-19 LIGHTS	}
7 EPO DATA CENTER	40			E	1 15	_ <del>x_</del>		+	20	1	Е	80				VAV POWER SUPPLY	/
9					1 20	_	<del>-   x -</del>	+	20	1							
11					1 20	_		<del>- k</del>	20	1							
13	-				1 20	_ <del>x_</del>		+	20	1							
15					1 20	_	<del>-   x -</del>	+	20	1							
17					1 20			<del>- k</del>	20	1							
19	i				1 20	<del>-   x -</del>		+	20	1							
21					1 20		<del>- x</del> -	+		1	·						
23				-	1 20	_		<del>- k</del>	20	1							
25	<u>.</u>				1 20	- <del>  x</del> -		-+	20	1							
27					1 20		<del>-   x -</del>	+	20	1							
29					1 20	-		<del>- k</del>	20	1							
31	j				1 20	- <del> </del>			20	1	<del></del>				-		
33				-	1 20	_	<del>-   x -</del>	$\rightarrow$	20	1							
35					1 20	_		<del></del>		1	<del></del>						
37	j				1 20	- <del>  x</del>		+	20	1	·						
39				-	1 20	-	<del>- x</del> -	+	20	1							
41					1 20			<del>- k</del>	20	1							
OLD DECORPORATION	CC	ONNECTED			DEMAND	)	SUBFEC	LOAD	S	_	2011150						•
LOAD DESCRIPTION		(KVA)	D.F.		(KVA				(KVA)	)	CONNEC	SIED		VA	4		
LIGHTING	•	1.2	1.00			2 LIGH	ITING	-	0.0		PHA		<del>-</del>	155	- 5		
RECEPT (FIRST 10 KW)		0.0	1.00			REC			0.0		PHB			820			
RECEPT (REMAINDER)		0.0	0.50	•		MO1			0.0		PHC			400	_		
MOTORS		0.0	1.00			EQL			0.0						_		
ARGEST MOTOR		0.0	1.25	•		HEA			0.0		TOTAL			KVA	<b>\</b>	AMPS	}
EQUIPMENT		0.1	1.00		0.13		··· · <del>-</del>				CONNE	CTED		1.4		3.8	
HEATING		0.0				<u></u>				-	DEMAN			1.4		3.8	
TOTAL		1.4		-	1.4	_				-	DESIGN						
<u> </u>				•													
GROUND BUS						100% N	IEUTRAL B	US							INTEGRAL	TVSS	
ISOLATED GROUND BU	S						EUTRAL B							ISC =		14KAIC	
									-						_		
L LIGHTING		~	MOTORS				E				MENT			_ S	SUBFED		
R RECEPTACLE		LM	LARGEST	MOTOR			Н		HE	EΑΠ	NG			T	TRANSFOR	RMER	

PANEL NAME	L	OCATIO	N	N	10UN	TING		SUPI	PLIE	D FRO	MC		VOLTA	GE	BUS	MAIN	
PP EM	M	CR BE-3	1B	:	SURF	ACE		PP	3 EN	1 MCF	₹	120	0/208V. 3	PH, 4W	1000A	1000A, 3P, 4W	
CKT LOAD DESCRIPTION	١	/A LÓAE	)	•	С	В	В	US		ĊE	В			VA LÓAD		LOAD DESCRIPTION	CK.
NO	PHA	PH B	PH C	CODE	Р	TR .	A	в	С	TR	Р	CODE	PH A	PH B	PH C	PLOAD BLOCK!! HOW	NC
1	4800			E		_	<del>*                                    </del>		+			E	12000			•	2
3 PNL EBEM095CA		4800		Е	3	100 —	<del>                                     </del>	<del>×</del>	+	150	3	E		12000		PNL EBEM0140	A 4
5			4800	E					<del> </del>			Ε			12000		6
7	4800			E		<u> </u>	*		<del> </del>	-		E	9360				8
9 PNL EBEM463CA		4800		E	3	100 —		X	+	150	3	E		9360		PNL EBEM0120	B 10
1			4800	E					<del> </del>	_		Ε			9360		12
13	9360			Е			*		+			Ε	9360				14
5 PNL EBEM092NA		9360		E	3	150 —		X	+	150	3	E		9360		PNL EBEM0110	B 16
17			9360	. E					<del>   </del>			_ E			9360		18 
9	9360	,		E		_	*		+			E	9360				20
1 PNL EB461NA		9360		E	3	150 -		X	+	150	3	E		9360		PNL EBEM401W	
3			9360	E					+			E			9360		24
25	24360			. Е			*	$\vdash$	+	20	1						26
7 PNL BASEMENTEM		24360		E	3	400 —		<del>k</del>	+ $ $	20	1						28
29			24360	E					*	20	1						30
31					1	20 —	*		+ $ $	20	1						32
33					1	20 —		×	+	20	1						34
85					1	20 —			*	20	1	.					36
7					1	20 —	*-		+	20	1						38
9					1	20 —		<del>K</del>	+	20	1						40
11					1	20 —			*	20	1	_					42
13					1	20 —	*		+	20	1						44
15					1	20 —		<del>X</del>	+	20	1	.					46
17					1	20 —			*	20	1	.					48
19					1	20 —	*-		+	20	1						50
51					1	20 —		<del>*</del>	+	20	1						52
53					1	20 —			╼	20	1						54
55					1		*		+1			E					56
57					1		<del>                                     </del>	*	<del> -</del> -		3	E				SF	D 58
59					1	20 —			*			E					60
DAD DESCRIPTION	CON	NECTED				IAND	SU	BFE		ADS		CONNE	CTED		VA		
		(KVA)			(	KVA)				(KVA	.)					•	
GHTING		0.1					LIGHT			0.1		PHA			92760	u.	
ECEPT (FIRST 10 KW)		0.2				0.2				0.2		PHB			92760		
ECEPT (REMAINDER)		0.0					MOTO			0.3		PH C			92760	! -	
OTORS		0.3					EQUIF			0.4		TOTA			142.11		
ARGEST MOTOR		0.0			_		HEAT	ING		0.5		TOTAL			KVA	·	
QUIPMENT		278.7			2	78.68							ECTED		278.3	·	
EATING		0.5		l		0.5						DEMA			279.8	776	.6
OTAL		279.8				279.8						DESIG	SN				
JND BUS									AL E							INTEGRAL TVSS	
ATED GROUND BUS									\L E	BUS					ISC =	14KAIC	
L LIGHTING		M	МОТОР	RS			<u> </u>	E		E	QUII	PMENT			S	SUBFED	
R RECEPTACLE			LARGE		OR		-	H			EAT				T	TRANSFORMER	
		-141		J. 1810 I	<b>₩</b>	-		- ' '		- ''					•		

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD   STAMP	Office of	Drawing Title  ELECTRICAL - DATA CENTER PANEL	Phase	Project Title	Project Number 437-21-21
			THE THE PROPESSION OF THE PROP	Construction and Facilities	SCHEDIII ES	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	Building Number 1-9-46
			3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362  Northbrook in the control of the control o	Management	Approved: Project Director	BUILDING FULLY	Location FARGO VA HEALTH CARE SYSTEM	Drawing Nun
ISSUE FOR BID Revisions:	01-16-24 Date:		BANCROFT ARCHITECTS + ENGINEERS  Www. bancroft-ae.com Bancroft Project No: 22-113  OF ILLINORITY   U.S. Department of Veterans Affair	rs	SPRINKLERED	Issue Date Checked Drawn 01/16/2024 WG BX	E	

# KYCCG PROJECTS\2002\22-113 437-21-210 Fardo ND EHRM Tier 2 (VISN 23 TO)\400- DesDocs\40

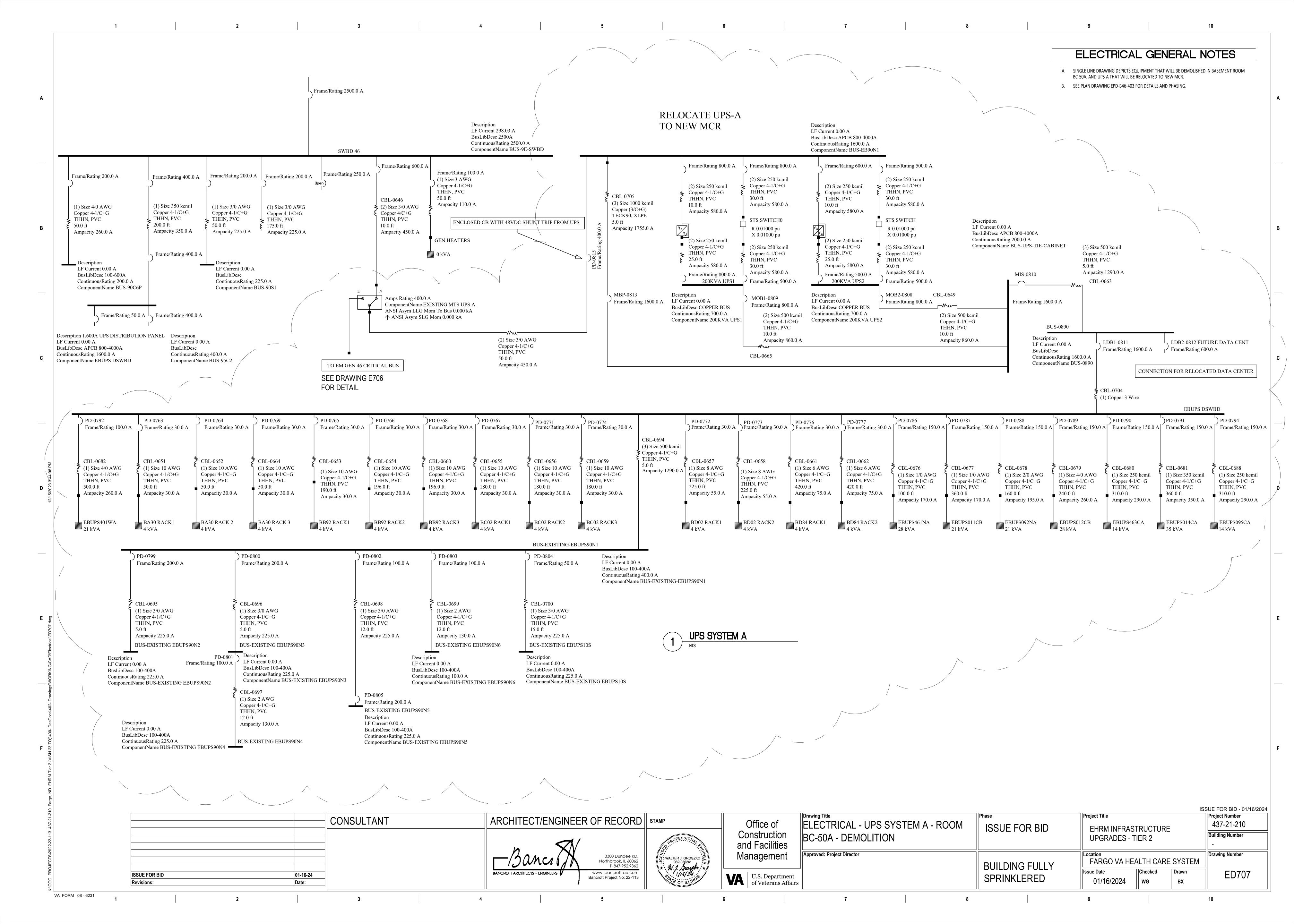
	PANEL NAME	L	OCATIOI	N	М	OUN	TING		SL	JPPLI	ED F	ROM		VOLTAC	3E	BUS	MAI	N	
	UPS B	UP	S RM BE	-97		FLOC	)R		S	WBD	EQ N	<b>I</b> CR	12	0/208V. 3F	PH, 4W	N/A	N/A	١	
CKT	LOAD DESCRIPTION	,	VA LOAE	)		С	В		BUS	3		СВ			VA LOAD		LOAD DESCRIPTION		CKT
NO	LOAD DESCRIPTION	PH A	PH B	PH C	CODE	Р	TR	Α	В	С	TF	R P	CODE	PHA	PH B	PH C	LOAD DESCRIPTION		NO
1	UPS BUSWAY B, DATA	26666			E			<del>  X</del>			-								2
- R	CENTER		26666		E	3	250		<del>-</del> ×		-								4
5	<u> </u>			26666	Е					<del>-  </del>									6
7								<del>                                     </del>			-								8
9									<del> </del>		-								10
11										<del> </del>	-								12
13								<del>                                     </del>			-								14
15									<del> </del>		-								16
17										×	-								18
LOAD	DESCRIPTION	CON	NECTED			DEM	IAND		SUBI	FED L	OAD	S	CONN	ECTED		VA			
			(KVA)			(	KVA)				(K\								
LIGHT			0.0						HTIN		0.0		PH A			26666	_		
	PT (FIRST 10 KW)		0.0				0.0		CEPT		0.0		PH B			26666	_		
	PT (REMAINDER)		0.0						TOR	S	0.0		PH C			26666			
МОТС			0.0					EQ			0.0								
	EST MOTOR		0.0						ATIN	3	0.0	0	TOTAL			KVA		AMPS	
	PMENT		80.0			7	9.998							NECTED		80.0		222.1	
HEAT			0.0				0	l					DEM			80.0	)	222.1	
TOTA	-		80.0				80.0						DESI	GN					
							4.	2007			D. 10						INTEGRAL TO		
	GROUND BUS									RAL						10.0	INTEGRAL TVSS		
	ISOLATED GROUND B	05					20	JU%	NEUI	RAL	ROS					ISC =	14KAIC		
ı	LIGHTING		М	MOTOR	9					E		EQ!!	IPMENT			s	SUBFED		
R	RECEPTACLE				ST MOTO	.D			+	<u>-</u> Н		HEA				T	TRANSFORMER		
П	REGERIAGLE		LIVI	LARGE	3 I WIOTO	'I'\				<u>П</u>		пЕА	IIIVG			'	INANSFURIVIER		

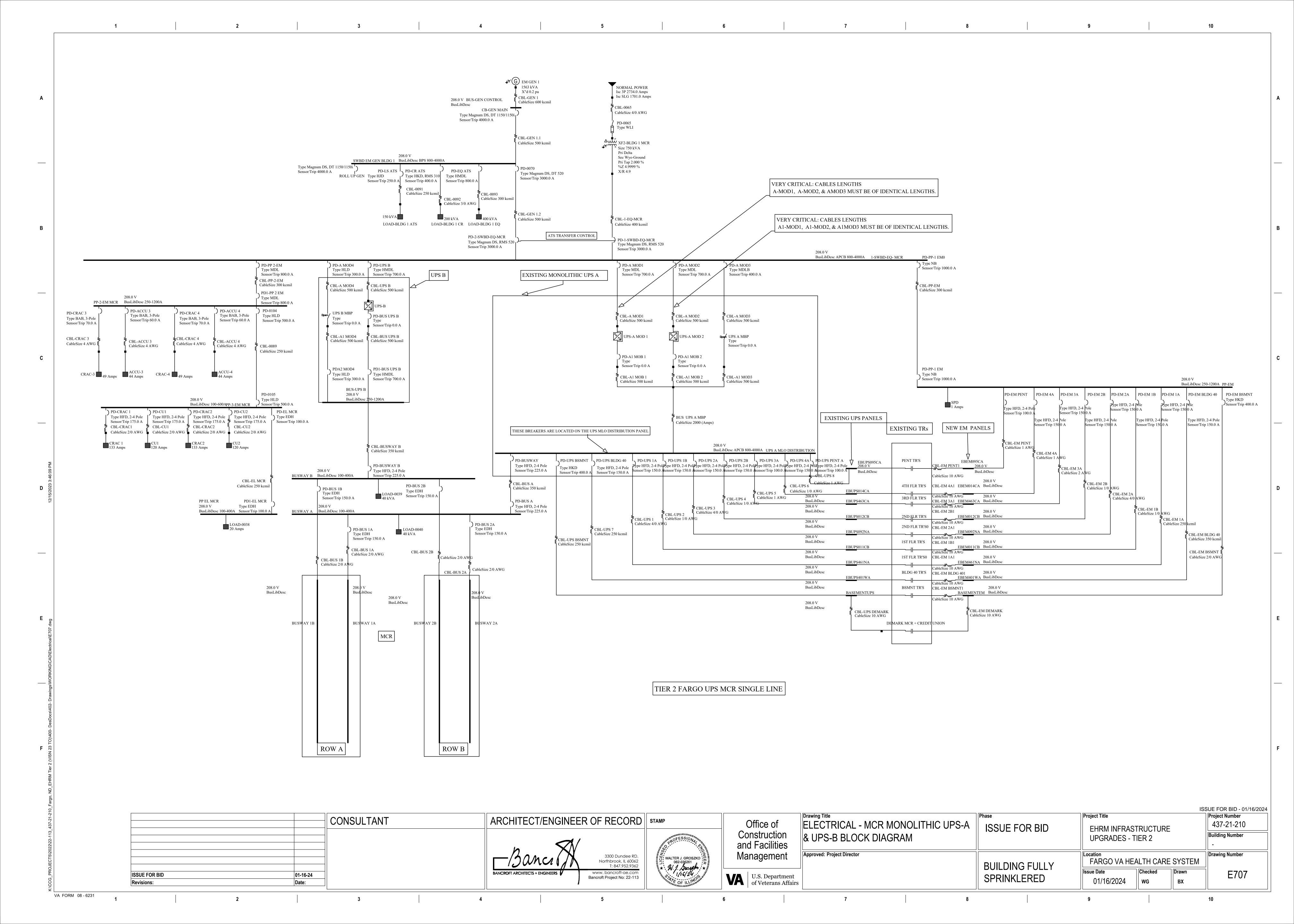
	PANEL NAME		LOCATION	٧	M	OUN	TING		SUPF	LIE	D FR	ОМ		VOLTAG	iE	BUS	MAIN	
	BUSSWAYB	DAT	A CENTER	RM	S	URF/	ACE		UPS	B RI	и ве	-97	120	0/208V. 3P	H, 4W	250	250A. 3P. M.C.B.	
CKT	OAD DESCRIPTION		VA LOAD	)		С	В		BUS		С	В			VA LOAD		LOAD DESCRIPTION	CKT
NO	OND BEGOIN HOIV	PH A	PH B	PHC	CODE	Р	TR	Α	В	С	TR	Р	CODE	PH A	PH B	PH C	LOND BEGONII HON	NO
1		13333			E			*		+			E	13333				2
	ROW 1 UPS BUSWAY B		13333		E	3	150		×	+	150	3	E		13333		ROW 2 UPS BUSWAY B	4
5				13333	E					*			E			13333		6
7						1	20	*		+ $ $	20	1						8
9						1	20		×	+	20	1						10
11						1	20			*	20	1						12
13						1	20	*		+	20	1						14
15						1	20		<del> </del>	+	20	1						16
17						1	20			X	20	1						18
LOAD D	ESCRIPTION	CO	NNECTED				IAND	S	UBFE				CONNE	CTED		VA		
			(KVA)			(	KVA)				(KV/	۲)						
LIGHTIN			0.0				0.0		ITING	-	0.0		PH A			26666	_	
	T (FIRST 10 KW)		0.0					REC		$\rightarrow$	0.0		PH B			26666	_	
	T (REMAINDER)		0.0				0.0			$\rightarrow$	0.0		PH C			26666	5	
MOTOR			0.0				-	EQL		$\rightarrow$	0.0							
	ST MOTOR		0.0				0.0	HEA	TING		0.0		TOTAL			KVA		
EQUIPM			80.0			79	9.998							ECTED		80.0		
HEATIN	G		0.0				0						DEMA			80.0	222.1	
TOTAL			80.0				80.0						DESIG	SN				
							4.0	2007 N	IC LITO								INTEGRAL TO (CO	
	GROUND BUS								EUTR							100 -	INTEGRAL TVSS	
	ISOLATED GROUND B	08					20	JU% IN	EUTR/	AL B	305					ISC =	14KAIC	
1	LIGHTING		M	MOTORS					E			:OI III	PMENT			S	SUBFED	
R	RECEPTACLE		LM	LARGEST	MOTOR				<u></u> Н	$\dashv$		IEAT				T	TRANSFORMER	
	INCOLI INOLL		LIVI	L (I (OLO I	14101011				11							<u>'</u>	III THOU OTHER	

	PANEL NAME		LOCATION		M	OUN	TING		SUF	PPLIE	D FR	MC		VOLTAG	E	BUS	MAIN	
U	PS A DISTRIBUTION	U	PS RM BE-	97	1	FLO	OR		SW	VGR E	EQ MC	CR	120	0/208V. 3P	H, 4W	N/A	N/A	
CKT	LOAD DESCRIPTION		VA LOAD			С	В		BUS		CI	В			VA LOAD		LOAD DESCRIPTION	CK.
NO	LOAD BLOOKII HON	PHA	PH B	PH C	CODE	Р	TR	Α	В	С	TR	Р	CODE	PH A	PH B	PH C	LOAD BLOOKII HON	NO
1		2400			E			×		+			E	26640				2
3	PNL ENTR. A, B		2400		E	3	100		<del>-  </del>	+	250	3	E		26640		PNL BUSWAY A	4
5				2400	E					<del> </del>			E			26640		6
7		24360			E			<del> </del>	+	+			E	9360				8
9	PNL BSMNTUPS		24360		E	3	400		×	+	150	3	E		9360		PNL EBUPS011CB	10
11				24360	E					<del> </del>			E			9360		12
13		9360			E			<del>                                     </del>		+			E	9360				14
15	PNL EBUPS401WA		9360		E	3	150		×	+	150	3	E		9360		PNL EBUPS012CB	16
17				9360	E					<del> </del>			E			9360		18
19		9360			E	_		X	<u> </u>	$\top$			E	12000	1.2.2.			20
21	PNL EBUPS461NA		9360		<u>E</u>	3	150		×		150	3	E		1200	122-	PNL EBUPS014CA	22
23				9360	E					<del> </del>			E			1200		24
25		9360			E			×					E	4800				26
27	PNL EBUPS092NA		9360		<u>E</u>	3	150		×	T,	100	3	E		4800		PNL EBUPS463CA	28
29		4000		9360	E					_	- 00		E			4800		30
31	DAIL EDUDOGGGA	4800	4000		E		400	T			20	1						32
33	PNL EBUPS095CA		4800	4000	E	3	100		×		20	1						34
35				4800	Е		-				20	1						36
37						1	20	$\uparrow$			20	1						38
39						1	20		r		20	1						40
41		0.0	NINE OTED			1	20		01105		20	1						42
.OAD	DESCRIPTION	CC	ONNECTED				AND		SUBF	ED L			CONNE	CTED		VA		
IOLIT	TNO		(KVA)			(K	(VA)		LITINIO		(KVA		DILA			404000		
IGHT			0.0				0.0		HTING	· · · · ·	0.0		PHA			121800	-	
	PT (FIRST 10 KW)		0.0				0.0		CEPT		0.0		PHB			111000	-	
	PT (REMAINDER)		0.0						TORS		0.0		PHC			111000		
MOTO	EST MOTOR		0.0				0.0	EQ	ATING		0.0		TOTAL			KVA	AMPS	
	PMENT		343.8			3	43.8		4 HING	ı	0.0			IECTED		343.8		
IEATI			0.0				43.8						DEMA			343.8		
OTAL			343.8		<u>'</u>	- 3	43.8						DESIG			343.0	904.3	
UIAL	<u> </u>		343.0				43.0						DESIC	- N				
	GROUND BUS						1	00%	NEUT	RAL	BUS						INTEGRAL TVSS	
	ISOLATED GROUND BU	JS							NEUT							ISC =	14KAIC	
		- <del>-</del>					-	10	0.									
				I														
L	LIGHTING		+	MOTORS					-	Ξ	_		PMENT			S	SUBFED	
R	RECEPTACLE		LM	LARGES		₹			H	┥	H	EATI	ING			Т	TRANSFORMER	

PANEL NAME	L	OCATIO	N		MOUN	TING		SI	UPPL	IED FR	ОМ		VOLTAG	E	BUS	MAIN	
EBUPS 90N1 - REUSE		BC-50A			SURF	ACE						120	)/208V. 3P	H, 4W	400A	400A. 3P. M.C.B.	
LOAD DESCRIPTION	\	/A LOAI	)		CI	В		BUS		С	В			VA LOAE	)	LOAD DESCRIPTION	СКТ
NO DESCRIPTION	PH A	PH B	PH C	CODE	Р	TR	Α	В	С	TR	Р	CODE	PHA	PH B	PHC	Love Beach Hor	NO
1 ACCU-BC-50A-1 / CCU-B50A-1	960			Н	2	20	<del>                                     </del>		+	20	2	Н	960			ACCU-BC-50A-2 / CCU-B50A-2	2
3		960		Н				×	+			Н		960		/(CCC DC CC/(L/ CCC DCC/(L	4
ACCU-BC-50B / CCU-B50B			960	H	2	20			$\overline{}$	20	2	H			960	ACCU-BC-60-1 / CCU-B60-1	6
7	960			Н			<del>                                     </del>		+			Н	960				8
9 ACCU-BC-60-2 / CCU-B60-2		960		H	2	20		X	寸.	20	1						10
11			960	H					<del>-x</del> -	20	1						12
13					1	20	<b> </b>		$\top$	20	1						14
15					1	20		X	1	20	1						16
17					1	20			$\overline{}$	20	1						18
19					1	20	T T		$\top$	20	1					132 132 133 133	20
21					1	20		X		20	1						22
23					1	20			_	20	1						24
25					1	20	1			20	1						26
27	_				1	20		<u> </u>	Ţ	20	1						28
29					1	20			$\overline{}$	20	1						30
31					1	20				20	1						32
33	-				1	20		^		20	1						34 36
35 37					1	20			$\perp$	20	1						38
39					1	20				20	1						40
41					<u>'</u> 1	20		^		20	1						42
41	CONIN	ILOTED						CLID	· FFD								42
OAD DESCRIPTION	CONN	NECTED				MAND	'	SUB	red	LOADS		CONNE	CTED		VA	A	
IGHTING	+	(KVA) 0.0				(KVA) 0.0		HTING		(KVA)		PHA			3840		-
RECEPT (FIRST 10 KW)		0.0						CEPT		0.0		PHB			2880	_	
ECEPT (REMAINDER)		0.0						TORS		0.0		PHC			2880	_	
MOTORS		0.0					EQ			0.0		РПС			2000	2	
ARGEST MOTOR		0.0						ATING		0.0		TOTAL			KVA	AMPS	
QUIPMENT	-	0.0				0.0		AIIING	<u> </u>	0.0			ECTED		9.0		
EATING		9.6				9.6						DEMA			9.0		
OTAL		9.6				9.6						DESIG			J.,	20.0	
O 17.L		9.0				9.0						LOLGIG	14				<u> </u>
GROUND BUS						10	۱ %00	NEUTI	RAI F	BUS						INTEGRAL TVSS	
ISOLATED GROUND BUS								VEUT!							ISC =		
						`											
LIGHTING			140=6													OUNTED	
L LIGHTING			MOTOR		TOP			+	E	-	UIPM				S	SUBFED	
R RECEPTACLE		LM	LARGE	:STMC	IOR				H	HE	ATINO	<i>j</i>			T	TRANSFORMER	

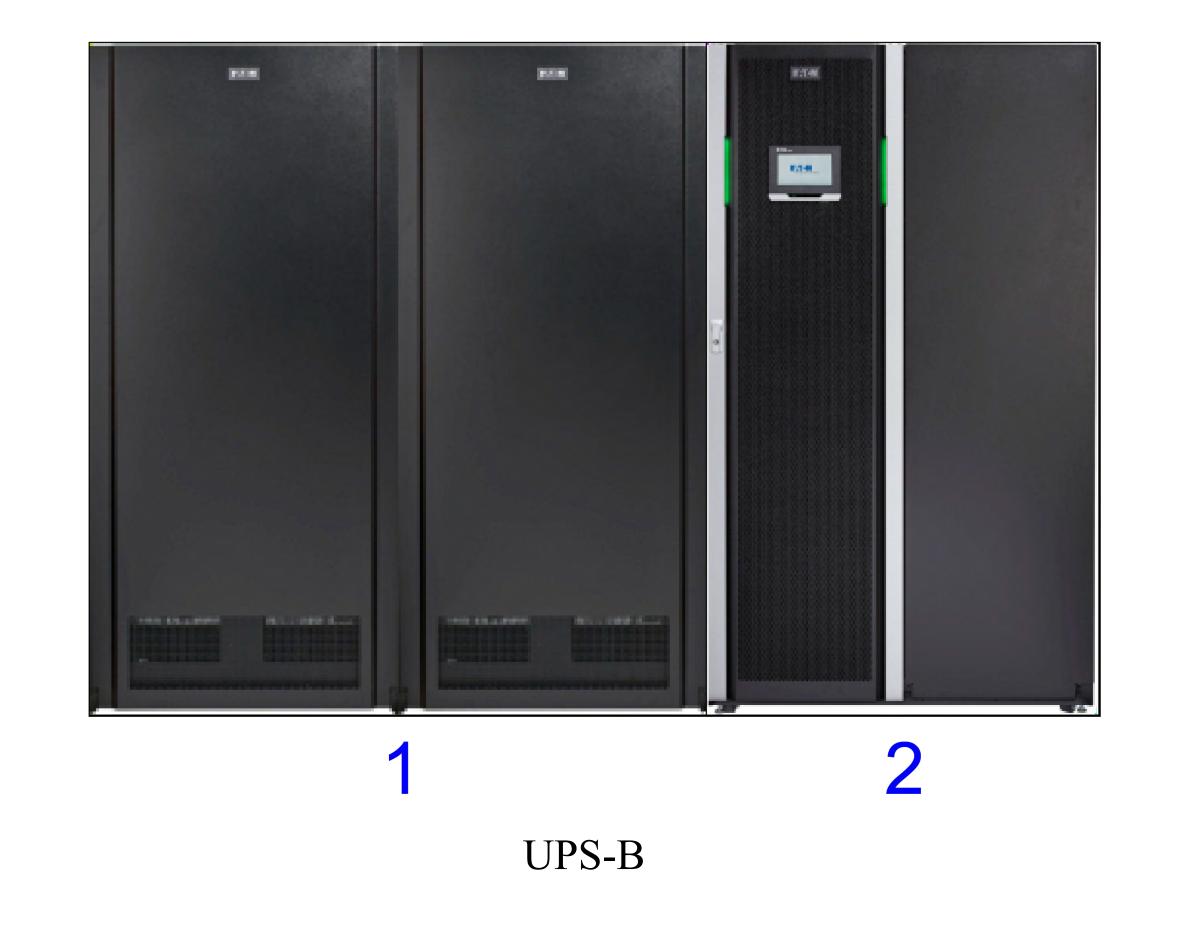
							ISSUE FOR BID - 01/16/2024
	CONSULTANT	ARCHITECT/ENGINEER OF RECORD STAMP	Office of	Drawing Title   ELECTRICAL - DATA CENTER PANEL	Phase IOOUE FOR DID	Project Title	Project Number 437-21-210
		THE PROPESSION OF THE PROPESSION OF THE PROPESSION OF THE PROPESSION OF THE PROPERTY OF THE PR	Construction and Facilities	SCHEDULES	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	Building Number 1-9-46
		3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	Management	Approved: Project Director	BUILDING FULLY	Location FARGO VA HEALTH CARE SYSTEM	Drawing Number
ISSUE FOR BID Revisions:	01-16-24 Date:	BANCROFT ARCHITECTS + ENGINEERS  www. bancroft-ae.com Bancroft Project No: 22-113  OF ILLINOISTIC	U.S. Department of Veterans Affai	rs	SPRINKLERED	Issue Date Checked Drawn 01/16/2024 WG BX	E607

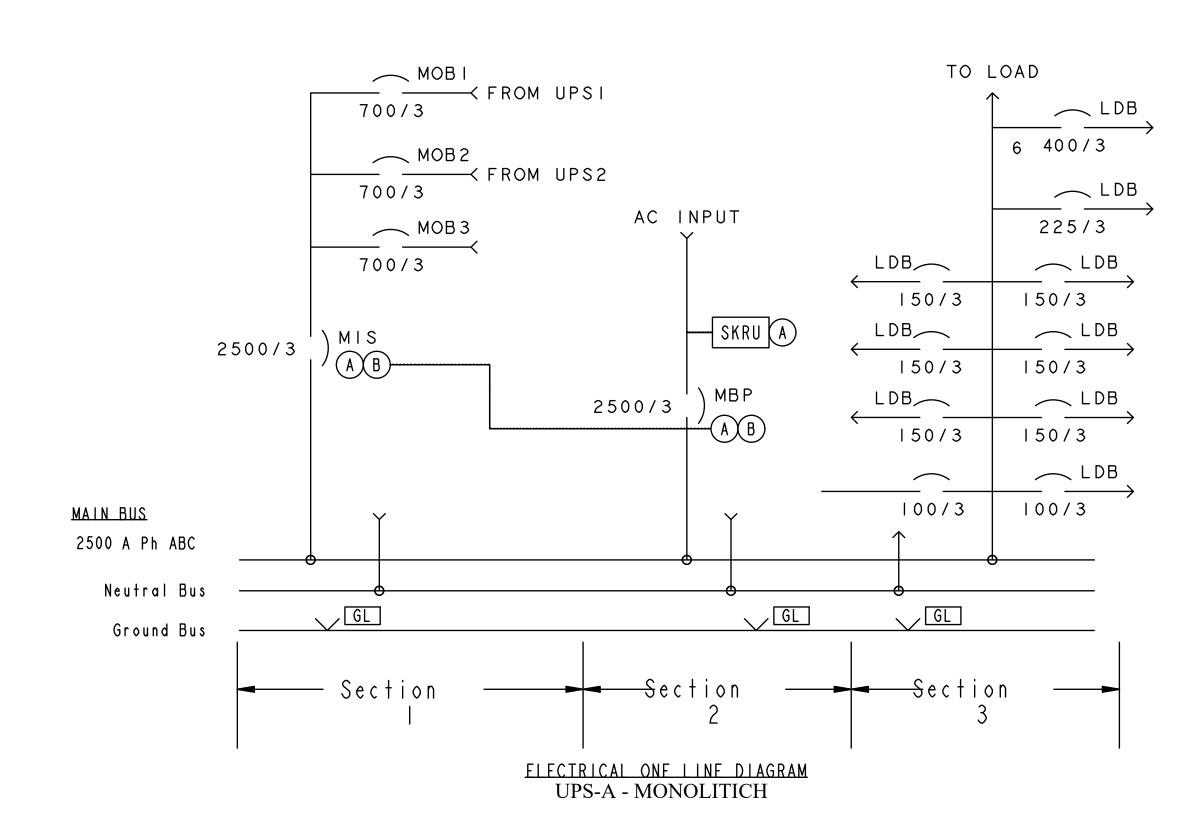


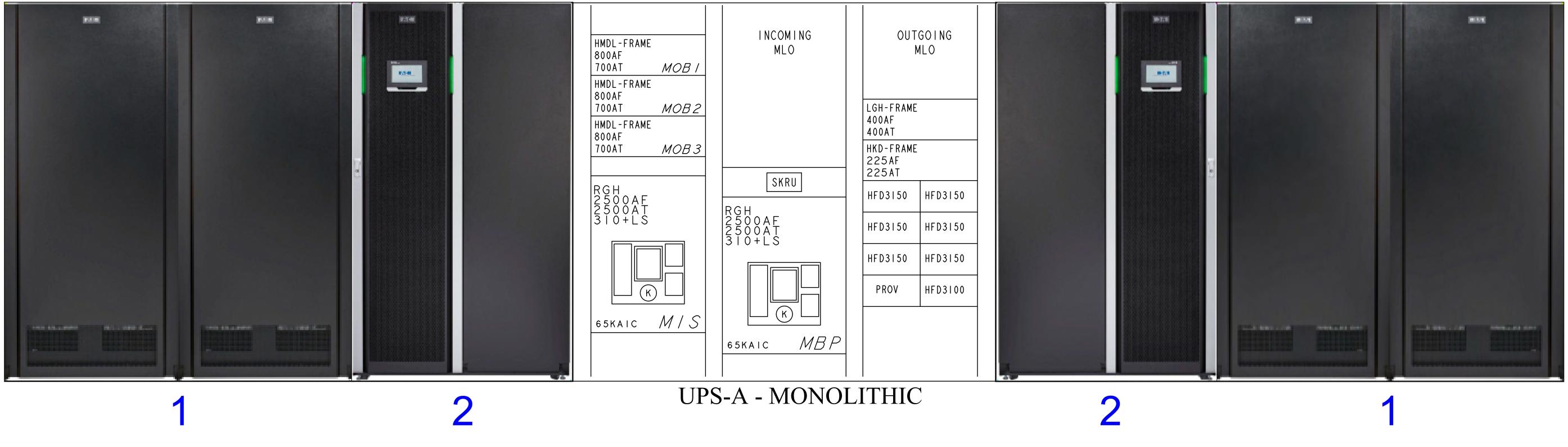


## ELECTRICAL GENERAL NOTES

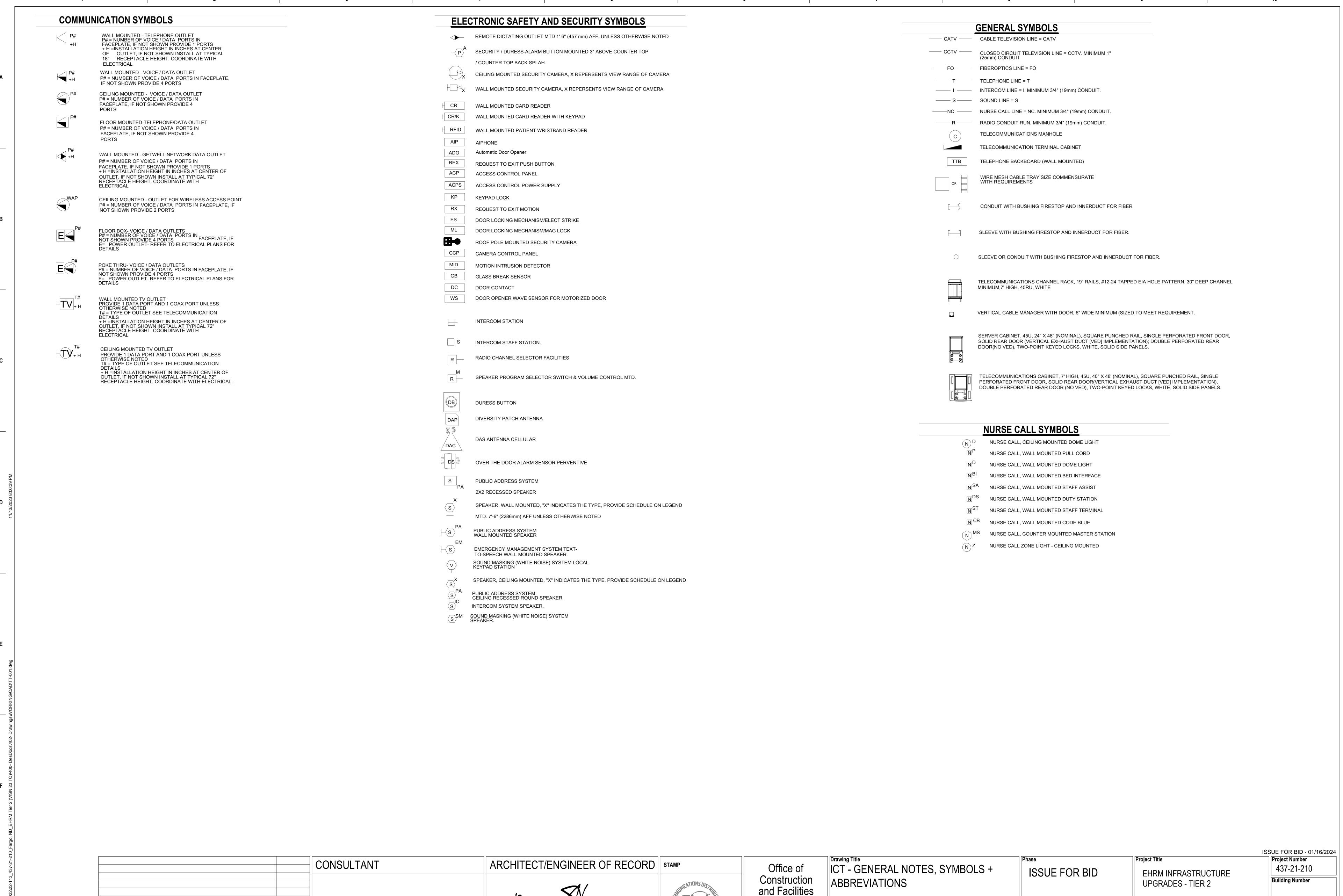
A. SEE DRAWING EP-01-404 FOR EQUIPMENT CONFIGURATIONS.







		CONSULTANT	ARCHITECT/ENGINEER OF RECORD STAMP	Office of	ELECTRICAL - EM GEN 46 SWBD	Phase	Project Title	Project Number 437-21-21
			Structure of ESSION AND THE STRUCTURE OF THE STRUCTURE	Construction and Facilities	46EE-SWBD, UPS-A AND UPS-B	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	Building Number
			3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362	Management	Approved: Project Director	BUILDING FULLY	Location FARGO VA HEALTH CARE SYSTE	Drawing Number
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**ISSUE FOR BID** 

Revisions:

01-16-24

Date:

Management

Bicsi

**Chris Carter** 

BICSI ID # 136803 EXPIRES 12:31-24

3300 Dundee RD.

T: 847.952.9362

Northbrook, IL 60062

www.bancroft-ae.com

Bancroft Project No: 22-113

BANCROFT ARCHITECTS + ENGINEERS

U.S. Department of Veterans Affairs

Approved: Project Director Drawing Number FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** Checked Drawn TT-001 SPRINKLERED 01/16/2024 I cc JG

