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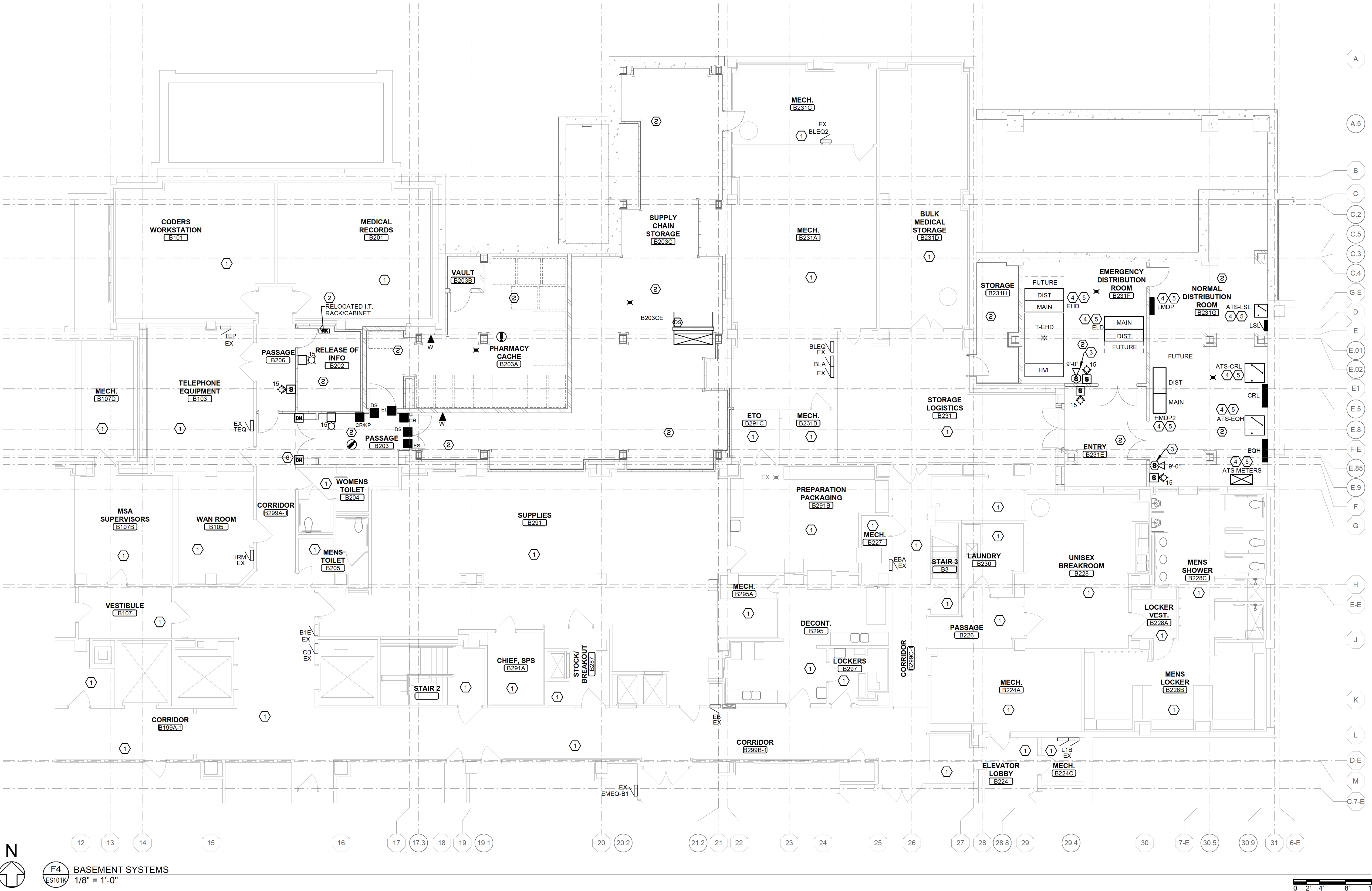
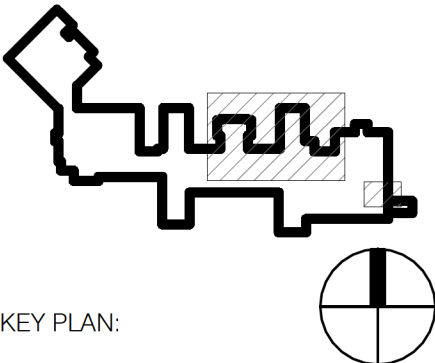
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GENERAL NOTES

1. DEVICES SHOWN LOW ON NEW CASEWORK ARE INTENDED TO BE MOUNTED WITHIN THE KNEE SPACE OF THE NEW CASEWORK ADJACENT TO POWER DEVICE. COORDINATE WITH CASEWORK SUPPLIER/INSTALLER. REFERENCE DETAIL "IES01 AND ARCHITECTURAL CASEWORK DETAILS ON 700 SERIES SHEETS.
2. AT ALL TV LOCATIONS, EC SHALL COORDINATE WITH GC AND OWNER FOR THE EXACT LOCATIONS OF ALL ASSOCIATED LOW VOLTAGE DEVICES. THE INTENT IS THE DEVICE SHALL BE LOCATED BEHIND THE TV. SIZE SELECTED BY OWNER. AND AVOID CONFLICTS WITH MOUNTING BRACKET INSTALLED BY OWNER

KEYED PLAN NOTES
(THIS SHEET ONLY)

1. EXISTING LOW VOLTAGE DEVICE(S) SUCH AS VOICE/DATA OUTLET(S), BLANK BOX(S), FIRE ALARM DEVICE(S), PAGING SYSTEM DEVICE(S), SECURITY SYSTEM DEVICE(S) AND NURSE CALL SYSTEM DEVICE(S) TO REMAIN IN SERVICE. NO CHANGE.
2. REINSTALL EXISTING DATA CABINET SALVAGED FROM DEMOLITION.
3. PROVIDE A NEW P/A, HORN SPEAKER AND CONNECT TO EXISTING PAGING SYSTEM. PROVIDE CONDUIT AND WIRING AS REQUIRED.
4. EC WILL BE RESPONSIBLE FOR:
 - A) ALL INTERCONNECTIONS BETWEEN THE ATS'S AND POWER LOGIC METERS.
 - B) ALL PROGRAMMING VIA SQUARE D FOR THE ATS CONTROL AND FUNCTIONALITY OF TEST AND EPSS POWER LOGIC SUITE.
 - C) PROVIDING CT'S AS REQUIRED O ALL EQUIPMENT HAVING METERS.
 - D) ALL SQUARE D NETWORK CABLEING TO THE ATS'S, GEAR AND CONNECTIONS TO EXISTING SYSTEM.
 - E) ALL CUMMINS POWER CONTROL WIRING AND CONNECTIONS ON BOTH ENDS FOR START AND STATUS SIGNALS OF THE ATS'S.
 - F) COORDINATION WITH BOTH SQUARE D AND CUMMINS N POWER REPS TO ENSURE ALL REQUIRED WIRING, PROGRAMMING AND CONTROL SCHEMES ARE PROVIDED AND OPERATIONAL. PROVIDE COMMISSIONING FOR THE ATS'S WITH BOTH PARTIES ON SITE TO VERIFY CODE REQUIRED COMPLIANCE. INCLUDE A FULL REPORT WITH EPSS REPORT TIMES VERIFIED FOR J.A.C.H.O. PURPOSES.
5. PROVIDE A DATA DROP FROM THE CLOSEST IDF ROOM (AS COORDINATED WITH FACILITIES I.T. DEPARTMENT) TO EACH PIECE OF EQUIPMENT NOTED. COORDINATE WITH EQUIPMENT SUPPLIER.
6. PROVIDE PUSH BUTTON TO RELEASE THE ELECTRIC STRIKE AS SHOWN. PROVIDE CONDUIT AND WIRING REQUIRED.

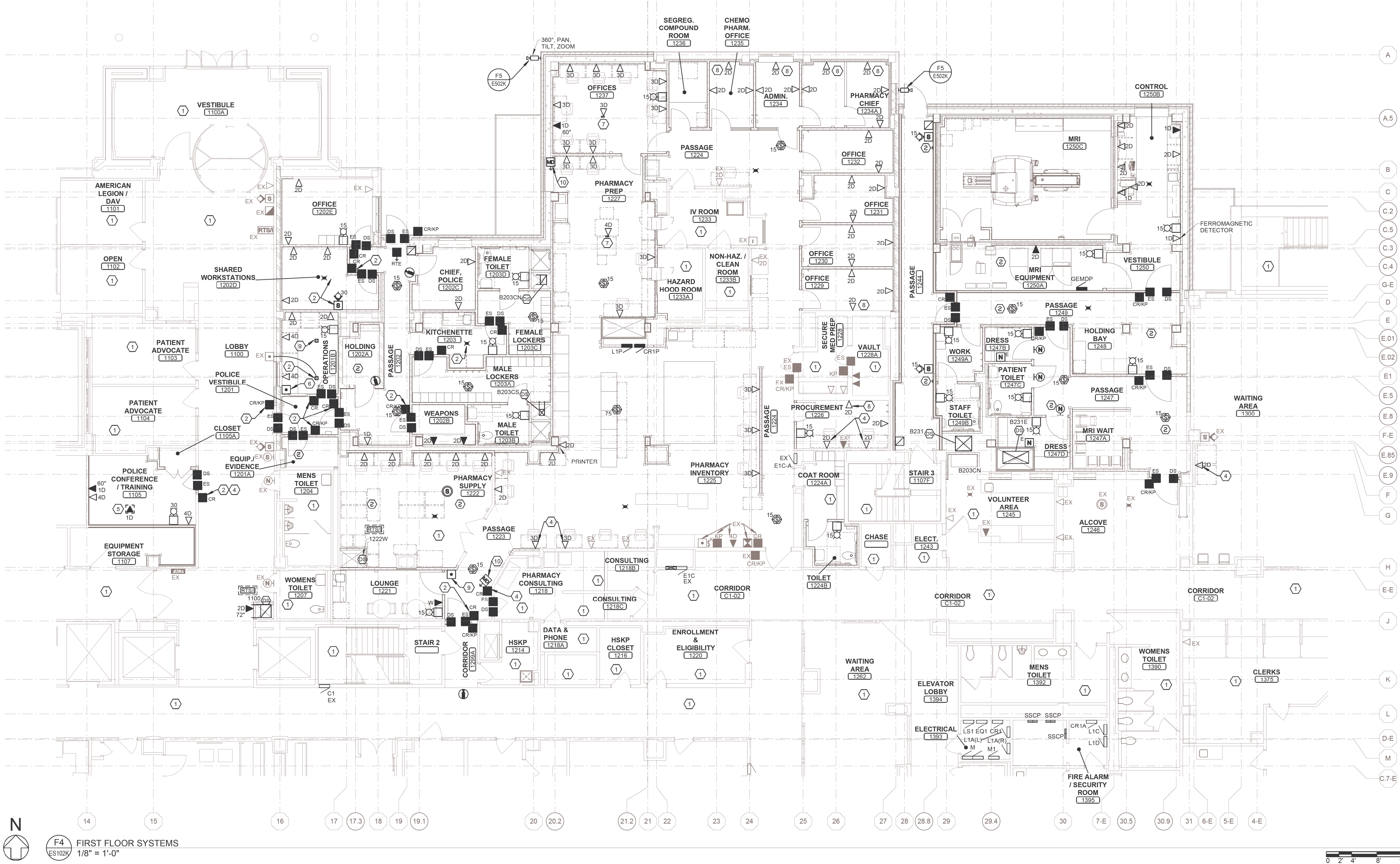
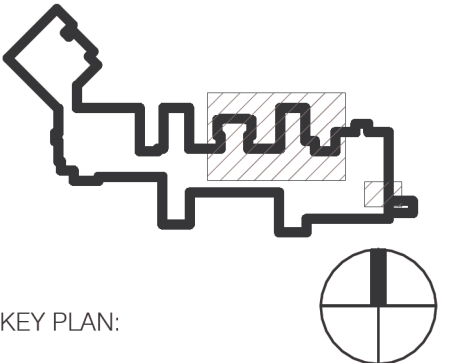


GENERAL NOTES

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- 2. AT ALL TV LOCATIONS, EC SHALL COORDINATE WITH GC AND OWNER FOR THE EXACT LOCATIONS OF ALL ASSOCIATED LOW VOLTAGE DEVICES. THE INTENT IS THE DEVICE SHALL BE LOCATED BEHIND THE TV, SIZE SELECTED BY OWNER, AND AVOID CONFLICTS WITH MOUNTING BRACKET INSTALLED BY OWNER.

KEYED PLAN NOTES
(THIS SHEET ONLY)

- 1 EXISTING LOW VOLTAGE DEVICE(S) SUCH AS VOICE/DATA OUTLET(S), BLANK BOX(S), FIRE ALARM DEVICE(S), PAGING SYSTEM DEVICE(S), SECURITY SYSTEM DEVICE(S) AND NURSE CALL SYSTEM DEVICE(S) TO REMAIN IN SERVICE. NO CHANGE.
- 2 REINSTALL EXISTING DEVICE(S) SALVAGED FROM DEMOLITION. PROVIDE CONDUIT AND WIRING AS REQUIRED.
- 3 EXISTING DATA RACK TO BE UTILIZED TO TERMINATE ALL NEW DATA OUTLET(S)/DROP(S).
- 4 CUT NEW BACK BOX INTO EXISTING WALL. FISH WALL CAVITY WITH CONDUIT TO FEED NEW DEVICE(S).
- 5 LOCATE IN FLOOR BOX. REFERENCE POWER PLAN EP102K, NOTE #3.
- 6 PROVIDE PUSH BUTTON TO RELEASE THE ELECTRIC STRIKE AS SHOWN. PROVIDE CONDUIT AND WIRING REQUIRED.
- 7 REFERENCE THE POWER PLAN FOR INFORMATION ON THE TELE-POWERPOLE.
- 8 SURFACE MOUNT NEW DEVICE(S) VIA METAL DIVIDED SURFACE RACEWAY (WIREMOLD OR EQUAL).
- 9 PROVIDE A NEW PUSH BUTTON AND BUZZERBELL, SIMILAR TO THE EXISTING BUTTON AND BUZZERBELL LOCATED IN THE LOBBY AND OPERATIONS. THE NEW BUTTON SHALL BE LOCATED IN PASSAGE #1223 (LABEL "PANIC BUTTON"). LOCATE THE NEW BUZZERBELL WITHIN OPERATIONS #1201B. COORDINATE LOCATIONS WITH OWNER. UTILIZE THE LOCAL 120V LIGHTING CIRCUIT.
- 10 PROVIDE SECURITY INTRUSION DETECTION (MOTION SENSORS) AS REQUIRED BY VA SECURITY STANDARDS AT THE WEST WINDOWS OF RM #1227 AND AT THE DOOR ENTRY OF PASSAGE #1223. EXTEND THE EXISTING JOISIMPLEX SECURE SYSTEM. COORDINATE PROGRAMMING OF SENSORS WITH OWNER.



CONSTRUCTION SET	05/08/2023
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STATE OF MICHIGAN
JOHN G. MILLER
ARCHITECT
No. 1301059737
EXPIRATION DATE 12/31/2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR SYSTEMS PLAN

Approved:

Phase
CONSTRUCTION SET

FULLY SPRINKLERED

Project Title
EXPAND PHARMACY AND RADIOLOGY
OSCAR G. JOHNSON VA MEDICAL CENTER

Location
325 H STREET,
IRON MOUNTAIN, MI 49801

Issue Date
MAY 8, 2023

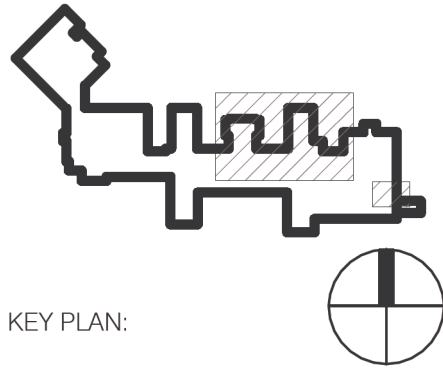
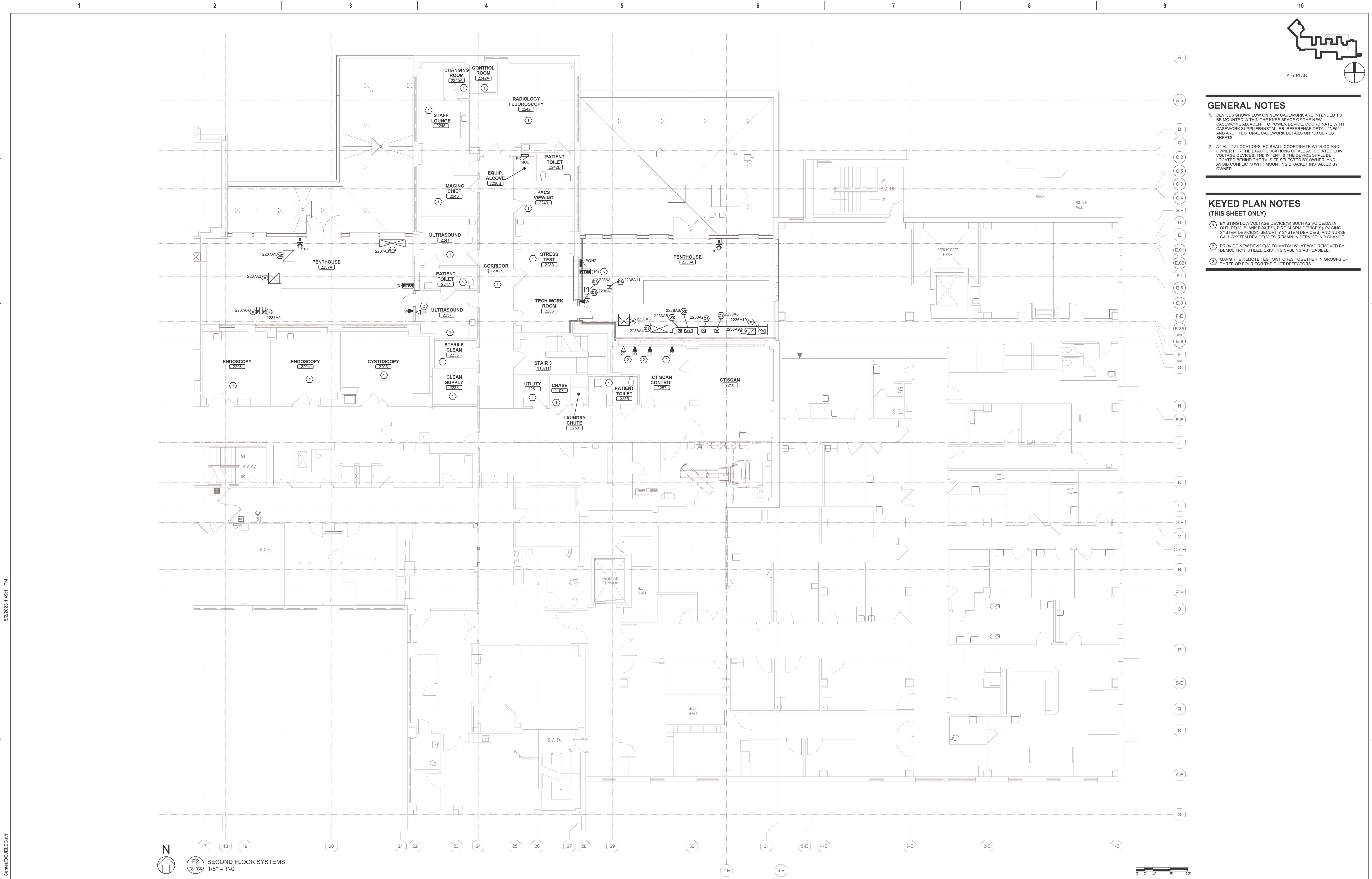
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NMP

Project Number
585-337

Building Number
1

Drawing Number
ES102K
DWG. 115 OF 126



- GENERAL NOTES**
- DEVICES SHOWN LOW ON NEW CASEWORK ARE INTENDED TO BE MOUNTED WITHIN THE KNEE SPACE OF THE NEW CASEWORK, ADJACENT TO POWER DEVICE. COORDINATE WITH CASEWORK SUPPLIER/INSTALLER. REFERENCE DETAIL **E501 AND ARCHITECTURAL CASEWORK DETAILS ON 700 SERIES SHEETS.
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 - PROVIDE NEW DEVICE(S) TO MATCH WHAT WAS REMOVED BY DEMOLITION. UTILIZE EXISTING CABLINGS AS FEASIBLE.
 - GANG THE REMOTE TEST SWITCHES TOGETHER IN GROUPS OF THREE OR FOUR FOR THE DUCT DETECTORS.

N
F2 SECOND FLOOR SYSTEMS
ES103K
1/8" = 1'-0"

0 2' 4' 8' 12'

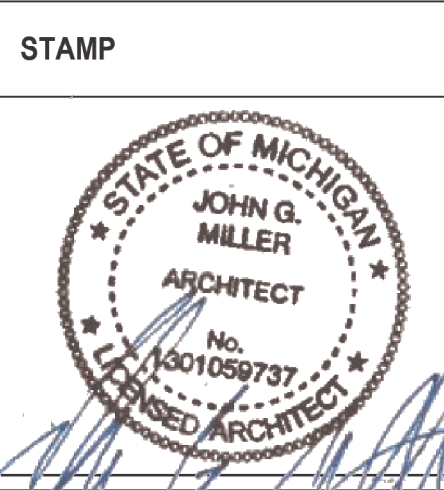
CONSTRUCTION SET	05/08/2023
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VA U.S. Department of Veterans Affairs

Drawing Title
SECOND FLOOR SYSTEMS PLAN

Approved:

Phase
CONSTRUCTION SET

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Project Title
EXPAND PHARMACY AND RADIOLOGY
OSCAR G. JOHNSON VA MEDICAL CENTER

Location
325 H STREET,
IRON MOUNTAIN, MI 49801

Issue Date
MAY 8, 2023

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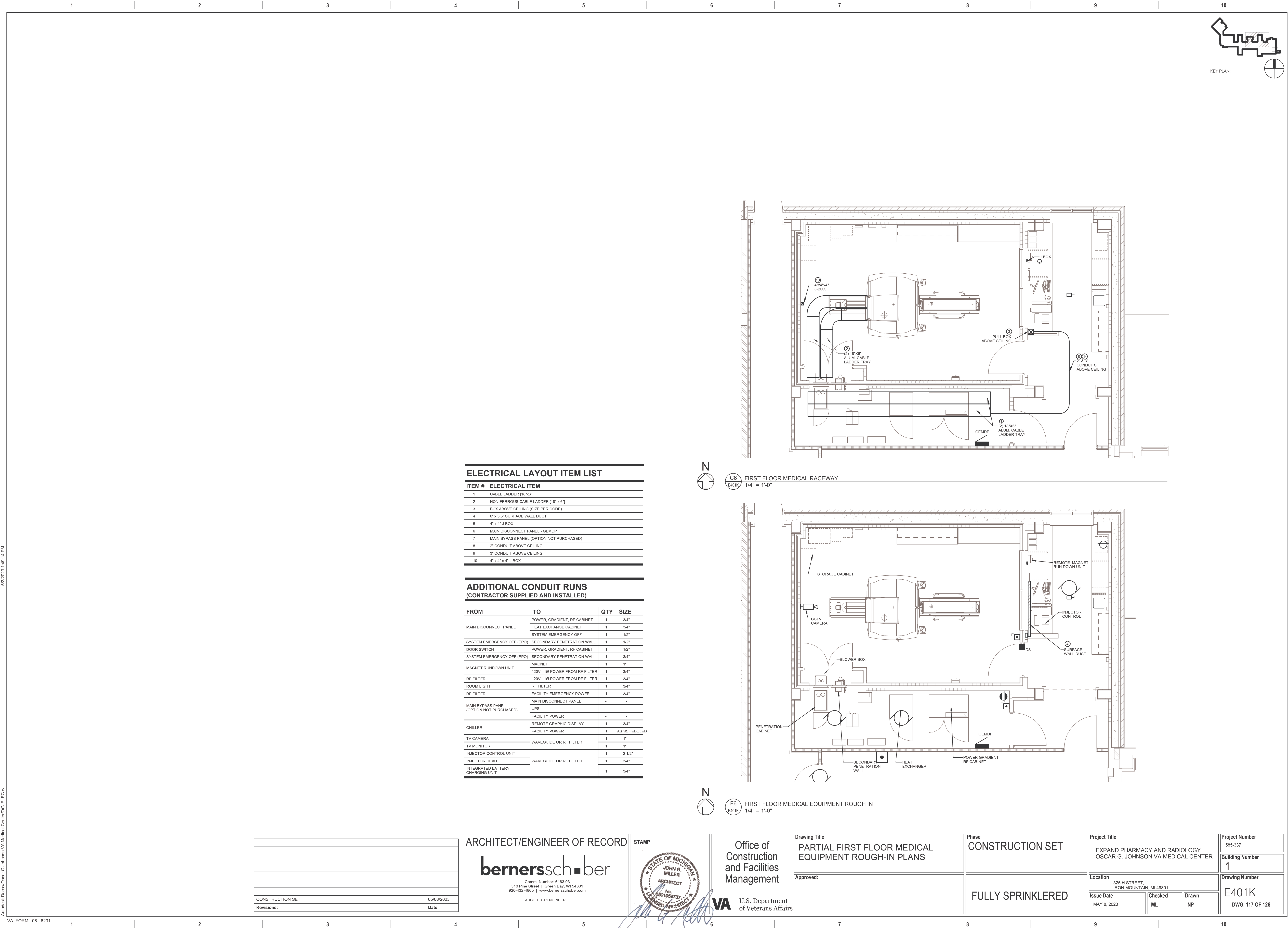
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Project Number
585-337

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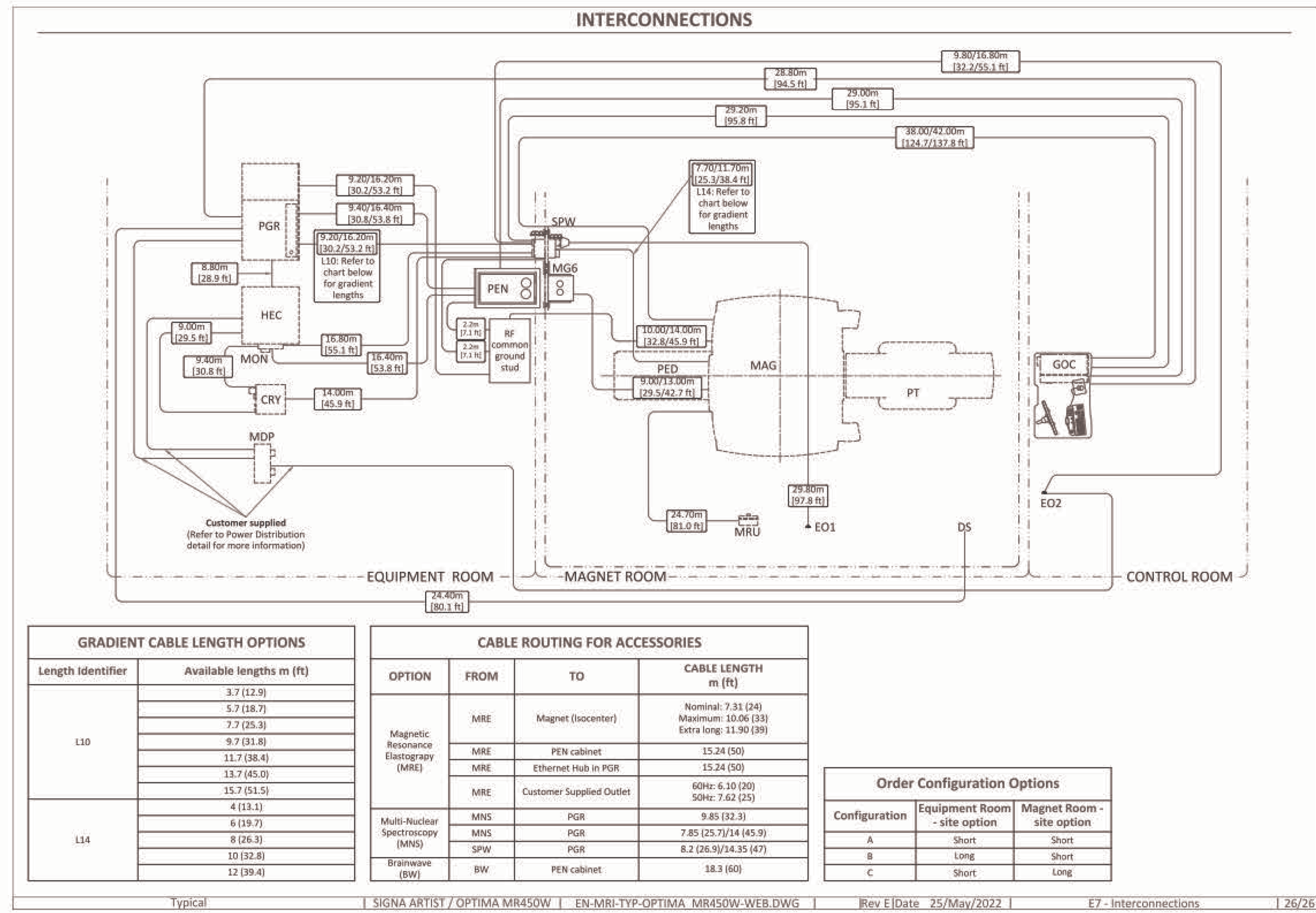
Drawing Number
ES103K
DWG. 116 OF 126

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C1 INTERCONNECTIONS
E402K NO SCALE

POWER REQUIREMENTS

SPECIFICATIONS OF MAIN POWER INPUT

POWER SUPPLY	380/400/415/480V ±10%, THREE-PHASE + N + G
FREQUENCIES	50/60Hz ± 3Hz
POWER FACTOR	0.9
MAXIMUM INPUT POWER (5 sec MAX)	123KVA
INSTALLED LOAD	99KVA
STAND-BY POWER	< 17KVA

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers,...).
- Total harmonic distortion less than 2.5%.
- Phase imbalance must not exceed 2%.
- Lock-out/Tag-out: The Main Disconnect Panel (MDP) shall provide an external single point lock-out/tag-out feature for the entire system and a means to externally lock-out/tag-out each output breaker independently. Each lock-out/tag-out feature shall accommodate a standard sized lock hasp.

SPECIFICATIONS OF BACK-UP POWER SUPPLY

MAGNET MONITOR REQUIRES A 110/220 VAC, 50/60 HZ, 2.0 A FACILITY SUPPLIED OUTLET. POWER AT THE OUTLET MUST BE CONTINUOUSLY AVAILABLE.

FOR CRYOCOOLER COMPRESSOR

POWER INPUT	380/400/415/480V, THREE-PHASE + G
POWER REQUIREMENT	MIN 9KVA
POWER CONSUMPTION	MAX 7.2kW / STEADY STATE 6.5kW at 50Hz MAX 8.3kW / STEADY STATE 7.5kW at 60Hz
FREQUENCY	50/60Hz ± 3Hz

CABLES

- Power and cable installation must comply with the distribution diagram.
- Size of the Main power input cable is determined by the customer, taking its length and admissible voltage drops into consideration.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (V.Emergency Off Buttons,...) will go to Main Panel with a pigtail length of 1.5m (60in), and will be connected during installation.
- Each conductor will be identified and isolated (screw connector).

GROUND SYSTEM

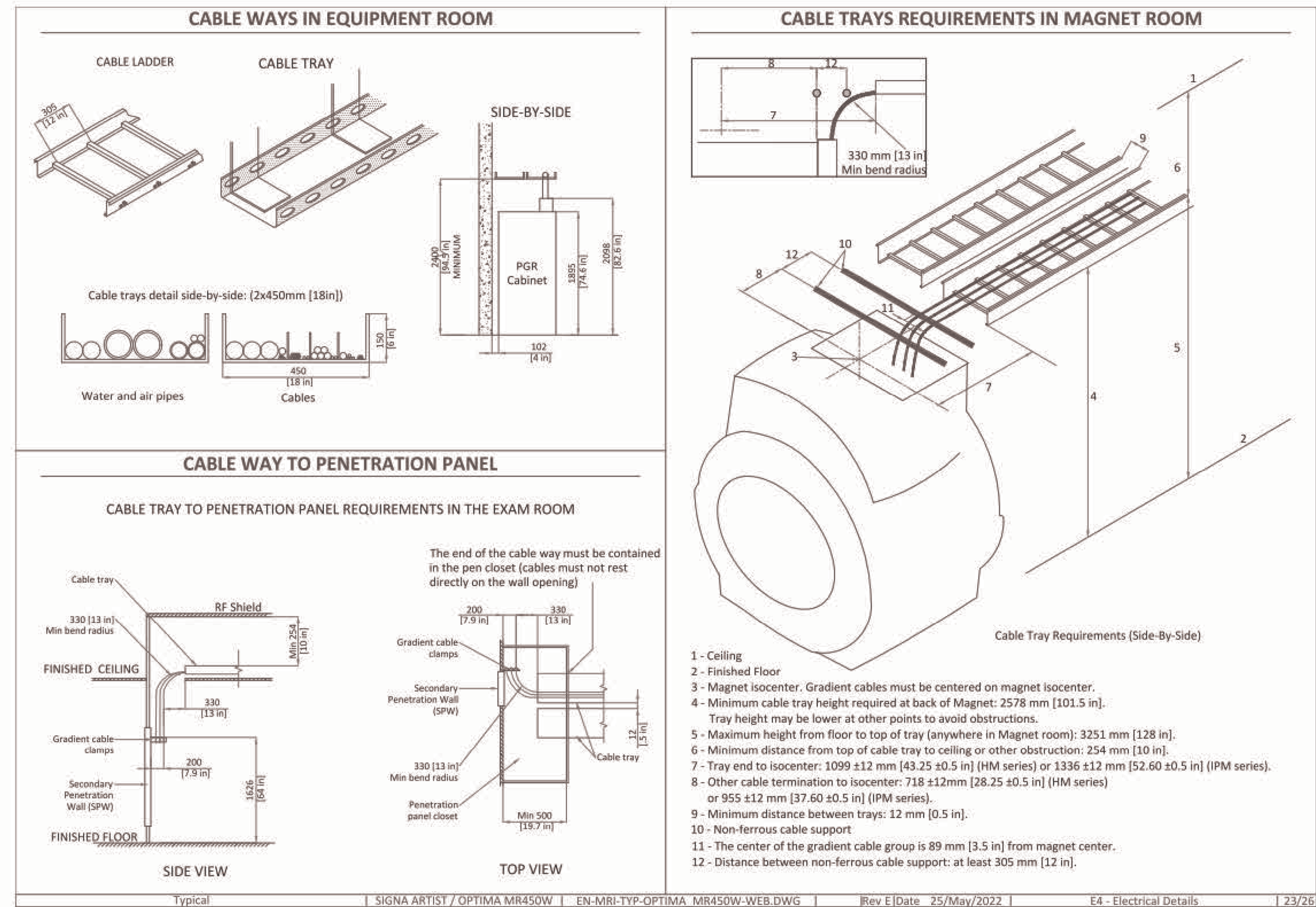
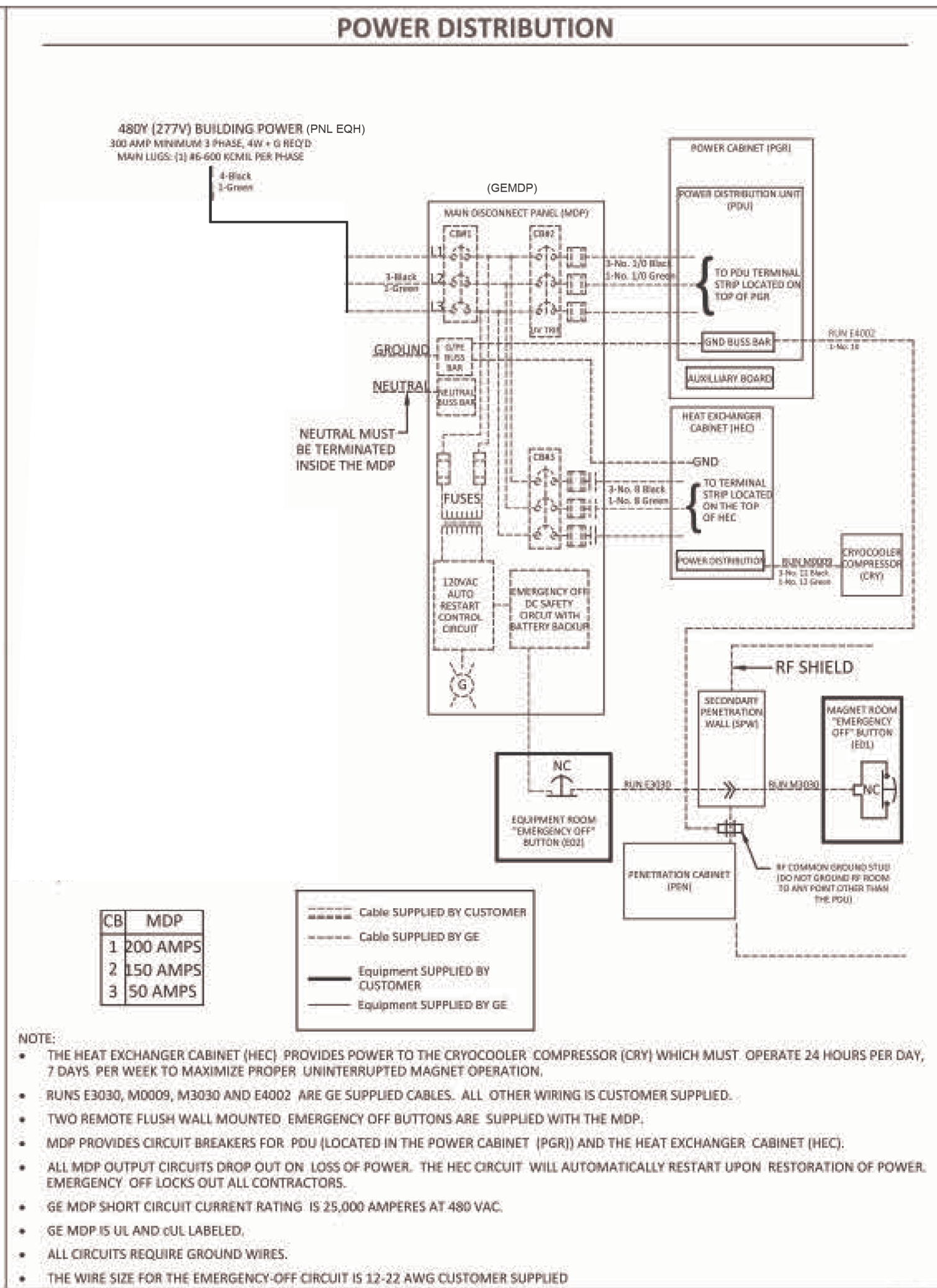
- The equipotential link will be by means of an equipotential bar.
- The grounding point of MDP is directly connected to the building's ground by an isolated copper cable.
- The impedance of the earth bar should be less than or equal to 2 ohms.

GUIDANCE ON SELECTION OF FEEDER AND TRANSFORMER FOR MR SYSTEM

DIRECT FEED FROM FACILITY TO MR SYSTEM		MR system fed by dedicated facility distribution transformer	
Prerequisite Conditions			
MR System Incoming Voltage	480V 3-phase	480V 3-phase	
Minimum Source short-circuit kVA	7,500 kVA (at source of feeder to MDP)	8,325 kVA	(at input to distribution transformer)
Minimum No-Load Voltage	460V	475V (transformer secondary tapped accordingly)	
Feeder and Transformer Recommendations			
Dedicated Distribution Transformer Recommendations	N/A	SIZE: 225 KVA	SIZE: 225 KVA
		Impedance (Z): ≤5%	Impedance (Z): 5-6%
		200A overcurrent protection on secondary*	200A overcurrent protection on secondary*
Maximum Feeder Length**	280 ft	150 ft	240 ft
Feeder Size - 3-phase power conductors*	3/0 AWG Cu	3/0 AWG Cu	3/0 AWG Cu
Feeder Size - Ground (USA)*	4 AWG Cu (equipment grounding conductor)	4 AWG Cu (equipment grounding conductor)	4 AWG Cu (equipment grounding conductor)
Feeder Size - Ground (Canada)*	6 AWG Cu (bonding conductor)	6 AWG Cu (bonding conductor)	6 AWG Cu (bonding conductor)

* NOTE: Recommendations shown apply only to cases defined exactly as shown in this table and when not in conflict with local electrical codes. For all other cases, refer to the local codes and the System Voltage Regulation Calculator located on the GE Healthcare Site Planning Website.

F1 POWER DISTRIBUTION
E402K NO SCALE



F6 CABLE TRAY REQUIREMENTS
E402K 12" = 1'-0"

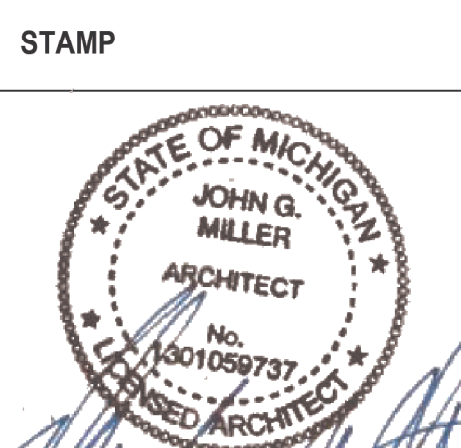
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VA U.S. Department of Veterans Affairs

Drawing Title
MEDICAL ROUGH-IN DETAILS

Approved:

Phase
CONSTRUCTION SET

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Project Title
EXPAND PHARMACY AND RADIOLOGY
OSCAR G. JOHNSON VA MEDICAL CENTER

Location
325 H STREET,
IRON MOUNTAIN, MI 49801

Issue Date
MAY 8, 2023

Checked
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Drawn
NMP

Project Number
585-337

Building Number
1

Drawing Number
E402K
DWG. 118 OF 126

VA FORM 08 - 6231 1 2 3 4 5 6 7 8 9 10

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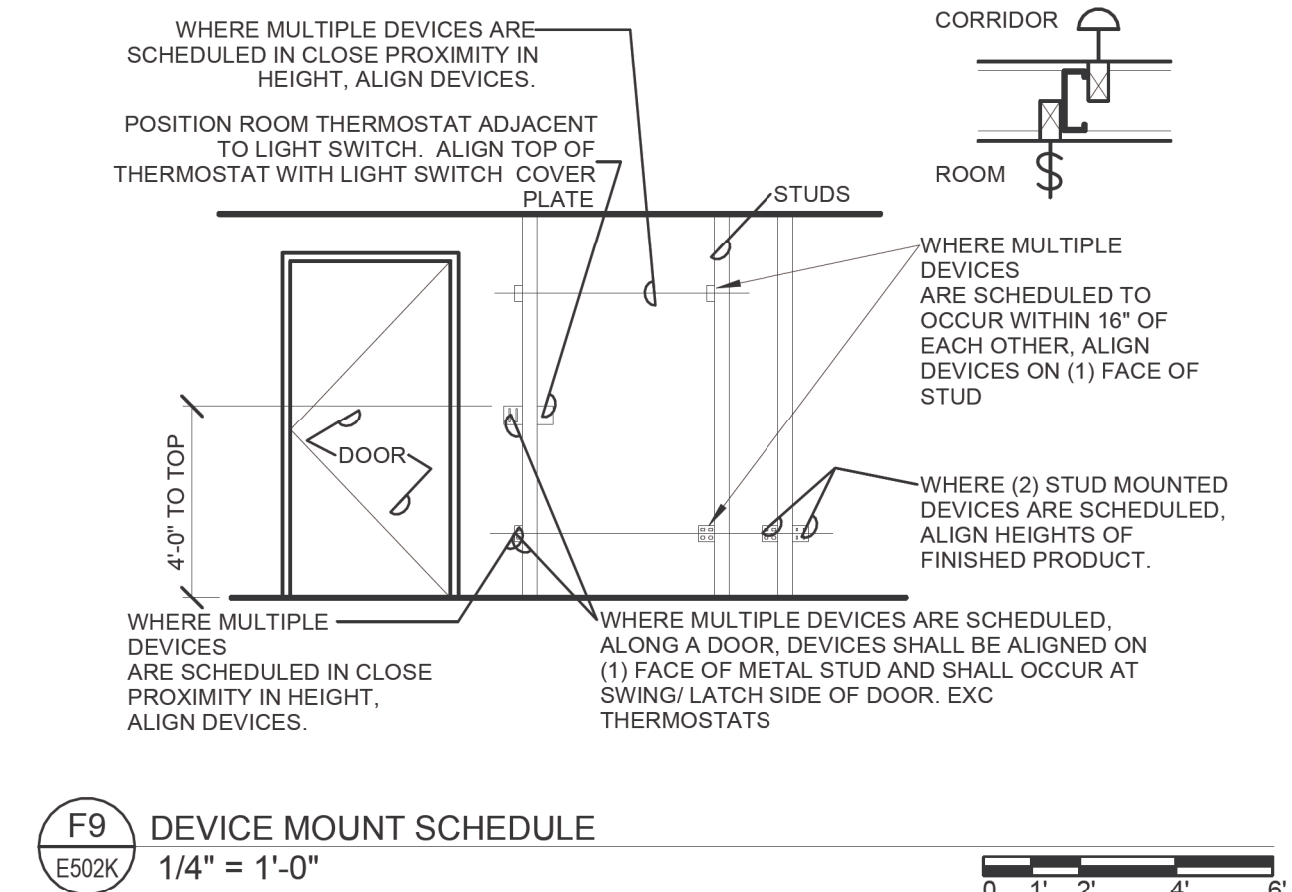
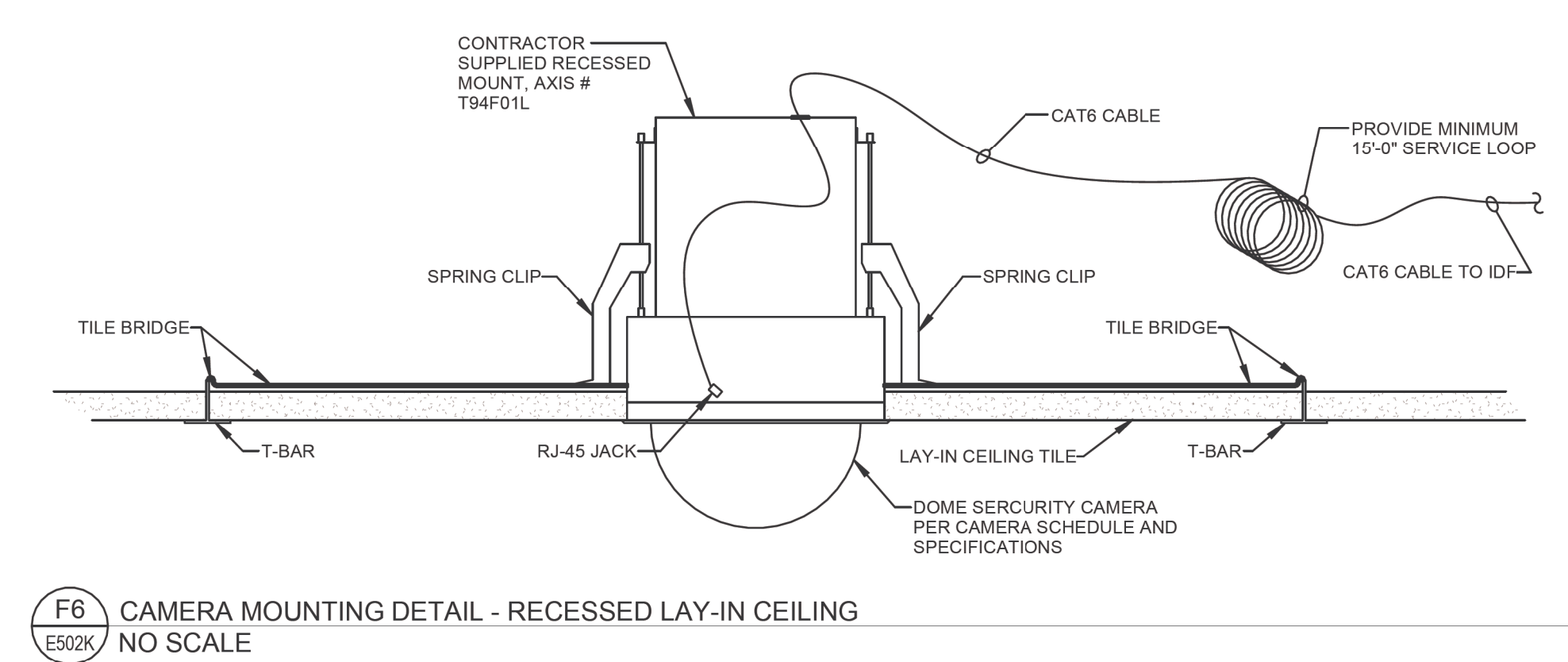
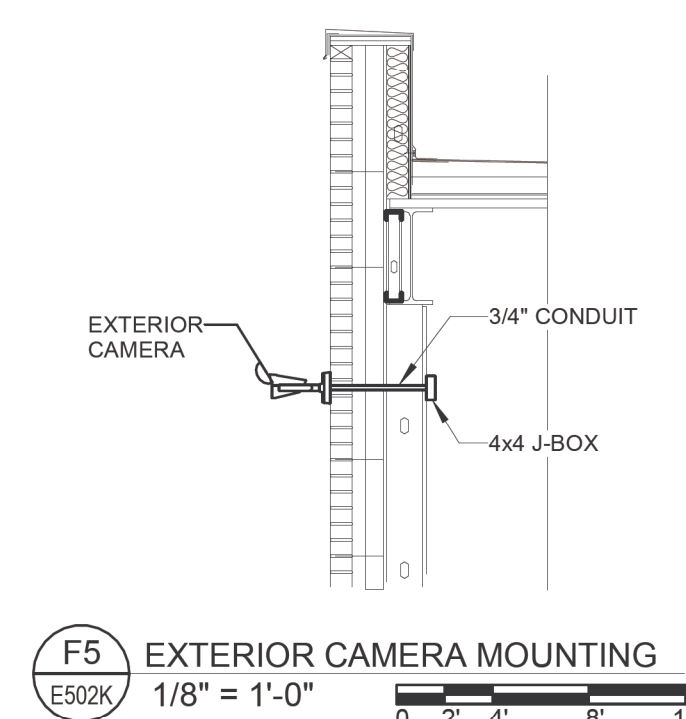
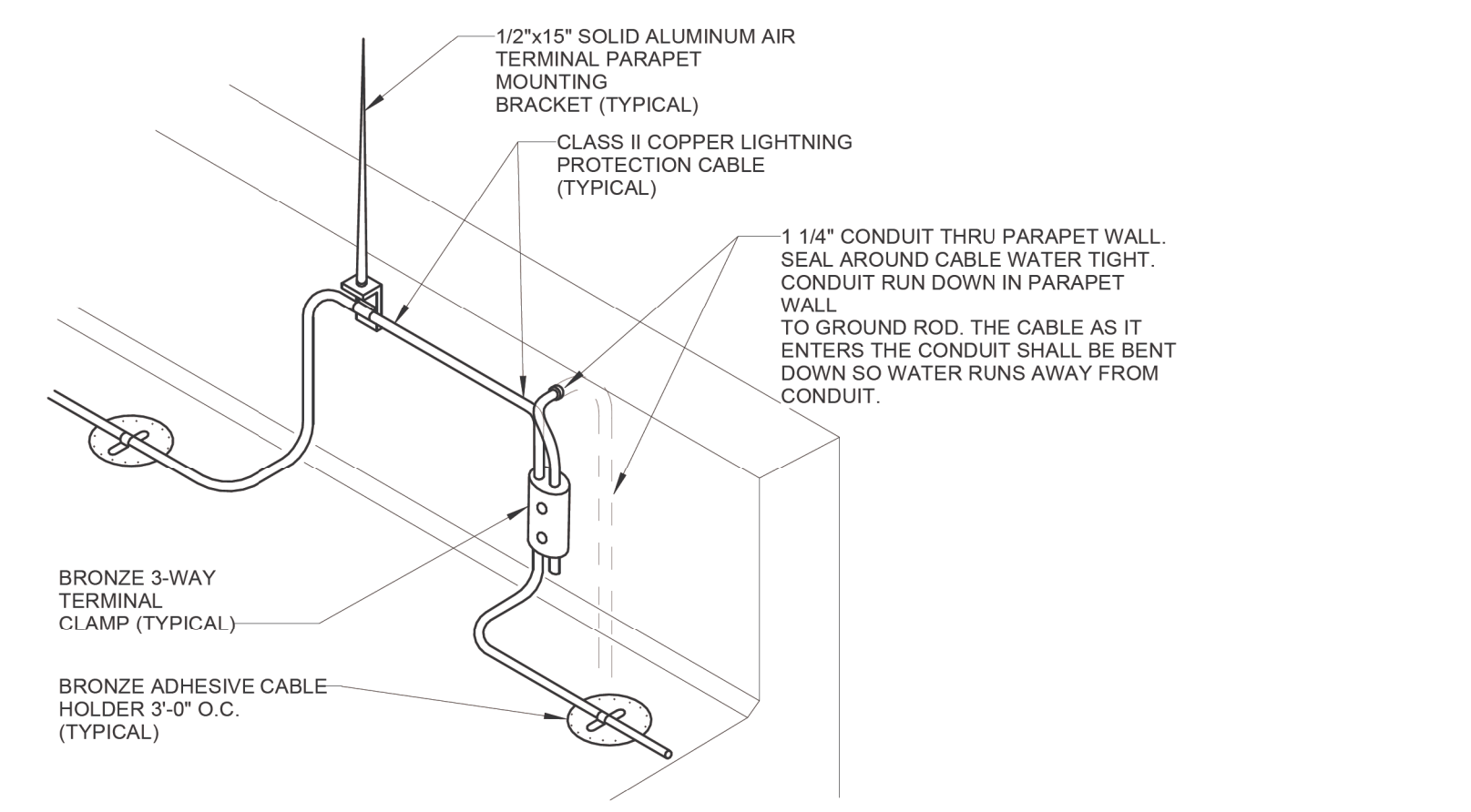
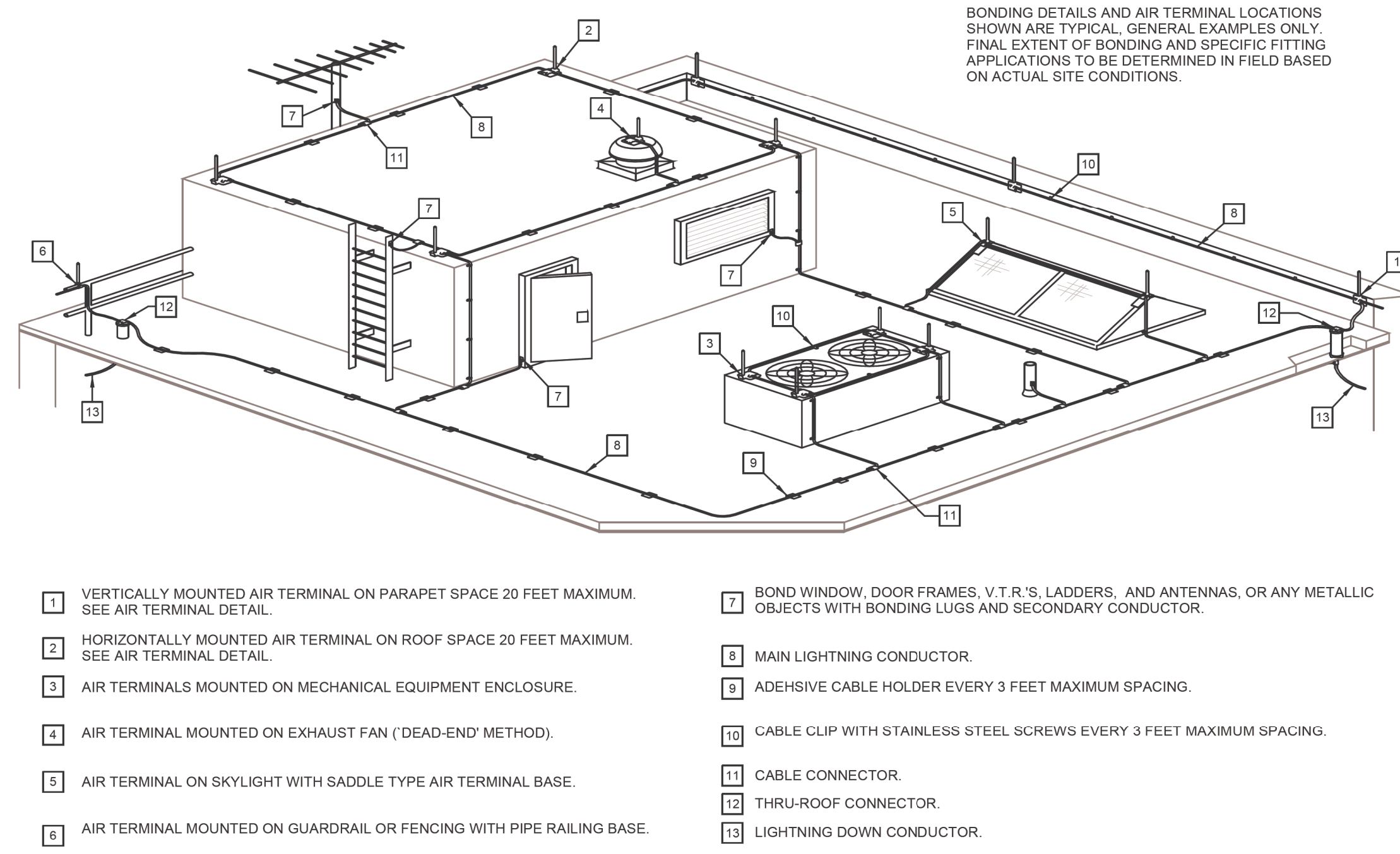
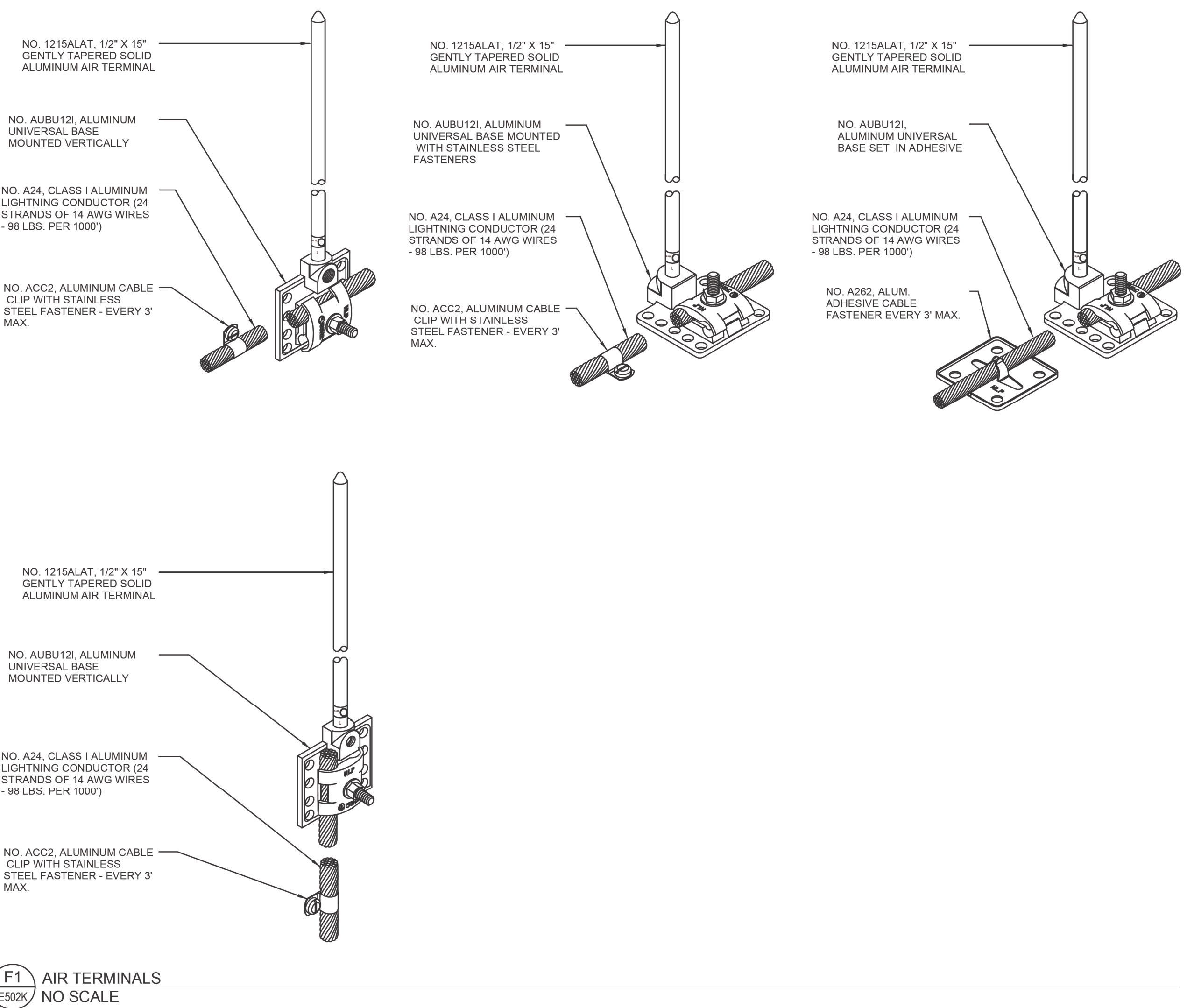
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JOHN G. MILLER
ARCHITECT
No. 1301059737
LICENSED ARCHITECT

Office of
Construction
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Management

VA U.S. Department
of Veterans Affairs

Drawing Title DETAILS
Approved:

Phase CONSTRUCTION SET
FULLY SPRINKLERED

Project Title EXPAND PHARMACY AND RADIOLOGY OSCAR G. JOHNSON VA MEDICAL CENTER
Location 325 H STREET, IRON MOUNTAIN, MI 49801
Issue Date MAY 8, 2023
Checked MLL
Drawn NMP

Project Number 585-337
Building Number 1
Drawing Number E502K DWG. 120 OF 126

AUTOMATIC LIGHTING CONTROL SCHEDULE						
DEVICE SYMBOL	DEVICE TYPE	BASIS OF DESIGN MANUFACTURER (CATALOG NUMBER)	ACCEPTABLE MANUFACTURER (MODEL SERIES)	LIGHTING DEVICE DESCRIPTION	VOLTAGE	NOTES
M \$	WALL MOTION SWITCH	ACUTY (SENSOR SWITCH) (WSX-PDT-SA-XX)	WATTSTOPPER HUBBELL LEVITON COOPER (GREENGATE)	DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, WALL MOUNTED, 5 MIN. TO 30 MIN. TIME DELAYS.	120/277 VAC	1.2
MD \$	WALL MOTION/ DIMMING SWITCH	ACUTY (SENSOR SWITCH) (WSX-PDT-D-SA-XX)	WATTSTOPPER HUBBELL LEVITON COOPER (GREENGATE)	DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, 3-10V DIMMING WALL MOUNTED, 5 MIN. TO 30 MIN. TIME DELAYS.	120/277 VAC	1.2
OS	CEILING OCCUPANCY SENSOR	ACUTY (SENSOR SWITCH) (OW-PDT-S)	WATTSTOPPER HUBBELL LEVITON COOPER (GREENGATE)	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED, SMALL MOTION 360° COVERAGE AREA, HIGH DENSITY.	24 VDC	1.2, 3.4
U \$	OCCUPANCY SENSOR (CORNER OF ROOM)	ACUTY (SENSOR SWITCH) (WW-PDT-16)	WATTSTOPPER HUBBELL LEVITON COOPER (GREENGATE)	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING OR WALL MOUNTED (CORNER OF ROOM TYP.), 120° COVERAGE AREA.	24 VDC	1.2, 3.4

NOTES:

1. ACCEPTABLE MANUFACTURER(S) MUST COMPLY WITH SPECIFICATIONS INDICATED IN LIGHTING CONTROLS DESCRIPTION. PRODUCTS NOT EQUAL IN QUALITY, TECHNOLOGY AND PERFORMANCE WILL NOT BE ACCEPTED.
2. PROVIDE POWER PACK(S) AND TRANSFORMER(S) AS REQUIRED.
3. WIRE ALL SENSORS AHEAD OF ANY SWITCHES WITHIN THE SPACE TO PROVIDE MANDATORY "OFF". ADJUST THE TIME, SENSITIVITY AND/OR DIRECTIONAL SETTINGS OF THE UNIT TO OWNER'S SATISFACTION.
4. LOCATIONS OF OCCUPANCY SENSORS SHOWN ARE DIAGRAMMATIC. ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD (BY E.C.) BASED ON FLOOR LAYOUT AND AS RECOMMENDED BY THE MANUFACTURER. PROVIDE A SPARE 5 FT. OF CONDUCTORS AT EACH SENSOR LOCATION FOR FIELD ADJUSTMENT IN FUTURE.

<p>ARCHITECT/ENGINEER OF RECORD</p> <p>bernerssch ■ ber</p> <p>Comm. Number: 6165.03 310 First Street Green Bay, WI 54301 920-432-4865 www.bernersschober.com</p> <p>ARCHITECT/ENGINEER</p>	<p>STAMP</p> 
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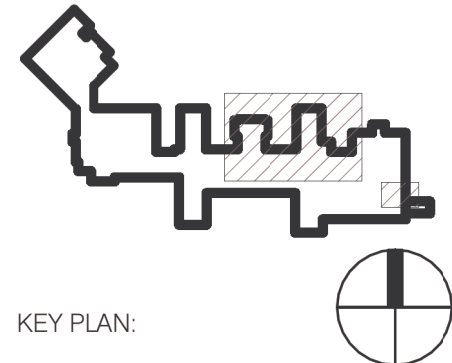
A U.S. Department
of Veterans Affairs

Phase

CONSTRUCTION SET

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Project Title EXPAND PHARMACY AND RADIOLOGY OSCAR G. JOHNSON VA MEDICAL CENTER		Project Number 585-337
Location 325 H STREET, IRON MOUNTAIN, MI 49801		Building Number 1
Issue Date MAY 8, 2023	Checked MLL	Drawn NMP
		E601K DWG. 121 OF 126



TRANSFORMER SCHEDULE											
DESIGNATION	MANUFACTURER	ROOM LOCATION	PRIMARY POWER ORIGINATION	PRIMARY BREAKER	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	TEMP. RISE	MOUNT	NOTES	
T-EHD	SQUARE-D	B231F	BUILDING 11	HVL SWITCH	1000	13.8KV	480/277V	150	FLOOR	1	
T-ELD	SQUARE-D	B231F	EHD	450A/3P	300	480V	120/208V	150	FLOOR	1	
T-LMDP	SQUARE-D	B231G	HMDP2	450A/3P	300A	480V	120/208V	150	FLOOR	1	
NOTES:											
1. BOND TRANSFORMER PER THE N.E.C. AND SPECIFICATIONS.											

AUTOMATIC TRANSFER SWITCH SCHEDULE												
DESIGNATION	MANUFACTURER	ROOM LOCATION	NORMAL POWER ORIGIN	EMERGENCY POWER ORIGIN	SERVING	VOLTS	PHASE	AMPS	POLES	RATING (AIC)	MOUNT	NOTES
							WIRE					
ATS-LSL	CUMMINS	B231G	LMDP	ELD	PNL LSL	120/208	3PH, 4W	100A	4	22K	WALL	1
ATS-CRL	CUMMINS	B231G	LMDP	ELD	PNL CRL	120/208	3PH, 4W	400A	4	32K	FLOOR	1
ATS-EQH	CUMMINS	B231F	HMDP2	EHD	PNL EQH	480/277	3PH, 4W	800A	4	65K	FLOOR	1
NOTES:												
1. CLOSED TRANSITION SWITCH. PROVIDE GENERATOR START CIRCUIT WIRING, POWER LOGIC METER/WIRING, AND CONTROL/SUPERVISORY WIRING FROM THE EXISTING COMMINS DMC PANEL (LOCATED IN BUILDING #2) PER DRAWINGS, NOTES AND SPECIFICATIONS.												

EXISTING PANEL SCHEDULE																							
PANEL DESIGNATION	MANUFACTURER	LOCATION	TYPE	BUS AMPS	MCB	MLO	VOLTAGE RATING	PHASE / WIRE	TUBS				RATING (A.I.C.)	CIRCUIT BREAKERS								NOTES	
									NO.	CKT.	TOTAL BREAKER SPACE	MOUNT		QTY.	AMP	POLE	TYPE	QTY.	AMP	POLE	TYPE		
EX EBA	SQUARE D	B299C-1	P	225	-	X	120/208	3-PHASE 4-WIRE	1	42	-	SURFACE	22K (VERIFY)	5	20	1							1
ABBREVIATIONS:																							
ECB - ENCLOSED CIRCUIT BREAKER FTL - FEED THRU LUGS GFI - GROUND FAULT CIRCUIT INTERRUPTING L - LOAD CENTER MCC - MOTOR CONTROL CENTER								P - PANELBOARD PP - POWER PANEL SFL - SUB FEED LUGS (KIT) ST - SHUNT-TRIP SP - SPARE BREAKER				SWBD - SWITCHBOARD TM - THERMAL MAGNETIC USS - UNIT SUB-STATION											
NOTES:																							
1. PROVIDE NEW BREAKER(S) FOR EXISTING PANEL. THEY SHALL BE THE SAME TYPE AND HAVE AN AIC RATING WHICH MATCHES THE EXISTING BREAKERS.																							

SPECIAL PURPOSE CONNECTION SCHEDULE																				
NO.	SERVING	VOLTS	PHASE	LOAD			ROOM / LOCATION	RECEPTACLE			DATA DROP/OUTLET		CIRCUIT	BREAKER	WIRE			CONDUIT SIZE	NOTES	
				KW	FLA	MCA		STD	GFI	ST	HEIGHT	QTY.			HEIGHT	NO.	SIZE			GND
1	T.V.S.S.	480/277	3	-	-	-		-	-	-	-	-	MHDP	60A/3P	#4	#4	#10	3/4"	1.6	
2	T.V.S.S.	480/277	3	-	-	-	B231F	-	-	-	-	-	EHD	60A/3P	#4	#4	#10	3/4"	1.6	
3	T.V.S.S.	480/277	3	-	-	-	B231F	-	-	-	-	-	ELD	60A/3P	#4	#4	#10	3/4"	1.6	
4	T.V.S.S.	480/277	3	-	-	-	B231G	-	-	-	-	-	HMDP2	60A/3P	#4	#4	#10	3/4"	1.6	
5	T.V.S.S.	480/277	3	-	-	-	B231G	-	-	-	-	-	LMDP	60A/3P	#4	#4	#10	3/4"	1.6	
6	HOOD	120	1	-	-	-	1236	-	-	-	-	-	CR1P-11	20A/1P	#2	#12	#12	1/2"	1	
7	HOOD	120	1	-	-	-	1227	-	-	-	-	-	CR1P-13	20A/1P	#2	#12	#12	1/2"	1	
8	METAL DETECTOR (WALL)	120	1	-	-	-	1250	-	-	-	-	1	48"	CR1P-21	20A/1P	#2	#12	#12	1/2"	
9	METAL DETECTOR (DOOR)	120	1	-	-	-	1250C	-	-	-	-	-	CR1P-21	20A/1P	#2	#12	#12	1/2"		
10	UPS (IN-HOUSE)	120	1	2.5	-	-	1250B	-	-	-	-	-	CR1P-25	30A/1P	#2	#10	#10	3/4"	7	
11	INTEGRAL LIGHTS & U.V.	120	1	-	-	-	2237A	-	-	-	-	-	EQ2A-13	20A/1P	#2	#12	#12	1/2"	2,3,5,8	
12	INTEGRAL LIGHTS & U.V.	120	1	-	-	-	2236A	-	-	-	-	-	EQ2A-15	20A/1P	#2	#12	#12	1/2"	2,3,5,8	
13	TEMPERATURE CONTROL PANEL (TCP)	120	1	-	-	-	2237A	-	-	-	-	1	TO PNL	CR1P-24	20A/1P	#2	#12	#12	1/2"	1.5
14	TEMPERATURE CONTROL PANEL (TCP)	120	1	-	-	-	2236A	-	-	-	-	1	TO PNL	CR1P-26	20A/1P	#2	#12	#12	1/2"	1.5
15	METAL DETECTOR (WALL)	120	1	-	-	-	1250B	1	-	-	VERIFY	1	VERIFY	CR1P-28	20A/1P	#2	#12	#12	1/2"	-
16	METAL DETECTOR (DOOR FRAME)	120	1	-	-	-	1250C	-	-	-	-	1	VERIFY	CR1P-28	20A/1P	#2	#12	#12	1/2"	-
17	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	B203	-	-	-	-	-	CR1P-34	20A/1P	#2	#12	#12	1/2"	4.5	
18	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	B231E	-	-	-	-	-	CR1P-36	20A/1P	#2	#12	#12	1/2"	4.5	
19	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	1229	-	-	-	-	-	CR1P-38	20A/1P	#2	#12	#12	1/2"	4.5	
20	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	1202B	-	-	-	-	-	CR1P-40	20A/1P	#2	#12	#12	1/2"	4.5	
21	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	1222	-	-	-	-	-	CR1P-42	20A/1P	#2	#12	#12	1/2"	4.5	
22	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	2237A	-	-	-	-	-	EQ2A-2	20A/1P	#2	#12	#12	1/2"	4,5,8	
23	TEMPERATURE CONTROL POWER SUPPLY (TCPS)	120	1	-	-	-	2236A	-	-	-	-	-	EQ2A-4	20A/1P	#2	#12	#12	1/2"	4,5,8	
24	FAUCET SENSOR	120	1	-	-	-	1224	-	-	-	-	-	CR1P-30	20A/1P	#2	#12	#12	1/2"	9	
ABBREVIATIONS:																				
STD - STANDARD				KW - KILOWATT																
GFI - GROUND FAULT INTERRUPTER				FLA - FULL LOAD AMPS																
ST - SHUNT-TRIP				MCA - MAIN CIRCUIT AMPS																
GND - GROUND																				
NOTES:																				
1. PROVIDE DIRECT CONNECTION TO DEVICE.																				
2. THE AIR UNIT INTEGRAL LIGHTS AND SWITCH(ES) ARE FURNISHED WITH THE UNIT. EC TO WIRE THE LIGHTS AND SWITCH(ES). THE AIR UNIT IS CONSTRUCTED WITH MULTIPLE SECTIONS. THUS MULTIPLE CONNECTIONS ARE REQUIRED. PROVIDE CONDUIT AND WIRING AS REQUIRED. COORDINATE WITH EQUIPMENT SUPPLIER.																				
3. THE AIR UNIT UV LIGHT MODULE AND SWITCH ARE FURNISHED WITH THE UNIT. EC TO WIRE THE UV LIGHT MODULE AND SWITCH. PROVIDE CONDUIT AND WIRING AS REQUIRED. COORDINATE WITH EQUIPMENT SUPPLIER.																				
4. PROVIDE DEDICATED CIRCUIT(S) AND TERMINATE AT A J-BOX. LOCATION COORDINATED WITH HVAC TRADE.																				
5. COORDINATE WITH HVAC TRADE FOR ALL ELECTRICAL REQUIREMENTS.																				
6. REFERENCE SPECIFICATIONS SECTION 26 43 13.																				
7. PROVIDE AN OUTLET TO MATCH THE CONFIGURATION OF THE PLUS ON THE OWNER SUPPLIED UNIT.																				
8. UTILIZE SPARE BREAKER IN PANEL INDICATED TO FEED NEW LOAD(S).																				
9. PROVIDE A GFCI OUTLET AT LOCATION COORDINATED WITH PLUMBING CONTRACTOR.																				

MOTOR SCHEDULE																								
NO.	SERVING	HP	VOLTS	PHASE	LOAD			LOCATION	PANEL CKT	BREAKER	WIRE			CONDUIT SIZE	STARTER			DISCONNECT				NOTES		
					KW	FLA	MCA				NO.	SIZE	GND		TYPE	ENCLDS. (NEMA)	BY	MOUNT	SIZE	FUSE SIZE	ENCLDS. (NEMA)		BY	MOUNT
1	MRI CHILLER	-	480	3	50	-	67	P.H. ROOF	EQH2-1,3,5	70A/3P	3	#4	#8	1"	MAG	WU	ES	WU	100A	70A	3R	EC	WU	2,7
2	AHU-32 SF-001	-	480	3	-	14.0	-	2237A	EQH2-4,6	30A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	5.6
3	AHU-33 9F-002	7.5	480	3	-	11.0	-	2236A	EQH2-13,15,17	20A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	5.6
4	DOOR OPERATOR	FRAC	120	1	-	-	-	1250	LSL-5	20A/1P	2	#12	#12	1/2"	MAG	-	ES	WU	-	-	-	-	-	2.3,4
5	DOOR OPERATOR	FRAC	120	1	-	-	-	1248	LSL-6	20A/1P	2	#12	#12	1/2"	MAG	-	ES	WU	-	-	-	-	-	2.3,4
6	DOOR OPERATOR	FRAC	120	1	-	-	-	1247	LSL-7	20A/1P	2	#12	#12	1/2"	MAG	-	ES	WU	-	-	-	-	-	2.3,4
7	F-001	1/4	120	1	-	-	-	P.H. ROOF	CR1P-23	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	-	ES	WU	6
8	AHU-32 RF-001	6.2	480	3	-	8.7	-	2237A	EQH2-7,9,11	20A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	5.6
9	AHU-32 RF-001	6.2	480	3	-	8.7	-	2237A	EQH2-8,10,12	20A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	5.6
10	AHU-33 RF-002	4.0	480	3	-	6.2	-	2236A	EQH2-14,16,18	15A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	5.6
11	AHU-33 RF-002	4.0	480	3	-	6.2	-	2236A	EQH2-19,21,23	15A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	5.6
12	CDQ WHEEL	FRAC	480	3	-	0.07	-	2236A	EQH2-20,22,24	15A/3P	3	#12	#12	3/4"	VFD	INT	ES	OU	20A	-	1	EC	WU	6
13	F-004	1/4	120	1	-	-	-	P.H. ROOF	CR1P-27	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	-	ES	WU	6
14	F-006	1/4	120	1	-	-	-	P.H. ROOF	CR1P-29	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	-	ES	WU	6
15	F-002	1/2	120	1	-	-	-	2237A	CR1P-31	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	-	ES	WU	6
16	F-003	1/2	120	1	-	-	-	2236A	CR1P-33	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	-	ES	WU	6
17	F-005	1/2	120	1	-	-	-	1250B	CR1P-32	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	1	EC	WU	6
18	F-007	3	480	3	-	4.8	-	B231G	EQH	15A/3P	3	#12	#12	3/4"	VFD	-	ES	WU	-	-	-	-	-	6
19	F-008	1/2	120	1	-	-	-	B231G	CR1P-34	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	1	EC	WU	6
20	UH-001	FRAC	120	1	-	-	-	2237A	L1A-2A-A-32	20A/1P	2	#12	#12	1/2"	MAN	1	EC	WU	-	-	-	-	-	1.6
21	UH-002	FRAC	120	1	-	-	-	2236A	L1A-2A-A-38	20A/1P	2	#12	#12	1/2"	MAN	1	EC	WU	-	-	-	-	-	1.6
22	LIEBERT UNIT	-	480	3	-	-	25.4	1250A	EQH	30A/3P	3	#10	#10	3/4"	MAG	-	ES	WU	30A	30A	1	ES	WU	6
23	CONDENSING UNIT	-	480	3	-	10.3	12.5	MRI ROOF	EQH2-25,27,29	20A/3P	3	#12	#12	3/4"	MAG	-	ES	WU	30A	20A	3R	EC	WU	6
24	SUMP PUMP (DUPEX)	1/2 EA	208	1	-	-	-	B203C	CR1P-44,46	30A/2P	2	#12	#12	1/2"	MAG	-	ES	WU	30A	20A	1	EC	WU	8,9
25	UH-003	FRAC	120	1	-	-	-	3332	L1A-2A-A-40	20A/1P	2	#12	#12	1/2"	MAN	1	EC	WU	-	-	-	-	-	1.6
26	F-009	FRAC	120	1	-	-	-	3332(R)	L1A-2A-A-40	20A/1P	2	#12	#12	1/2"	-	-	-	-	20A	-	3R	ES	OU	6
27	DOOR OPERATOR	FRAC	120	1	-	-	-	1249	LSL-8	20/1P	2	#12	#12	1/2"	MAG	-	ES	WU	-	-	-	-	-	2,4
28	LIEBERT UNIT	-	480	3	-	-	25.4	1250A	EQH-	3A/3P	3	#10	#10	3/4"	MAG	-	ES	WU	30A	30A	1	ES	WU	6
29	CONDENSING UNIT	-	480	3	-	10.3	12.5	MRI ROOF	EQH2-	20A/3P	3	#12	#12	3/4"	MAG	-	ES	WU	30A	20A	3R	EC	WU	6
30	SUMP PUMP (DUPEX)	1/2 EA	208	1	-	-	-	B231G	CR1P-37,39	30A/2P	2	#12	#12	1/2"	MAG	-	ES	WU	30A	20A	1	EC	WU	8,9
ABBREVIATIONS:																								
COMB - COMBINATION STARTER/FUSED DISCONNECT								IWS - INTEGRAL WITH STARTER				EG - ELECTRICAL CONTRACTOR												
MAG - MAGNETIC STARTER								SS - SOLID STATE, REDUCED VOLTAGE STARTER				ES - EQUIPMENT SUPPLIER												
MAN - MANUAL STARTER								NU - NEAR UNIT				HVAC - HEATING/VENTILATING CONTRACTOR												
VFD - VARIABLE FREQUENCY DRIVE								OU - ON UNIT				PLOC - PLUMBING CONTRACTOR												
TS - TOSSELE SWITCHHORSE POWER RATED SWITCH								WU - WITH UNIT				EX - EXISTING												
NOTES:																								
1. UTILIZE EXISTING SPARE BREAKER IN PANEL INDICATED.																								
2. PROVIDE ALL CONDUIT, BACK BOXES AND WIRING REQUIRED FOR A COMPLETE INSTALLATION.																								
3. PROVIDE INTERFACE WITH FIRE ALARM SYSTEM TO CUT POWER TO THE OPERATOR MOTOR ON INITIATION OF FIRE ALARM IN SMOKE ZONE. PROVIDE RELAYS, CONDUIT, AND WIRING AS REQUIRED. CONNECT RELAY TO AUTOMATIC DOOR OPERATOR.																								
4. PROVIDE ALL CONDUIT AND WIRING AS REQUIRED BETWEEN PUSH PAD, DOOR OPERATOR AND DOOR SECURITY, IF APPLICABLE. COORDINATE EXACT REQUIREMENTS WITH DOOR HARDWARE SUPPLIER.																								
5. PROVIDE INTERFACE WITH FIRE ALARM DUCT DETECTOR. REFERENCE DETAIL C3E501K.																								
6. COORDINATE WITH HVAC TRADE FOR ELECTRICAL REQUIREMENTS.																								
7. COORDINATE WITH MEDICAL EQUIPMENT VENDOR.																								
8. COORDINATE WITH PLUMBING TRADE FOR ALL ELECTRICAL REQUIREMENTS.																								
9. LOCATE THE FUSED DISCONNECT AT THE SUMP CONTROL PANEL.																								

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PANEL I.D. CR1P	AMPS	200A	MAIN CB AMPS:								PROJECT NAME:				6163.03 Expand Pharmacy & Radiology				BREAKERS	
	PHASE	3	A.I.C. RATING:			ENCLOSURE:					MOUNT:				LOCATION: 1227				54 ckt	
	WIRE	4	MLO	SFL	FTL						RECESSED				FED FROM: CRL					
	VOLTAGE	120/208	X	1 x 54 ckt																
TYPE	CIRCUIT DESIGNATION	WATTS			BREAKER		CKT #	CKT #	BREAKER		WATTS			CIRCUIT DESIGNATION			TYPE			
		A	B	C	AMP	POLE			AMP	POLE	A	B	C							
R	1201B	900	-	-	20	1	1	2	20	1	1080	-	-	1202C, 1202B		R				
R	1222, 1225	-	1260	-	20	1	3	4	20	1	-	1000	-	1225-FRIDGE		R				
R	1225-FREEZER	-	-	1000	20	1	5	6	20	1	-	-	500	1225-PRINTER		R				
R	1227-FREEZER	1000	-	-	20	1	7	8	20	1	1000	-	-	1227-FRIDGE		R				
R	1227, 1237	-	1440	-	20	1	9	10	20	1	-	1440	-	1237, 1234A		R				
X	SPC 6 Hood			500	20	1	11	12	20	1	-	-	540	1201B		R				
X	SPC 7 Hood	500			20	1	13	14	20	1	720	-	-	1250B		R				
R	1250C, 1250A	-	720	-	20	1	15	16	20	1		360		1201B		R				
R	1222			360	20	1	17	18	20	1			180	1105 monitor		R				
R	1201B	540			20	1	19	20	20	1	500			1248 Blanket warmer		X				
X	SPC 8 and SPC 9 Mag. Det.		360		20	1	21	22	20	1		500		1222 Fridge		X				
M	Mtr 13 F-007			696	20	1	23	24	20	1			180	TCP SPC 8		X				
X	SPC 10 UPS	2500			30	1	25	26	20	1	180			TCP SPC 9		X				
M	Mtr 14 F-006		696		20	1	27	28	20	1		360		SPC 10 and 11 Metal detectors		X				
M	Mtr 7 F-001			696	20	1	29	30	20	1			360	TELE-POWER POLE, SPC 24		R				
M	Mtr 15 F-002	1176			20	1	31	32	20	1	1176			Mtr 17 F-005		M				
M	Mtr 16 F-003		1176		20	1	33	34	20	1		500		SPC 17 TCPS		X				
X	Blanket Warmer in 1248			1200	20	1	35	36	20	1		500		SPC 18 TCPS		X				
M	Sump Pump MTR 30	1144			30	2	37	38	20	1	500			SPC 19 TCPS		X				
M			1144				39	40	20	1		500		SPC 20 TCPS		X				
X	Door Air Compressor			180	20	1	41	42	20	1			500	SPC 21 TCPS		X				
	Spare				20	1	43	44	30	2	1144			Mtr 24 Sump Pump		M				
	Spare				20	1	45	46			1144					M				
	Spare				20	1	47	48	20	1			360	TELE-POWER POLE		R				
	Spare				20	1	49	50	20	1				Spare						
L	First Floor Addition		423		20	1	51	52	20	1				Spare						
L	MRI Room 1253			736	20	1	53	54	20	1				Spare						
TOTAL LINE-NEUTRAL (WATTS)		7760	7219	5368	TOTAL LOAD (W):				35571		6302	5804	3120	TOTAL LINE-NEUTRAL (WATTS)						
TOTAL CONNECTED LOAD (KW)		36			POWER FACTOR:				0.90		TOTAL ESTIMATED CONNECTED (kVA):				37					
TOTAL CONNECTED AMPS		99									TOTAL EST. AMPS CONNECT/ DEMAND:				110	102				
TOTALS BY TYPE: (IN WATTS)	R (RECEPTACLES)				14760		ESTIMATED DEMAND BY TYPE: (IN WATTS & DEMAND FACTOR %)				12380		84%	NOTES:						
	L (LIGHTING)				1159						1159		100%							
	M (MOTORS)				10192						10192		100%							
	X (MISC. EQUIP)				9460						9460		100%							
	A (AC)				0						0		100%							
	E (ELEC. HEAT)				0						0		100%							

PANEL I.D. LSL	AMPS	100A	MAIN CB AMPS:					PROJECT NAME:					6163.03 Expand Pharmacy & Radiology			BREAKERS	
	PHASE	3	A.I.C. RATING:					ENCLOSURE:					MOUNT:		LOCATION: B231G		
	WIRE	4	MLO	SFL	FTL						SURFACE		FED FROM: ATS-LSL				
	VOLTAGE	120/208	X	1 x 30 ckt													
TYPE	CIRCUIT DESIGNATION	WATTS			BREAKER		CKT #	CKT #	BREAKER		WATTS			CIRCUIT DESIGNATION	TYPE		
		A	B	C	AMP	POLE			AMP	POLE	A	B	C				
L	Exits Basement	15				20	1	1	2	20	1	36		Exits First Floor	L		
L	Egress Lighting Basement		400			20	1	3	4	20	1	472		Egress Lighting First Floor	L		
M	MTR#4 - DOOR OPENER	-	-	1440		20	1	5	6	20	1	-	-	1440	MTR#5 - DOOR OPENER	M	
M	MTR#6 - DOOR OPENER	1440	-	-		20	1	7	8	20	1	1440		MTR#27- DOOR OPENER	M		
	Spare					20	1	9	10	20	1			Spare			
	Spare					20	1	11	12	20	1			Spare			
	Spare					20	1	13	14	20	1			Spare			
	Spare					20	1	15	16	20	1			Spare			
	Spare					20	1	17	18	20	1			Spare			
	Spare					20	1	19	20	20	1			Spare			
								21	22								
								23	24								
								25	26								
								27	28								
								29	30								
TOTAL LINE-NEUTRAL (WATTS)		1405	400	1440	TOTAL LOAD (W):					6663		1476	472	1440	TOTAL LINE-NEUTRAL (WATTS)		
TOTAL CONNECTED LOAD (KW)		7			POWER FACTOR:					0.90		TOTAL ESTIMATED CONNECTED (kVA):			7		
TOTAL CONNECTED AMPS		19										TOTAL EST. AMPS CONNECT/ DEMAND:			21 21		
TOTALS BY TYPE: (IN WATTS)		R (RECEPTACLES)			0		ESTIMATED DEMAND BY TYPE: (IN WATTS & DEMAND FACTOR %)					0		100%		NOTES:	
		L (LIGHTING)			923							923		100%			
		M (MOTORS)			5760							5760		100%			
		X (MISC. EQUIP)			0							0		100%			
		A (AC)			0							0		100%			
		E (ELEC. HEAT)			0							0		100%			

PANEL CRL	AMPS	400A	MAIN CB AMPS:				32K				PROJECT NAME: Pharmacy and Radiology						BREAKERS	
	PHASE	3	A.I.C. RATING:				ENCLOSURE: I-line				MOUNT:				LOCATION: B231G			
	WIRE	4	MLO	SFL	FTL					Surface				FED FROM: ATS-CRL				
	VOLTAGE	120/208	X															
TYPE	CIRCUIT DESIGNATION	WATTS			BREAKER		CKT #	CKT #	BREAKER		WATTS			CIRCUIT DESIGNATION	TYPE			
		A	B	C	AMP	POLE			AMP	POLE	A	B	C					
X	PNL CR1P	9333			150	3			200	3				Spare				
X			9333															
X				9333														
	Space Only				100	3			100	3				Space Only				
														</				

P

A

B

C

D

E

F

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PANEL HMDP	AMPS	1600A			MAIN CB AMPS:			1600A w/GFCI			PROJECT NAME:			Pharmacy and Radiology			BREAKERS					
	PHASE	3			A.I.C. RATING:			100K			MOUNT: Floor			LOCATION: 3rd FLOOR PH FED FROM: Utility Co								
	WIRE	4			MLO	SFL	FTL	ENCLOSURE: SWBD Type 1														
	VOLTAGE	277/480																				
TYPE	CIRCUIT DESIGNATION				WATTS			BREAKER		CKT #	CKT #	BREAKER		WATTS			CIRCUIT DESIGNATION				TYPE	
		A	B	C	AMP	POLE					AMP	POLE		A	B	C						
X	SWBD HMDP2 (Solid State				110714						200	3		42122				Back Feed Exterior MRI Outlet				X
X	w(GFCI)						110714										42122					X
X	SPARE										200	3		100	3			SPARE				
	SPACE ONLY										400	3										

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PANEL EHD	AMPS	1200			MAIN CB AMPS:			1200A			PROJECT NAME:			6163.03 Expand Pharmacy & Radiology			BREAKERS		
	PHASE	3			A.I.C. RATING:			100K			MOUNT: Floor			LOCATION: B231F FED FROM: 13.8KV EM Building 11					
	WIRE	4			MLO	SFL	FTL	ENCLOSURE: SWBD Type 2 Draw Out Breakers											
	VOLTAGE	277/480																	
TYPE	CIRCUIT DESIGNATION				WATTS		BREAKER		CKT #	CKT #	BREAKER		WATTS			CIRCUIT DESIGNATION		TYPE	
M	ATS-EQH	88048		B	C	AMP	POLE				450	3	22966	A	B	C	Trans T-ELD	X	
M				88040											22966			X	
M					88048											22966		X	
	Space Only					200	3				200	3					Space Only		

PROJECT GENERAL PLAN NOTES

1. REFERENCE THE DEVICE HEIGHT LEGEND ON THIS SHEET FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES(S).

2. MAINTAIN EXISTING POWER AND LIGHTING CIRCUIT(S) IN SERVICE. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DISRUPTION TO THESE CIRCUIT(S). PROVIDE CONDUIT AND WIRING AS REQUIRED.

3. GC IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF CEILING TILES. GC TO REPLACE ANY DAMAGED TILES.

4. EC TO PROVIDE NEW SUPPORTS FOR NEW CABLING PER SPECIFICATIONS. UTILIZE EXISTING CABLE TRAY AND/OR J-HOOKS AS FEASIBLE.

5. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE SEALED PER SPECIFICATIONS BY FIRE STOPPING TRADE. EC SHALL COORDINATE WITH GC AND FIRE STOPPING TRADE.

6. ALL PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED PER SPECIFICATIONS BY EC.

7. ALL PENETRATIONS THROUGH THE FLOOR SHALL BE FIRE SEALED PER SPECIFICATIONS. EC SHALL COORDINATE WITH GC AND FIRE STOPPING TRADE. EC SHALL AVOID CORING/CUTTING THROUGH BEAMS AND JOISTS UNLESS APPROVED BY STRUCTURAL ENGINEER.
8. PROVIDE NEW FIRE ALARM DEVICE(S) PER SPECIFICATIONS UNLESS OTHERWISE NOTED. REFERENCE THE SYSTEMS PLANS(S).

9. PROVIDE NEW PUBLIC ADDRESS SYSTEM DEVICE(S) PER SPECIFICATIONS UNLESS OTHERWISE NOTED. REFERENCE THE SYSTEMS PLANS(S).

10. EC TO SUB-CONTRACT WITH JCI TO PROVIDE NEW CARD ACCESS SYSTEM DEVICE(S) PER SPECIFICATIONS UNLESS OTHERWISE NOTED. REFERENCE THE SYSTEMS PLANS(S).

11. EC TO SUB-CONTRACT WITH JCI TO PROVIDE NEW CAMERAS. PER SPECIFICATIONS UNLESS OTHERWISE NOTED. REFERENCE THE SYSTEMS PLANS(S).

12. PROVIDE NEW NURSE CALL DEVICE(S) PER SPECIFICATIONS UNLESS OTHERWISE NOTED. REFERENCE THE NURSE CALL ROUGH-IN SCHEDULE ON FOR NEW DEVICE REQUIREMENTS. REFERENCE THE SYSTEMS PLANS(S).

13. ALL LIGHT SWITCH(ES), RECEPTACLE(S), TELECOM DEVICE(S), BLANK BOX(ES), AND NURSE CALL DEVICE(S) SHALL BE COORDINATED AND CONFIRMED WITH THE OWNER PRIOR TO ROUGH-IN.

DEVICE MOUNTING HEIGHT LEGEND

DESCRIPTION	MOUNTING HEIGHT
LIGHT SWITCH	45 5/8" CENTERED AFF.
OCCUPANCY SENSOR WALL SWITCH	45 5/8" CENTERED AFF.
PUSHBUTTON SWITCH	42" CENTERED AFF.
PUSHBUTTON (EMERGENCY STOP)	48" CENTERED AFF.
RECEPTACLES - ABOVE COUNTER	18" CENTERED AFF.
RECEPTACLES - HIGH MOUNT	6" CENTERED ABOVE COUNTER 4" CENTERED ABOVE BACKSPLASH OR AS NOTED ON PLAN
BLANK BOX	18" CENTERED AFF. OR AS NOTED ON PLAN
DATA/VOICE OUTLET - STANDARD HEIGHT	18" CENTERED AFF.
DATA/VOICE OUTLET - ABOVE COUNTER	6" CENTERED ABOVE COUNTERTOP OR 4" CENTERED ABOVE BACKSPLASH
WALL TELEPHONE	45 5/8" CENTERED AFF.
INTERCOM	45 5/8" CENTERED AFF.
CATV OUTLET	18" CENTERED AFF. OR AS NOTED ON PLAN
CATV OUTLET W/ PILLOW SPKR CTRL JACK	18" CENTERED AFF. OR AS NOTED ON PLAN
FAN SPEED SWITCH	45 5/8" CENTERED AFF.
MONITOR DATA OUTLET	18" CENTERED AFF. OR AS NOTED ON PLAN
FIRE ALARM PULL STATION	45 5/8" CENTERED AFF.
FIRE ALARM AUDIO/VISUAL DEVICES	80" AFF. TO BOTTOM OF UNIT MINIMUM. MAXIMUM 96" AFF.
FIRE ALARM VISUAL DEVICES	80" AFF. TO BOTTOM OF UNIT MINIMUM. MAXIMUM 96" AFF.
FIRE ALARM REMOTE TEST SWITCH	48" CENTERED AFF.
SPEAKER (WALL MOUNTED)	80" AFF. TO BOTTOM OF DEVICE.
PA HORN WALL SPEAKER	80" AFF. TO BOTTOM OF DEVICE. OR AS NOTED OTHERWISE
VOLUME CONTROL	45 5/8" CENTERED AFF.
MICROPHONE JACK	18" CENTERED AFF. OR AS NOTED ON PLAN
DIGITAL CLOCK	CENTERED 18" TO 9" BELOW CEILING.
CLOCK/SPEAKER	CENTERED 18" TO 9" BELOW CEILING.
WALL CLOCK	CENTERED 18" TO 9" BELOW CEILING.
CARD READER	45 5/8" CENTERED AFF.
NURSE CALL DOME LIGHT	CENTERED ABOVE DOOR.
NURSE CALL (EM) PULL STATION	(TOILET) 48" AFF. WITH CORD 6" AFF. (SHOWER) 60" AFF. WITH CORD 6" AFF.
NURSE CALL CODE BLUE	54" CENTERED AFF.
NURSE CALL DUTY STATION	54" CENTERED AFF.
NURSE CALL STANDARD STATION	54" CENTERED AFF.
NURSE CALL GRAPHICAL STATION	54" CENTERED AFF.
NURSE CALL CALL CORD	54" CENTERED AFF.
NURSE CALL MASTER STATION	AT DESK, EXACT LOCATION TO BE FIELD VERIFIED.
RESCUE ASSISTANCE CALL STATION	45 5/8" CENTERED AFF.

LEGEND NOTES:

1. THE ABOVE LIST OF MOUNTING HEIGHTS SHALL BE USED FOR INSTALLATION OF DEVICES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. EXACT MOUNTING HEIGHTS OF DEVICES MAY BE SLIGHTLY ADJUSTED IN THE FIELD TO ACCOMMODATE BLOCK COURSES AND UNIFORMITY OF THE WALL. REFERENCE DEVICE MOUNTING DETAIL --E500.
3. THE ABOVE ITEMS COMPRISE A COMPLETE LIST AND NOT ALL ITEMS MAY BE APPLICABLE TO THIS PROJECT.

ABBREVIATIONS

A	AMPER(S)
A/C	AIR CONDITIONING UNIT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ANTICIPATED INTERRUPTING CURRENT
AL	ALTERNATE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKT	BREAKER
BW	BLANKET WARMER
C	CONDUIT
CAPS	CARD ACCESS POWER SUPPLY
CATV	CABLE ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
COFF	COFFEE MACHINE
CO	CURRENT TRANSFORMER
DIST	DISTRIBUTION
DO	DOOR OPERATOR
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FA	FIRE ALARM
FDR	FEEDER
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FSC	FOOD SERVICE CONTRACTOR
GC	GENERAL CONTRACTOR
GEI	GENERATOR
GF	GROUND FAULT INTERRUPTER
GND	GROUND
HID	HIGH DENSITY DISCHARGE
HP	HORSE POWER
HVAC	HEATING, VENTILATING, A/C CONTRACTOR
HWR	HEAVY WALL RIGID CONDUIT
ICE	ICE MACHINE
IMC	INTERMEDIATE METALLIC CONDUIT
J-BOX	JUNCTION BOX
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLTS
KVA	KILOVOLT AMPERE(S)
KW	KILOWATT(S)
LCP	LIGHTING CONTROL PANEL
MCA	MAIN CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MIL(S)
MDP	MAIN DISTRIBUTION PANEL
MGP	MEDICAL GAS ALARM PANEL
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
NAP	NITROGEN ALARM PANEL
N.E.C.	NATIONAL ELECTRIC CODE
NOT IN CONTRACT	NOT IN CONTRACT
NTS	NOT TO SCALE
OH	OVERHEAD
PLOC	PLUMBING CONTRACTOR
PNL	PANEL
PRESS	PRESSURE MONITOR
PRI	PRIMARY
PNTR	PRINTER
PTZ	PAN, TILT, ZOOM
PVC	POLYVINYL CHLORIDE
RI	RECEPTACLE
REF	REFRIGERATOR
RT	RAIN TIGHT
SCP	SUMP PUMP CONTROL PANEL
SEC	SECONDARY
SHPS	SECURITY HARDWARE POWER SUPPLY
SPC	SPECIAL PURPOSE CONNECTION
SWBD	SWITCHBOARD
TC	TIME CLOCK
TCC	TEMPERATURE CONTROL CONTRACTOR
TCF	TEMPERATURE CONTROL PANEL
TCPS	TEMPERATURE CONTROL POWER SUPPLY
TELE	TELEPHONE
TR	TOASTER
TVS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
UH	UNIT HEATER
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SYSTEM
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

NOTE:

- * THIS COMPRISES A COMPLETE LIST OF ITEMS. NOT ALL ABBREVIATIONS MAY NECESSARILY BE REPRESENTED ON THIS PROJECT.

ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION (MOUNTING)	SYMBOL	DESCRIPTION (MOUNTING)	SYMBOL	DESCRIPTION (MOUNTING)	SYMBOL	DESCRIPTION (MOUNTING)
LIGHTING FIXTURES				COMMUNICATIONS EQUIPMENT			
	SURFACE/PENDANT FIXTURE (2)		POWER METER OR TRANSOCKET		DATA/VOICE/CATV RACK		MANUAL PULL STATION (NEW, EXISTING)
	SCONCE/WALL MOUNT FIXTURE (2)		PANELBOARD (EXISTING, NEW) (12)		WALL MOUNTED DATA/VOICE CABINET		STROBE ONLY (NEW, EXISTING) (10)
	RECESSED DOWN LIGHT FIXTURE (2)		ENCLOSED CIRCUIT BREAKER (ECB) (EXISTING, NEW) (12)		TELEPHONE PEDESTAL		HORN (NEW, EXISTING)
	WALL WASH DOWN LIGHT FIXTURE (2)		GENERATOR ANNUNCIATOR PANEL (GAP) (EXISTING, NEW)		DATA, VOICE OR COMB. VOICE/DATA OUTLET(S) - STANDARD HEIGHT(1,7)		CHIME (NEW, EXISTING)
	RECESSED CEILING FIXTURE - 2X4, 2X2, 1X4 (2)		ATS ANNUNCIATOR PANEL (ATS) (EXISTING, NEW)		DATA, VOICE OR COMB. VOICE/DATA OUTLET(S) - ABOVE COUNTER (1,7)		SPEAKER (NEW, EXISTING)
	SURFACE CEILING FIXTURE - 2X4, 2X2, 1X4 (2)		LINE ISOLATION MONITOR (REMOTE)		DATA, VOICE OR COMB. VOICE/DATA OUTLET(S) (FLOOR, CEILING)(1,7)		HORN/STROBE (NEW, EXISTING)(10)
	RECESSED LINEAR / RECESSED CONTINUOUS LINEAR FIXTURE (2)		BUSWAY		WALL TELEPHONE [VOICE/DATA] OUTLET(1)		CHIME/STROBE (NEW, EXISTING)(10)
	UNDERCABINET LIGHT/NARROW STRIP LIGHT(2)		TRANSFORMER (12)		MONITOR DATA OUTLET (1 DROP) - STANDARD HEIGHT (1)		SPEAKER/STROBE (NEW, EXISTING)(10)
	WALL MOUNTED (2)		AUTOMATIC TRANSFER SWITCH (12)		MONITOR DATA OUTLET (1 DROP) - ABOVE COUNTER (1)		FIRE SPRINKLER BELL
	RECESSED CEILING FIXTURE WITH CENTER ELEMENT - 2X4, 2X2, 1X4(2)		ELECTRIC MOTOR (12)		AUDIO/VISUAL MONITOR/TV (1)		HORN LOUDSPEAKER
	FIXTURE CONNECTED TO EMERG. CRITICAL/EQUIP. BRANCH POWER(2)		DISCONNECT SWITCH - FUSED, NON-FUSED		WIRELESS DATA ACCESS POINT (CEILING, WALL)(8)		CEILING MOUNTED STROBE (10)
	FIXTURE CONNECTED TO EMERGENCY LIFE SAFETY BRANCH POWER		MAGNETIC STARTER		CELL PHONE SIGNAL BOOST		CEILING MOUNTED SPEAKER/STROBE(10)
	FIXTURE CONNECTED TO EMERGENCY AND NORMAL POWER (2)		MANUAL STARTER		CATV OUTLET (WALL, CEILING)		CEILING MOUNTED HORN/STROBE (10)
	TRACK LIGHTING (2)		COMBINATION MAGNETIC STARTER/DISCONNECT		CATV OUTLET W/ PILLOW SPEAKER CONTROL JACK (WALL, CEILING)		CEILING MOUNTED CHIME/STROBE (10)
	EXIT SIGN - SINGLE FACE (CEILING, WALL)		SOLID STATE, REDUCED VOLTAGE STARTER		INTERCOM		CEILING SPEAKER, RECESSED
	EXIT SIGN - DOUBLE FACE (CEILING, WALL)		VARIABLE FREQUENCY DRIVE		INTERCOM (MASTER)		SMOKE DETECTOR (NEW, EXISTING)
	WARNING LIGHT (CEILING, WALL) (2)		RELAY CONTACTOR	SOUND SYSTEM DEVICES			
	EMERGENCY BATTERY PACK (WALL, CEILING) (2)		POWER SUPPLY - WALL, CEILING		PAGING SPEAKER, CEILING MOUNTED (RECESSED, SURFACE)		SMOKE DETECTOR FOR ELEVATOR CONTROL (NEW, EXISTING)
EXTERIOR LIGHTING					SOUND SPEAKER, CEILING MOUNTED (RECESSED, SURFACE)		HEAT/THERMAL DETECTOR (NEW, EXISTING)
	FLOOD LIGHT (2)		OUTDOOR UTILITY POLE		SOUND SPEAKER, WALL MOUNTED		DUCT SMOKE DETECTOR (NEW, EXISTING)(9)
	BOLLARD(2)	WIRING DEVICES			DOOR HOLD OPEN (NEW, EXISTING)		SPRINKLER TAMPER SWITCH (NEW, EXISTING)
	POLE TOP MOUNTED LUMINAIRE (2)		SWITCH - 1, 2 POLE: 3, 4 WAY (4)		P.A. HORN SPEAKER, WALL MOUNTED		SPRINKLER WATER FLOW SWITCH (NEW, EXISTING)
	POLE ARM MOUNTED LUMINAIRE(S) (2)		KEY SWITCH - 1, 2 POLE: 3, 4 WAY (4)		MIC JACK (WALL, FLOOR, CEILING MT.)		MONITORING / CONTROL MODULE
AUTOMATIC LIGHTING CONTROLS					SPEAKER VOLUME CONTROL		REMOTE TEST SWITCH W/ INDICATOR (WALL, CEILING)
	OCCUPANCY SENSOR, WALL SWITCH (3)		WALL BOX DIMMER SWITCH (INCANDESCENT) (4)		AMPLIFIER		FIRE ALARM CONTROL PANEL (NEW, EXISTING)
	OCCUPANCY SENSOR, WALL MOUNT (3)		WALL BOX DIMMER SWITCH (FLUORESCENT) (4)		RECIEVER		FIRE ALARM ANNUNCIATOR PANEL (NEW, EXISTING)
	OCCUPANCY SENSOR, CEILING (3)		SWITCH W/ PILOT LIGHT (4)		ANTENNA		FIRE ALARM TRANSPONDER PANEL (NEW, EXISTING)
	OCCUPANCY SENSOR, CEILING (3)		SPRING WOUND TIMER SWITCH		PUBLIC ADDRESS AMPLIFIER & CONTROL (PAAC HEAD-END)	NURSE CALL SYSTEM DEVICES (Hill-rom)	
	LIGHT SENSOR		FAN SPEED SWITCH	SECURITY EQUIPMENT			
	PHOTOCELL		DIMMER SYSTEM COMPONENT		MOTION DETECTOR		NURSE CALL SYSTEM (P.O.E. SWITCH)(12)
	TIME CLOCK		LOW VOLTAGE SWITCH/RELAY CONTROL SWITCH		REQUEST TO EXIT		MASTER STATION (12)
	LOW VOLTAGE SWITCHING RELAY PANEL (12)		FOOT SWITCH (LIGHTING CONTROL)		DOOR ALARM KEY BY-PASS SWITCH		MINI MASTER STATION
RACEWAYS					DOOR SWITCH / POSITION SWITCH		STANDARD ROOM STATION (12)
	CONDUIT STUBBED OR CAPPED		PUSHBUTTON SWITCH/PUSH PAD		CARD READER		STANDARD ROOM STATION W/ CODE BLUE (12)
	CONDUIT RISING UP		EMERGENCY STOP PUSHBUTTON		ELECTRIC STRIKE		GRAPHICAL ROOM STATION (12)
	CONDUIT DROPPING DOWN		PUSHBUTTON SWITCH (2-BUTTON, 3-BUTTON)		MAGNETIC LOCK		GRAPHICAL ROOM STATION W/ CODE BLUE(12)
	CONDUIT SLEEVES THRU WALL ABOVE ACCESSIBLE CEILING		SINGLE RECEPT. (NORMAL, EMERG.) - STANDARD HEIGHT (5,6)		ELECTRIC LOCK		DUTY STATION
	UNSWITCHED CIRCUIT CONNECTION		SINGLE RECEPT. (FLOOR, CEILING) (5,6)		ELECTRIC LATCH RETRACTION		DUTY STATION W/ CODE BLUE
	COMBINATION POWER/COMMUNICATION POLE		DUPLEX RECEPT. (NORMAL, EMERG.) - STANDARD HEIGHT (5,6)		ELECTRIC HINGE		AUDIO STATION BED CONNECTOR (12)
	CABLE TRAY		DUPLEX RECEPT. (NORMAL, EMERG.) - AC OR HIGH MT.(5,6)		SECURITY BELL/ALARM		BED INTERFACE UNIT (12)
	JUNCTION & PULL BOX		DUPLEX RECEPT. (FLOOR, CEILING) (5,6)		INFANT SECURITY DEVICE		CODE BLUE STATION (12)
	BLANK JUNCTION BOX (1)		DOUBLE DUPLEX RECEPT. (NORMAL, EMERG.) - STANDARD HEIGHT (5,6)		SECURITY CAMERA (WALL, CEILING)		EMERGENCY STATION - CORD TYPE (12)
EXTERIOR RACEWAYS					SECURITY CAMERA (WALL, CEILING)		STAFF EMERGENCY (12)
	UNDERGROUND CONDUIT		DOUBLE DUPLEX RECEPT. (FLOOR, CEILING) (5,6)		SECURITY CAMERA - DOME TYPE (WALL, CEILING)		AUXILIARY 1/4" JACK(S) [EQUIPMENT RECEPTACLE] (12)
	UNDERGROUND PRIMARY		DUPLEX RECEPT. W/ GROUND FAULT(5,6)		SECURITY SYSTEM CONTROL PANEL (SSCP)		EMERGENCY STATION - PUSH BUTTON (12)
	UNDERGROUND FIBER		DUPLEX RECEPT. W/ RAIN TIGHT COVER(5,6)	SYSTEMS CLOCKS			
	UNDERGROUND TELEPHONE		DUPLEX RECEPT. W/ SAFETY TYPE (TAMPER-RESISTANT)(5,6)		WALL CLOCK (RECESS, SURFACE)		CALL CORD BUTTON (12)
	LIGHTNING PROTECTION CABLE		DUPLEX RECEPT. W/ TWO USB PORTS (5,2)		MASTER CLOCK		CORRIDOR DOME LIGHT (CEILING, WALL) (12)
	LIGHTNING PROTECTION AIR TERMINAL		DUPLEX RECEPT. AND 4-PORT USB DEVICE IN COMMON BOX (5,6)		CLOCK, DOUBLE FACE (CEILING, WALL)		CORRIDOR ZONE LIGHT (12)
MISCELLANEOUS HEALTHCARE SYSTEMS					CLOCK SPEAKER ASSEMBLY		CORRIDOR DOME LIGHT, FULL FEATURE (CEILING, WALL) (12)
	ANTENNA (TELEMETRY)		FOUR PORT USB DEVICE		DIGITAL WALL CLOCK		REMOTE LOCATOR RECIEVER
	WAP (TELEMETRY)		SPECIAL PURPOSE CONNECTION (12)		DIGITAL WALL CLOCK		STAFF CEILING LOCATOR (12)
	HEADWALL CONNECTIONS (11)		MULTI-OUTLET PLUGSTRIP ASSEMBLY (5,6)		DIGITAL CLOCK, DOUBLE FACE (CEILING, WALL)		LOW VOLTAGE CONTROLLER / RELAY (12)
			SURFACE RACEWAY (5,6)	RESCUE ASSISTANCE			
			DIVIDED SURFACE RACEWAY (5,6,7)		RESCUE ASSISTANCE CALL STATION		ROOM BOX (MDRP) (12)
			HEAT LAMP FIXTURE, RECESSED CEILING		RESCUE ASSISTANCE ANNUNCIATOR PANEL (RAAP)		
			GROUNDING INPUT (SINGLE INPUT, MULTIPLE INPUTS)				

NOTES:

- (1) 1" CONDUIT STUBBED UP TO ACCESSIBLE SPACE ABOVE CEILING FROM 4" SQUARE JUNCTION BOX W/ SINGLE GANG DEVICE RING. ALL CONDUIT STUBS SHALL BE TERMINATED W/ BUSHINGS.
- (2) - FIXTURE TYPE: SEE LIGHT FIXTURE SCHEDULE (LOCATION AROUND SYMBOL MAY VARY)
- (3) - CIRCUIT NUMBER: SEE PLAN FOR PANEL BEING USED. (LOCATION AROUND SYMBOL MAY VARY)
- (4) REFERENCE SWITCH WIRING DETAIL ON SHEET "E500.
- (5) REFERENCE RECEPTACLE WIRING DETAIL ON SHEET "E500.
- (6) - RECEPTACLE CIRCUIT NUMBER: SEE PLAN FOR PANEL BEING USED. (LOCATION AROUND SYMBOL MAY VARY)
- (7) - DEVICE HEIGHT (ONLY USED FOR SPECIAL HEIGHT REQUIREMENTS)
- (8) - QUANTITY OF DROPS
- (9) PROVIDE DATA DROP AT LOCATION. PROVIDE 15FT. OF COILED CABLE ABOVE FINISHED CEILING.
- (10) (##) DESIGNATION INDICATES DAMPER OR AIR UNIT SERVED BY THE DUCT DETECTOR. REFERENCE THE FIRE/SMOKE DAMPER SCHEDULE ON SHEET H600 FOR FULL DESIGNATION.
- (11) REFERENCE THE SCHEDULE ON SHEETS E601K & E602K.
- (12) REFERENCE THE SCHEDULE ON SHEETS E601K & E602K.

* THIS COMPRISES A COMPLETE LIST OF ITEMS. NOT ALL SYMBOLS MAY NECESSARILY BE REPRESENTED ON THIS PROJECT.

5/2/2023 1:45:42 PM

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CONSTRUCTION SET	05/08/2023
Revisions:	Date:

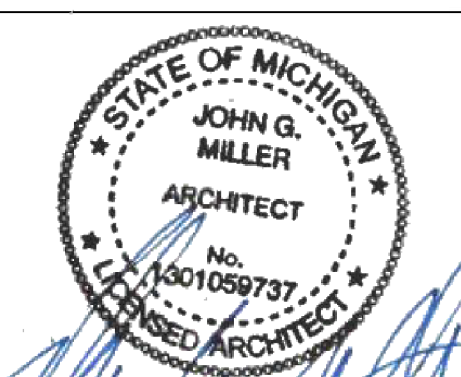
ARCHITECT/ENGINEER OF RECORD

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ARCHITECT/ENGINEER

STAMP



Office of
Construction
and Facilities
Management

VA

U.S. Department
of Veterans Affairs

Drawing Title

LEGEND & SYMBOLS

Approved:

Phase

CONSTRUCTION SET

FULLY SPRINKLERED