POWER REQUIREMENTS

POWER SUPPLY	3 PHASES+G 380V/400V/420V/440V/460V/480V ±10%
FREQUENCIES	50/60Hz ± 3Hz
MAXIMUM POWER DEMAND	100 kVA
AVERAGE POWER	30 kVA
POWER FACTOR	0.85

- Power supply should come into a Main Disconnect Panel (MDP) containing the protective units and controls.
- Governing electrical codes may require a neutral wire. If present, neutral must be terminated in MDP.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops, equal to 3.4% max. of regulation for feeder size.
- There must be discrimination between supply cable protective material at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.
- TNC neutral point connection must not be used.

SUPPLY CHARACTERISTICS

- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
- Phase imbalance 2% maximum.
- Maximum voltage variation at full load 6% (Including line impedance).
- Transients must be less than 1500V peak. (on a 380V line)
- A record of power input disturbances over a continuous two-weeks period (prior to delivery) enables determination of the frequency and degree of these disturbances and can be used to ascertain the need to provide line conditioning equipment.

GROUND SYSTEM

- System of equipotential grounding.
- Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.
- The impedance of the earth bar should be less than or equal to 2 Ω (ohm).

CABLES

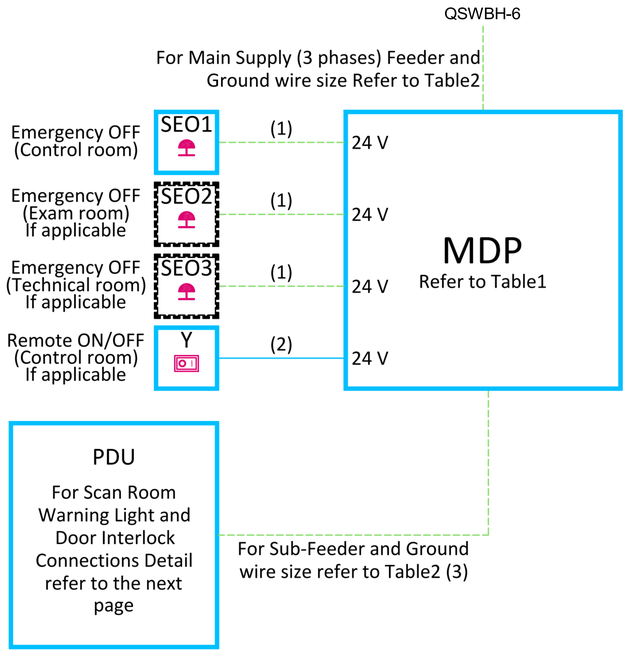
- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible of HO7RNF type, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y,SEO,L...) will go to A1 Main Disconnect with a pigtail length of 1.5m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof).
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts).
- Protecting cables against temperature shocks.
- Replacing cables (cableways should be large enough for cables to be replaced).
- Metal cableways should be grounded.

POWER DISTRIBUTION



Cable SUPPLIED BY CONTRACTOR
Cable SUPPLIED BY GE
Equipment SUPPLIED BY CONTRACTOR
Equipment SUPPLIED BY GE
MDP Main Disconnect Panel
PDU Power Distribution Unit
SEO Emergency OFF Button latching twist-to release style with two normally closed (NC) contacts
Y Remote Operator Control Station with "ON" and "OFF" buttons

Table1:

GE Supplied Main Disconnect Panel (MDP)		
Region	CAT number	Amps
Global except EMEA(440~480 V)	E4502BB	90
Global except EMEA(380~420 V)	E4502BC	110
EMEA(380~420 V)	E45021BC (3)	160

Table2:

Feeder Table

The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the above lists, please select the nearest wire size as per to local standards.

Feeder length from Power Substation to MDP - ft (m)	Minimum Wire Size, AWG or MCM (mm²)/VAC					
	380 VAC	400 VAC	420 VAC	440 VAC	460 VAC	480 VAC
50 (15)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)
100 (30)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)
150 (46)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)
200 (61)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)
250 (76)	1 (45)	1 (45)	2 (35)	2 (35)	2 (35)	3 (30)
300 (91)	1/0 (55)	1/0 (55)	1 (45)	1 (45)	2 (35)	2 (35)
350 (107)	2/0 (70)	1/0 (55)	1/0 (55)	1 (45)	1 (45)	1 (45)
400 (122)	2/0 (70)	2/0 (70)	1/0 (55)	1/0 (55)	1/0 (55)	1 (45)
Sub-Feeder length from MDP to PDU - ft (m)						
32 (9.7536)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)
Grounding						
Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.						

Notes :

(1) Wire size: 4x2mm² [14AWG] and 1x2mm² [14AWG] GND
(2) Power cable: 3 Meter/10', multi-conductor, 24V DC
(3) GE supplied MDP option E45021BC includes a 10 meter long power cable (H07RN-F) with wire size 4x50mm² and a 50 meter long control cable with wire size 2x1.5mm²

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Sheet Reviewer	NOR

MARK	DATE	DESCRIPTION

Project Number	10394230
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LICENSED PROFESSIONAL ENGINEER
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06/28/2024
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Sheet Name
GE HEALTHCARE EQUIPMENT DOCUMENTS

Sheet Number
EP804

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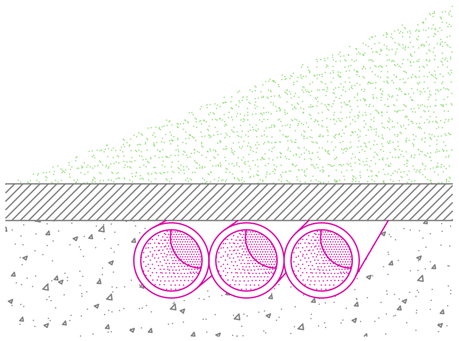
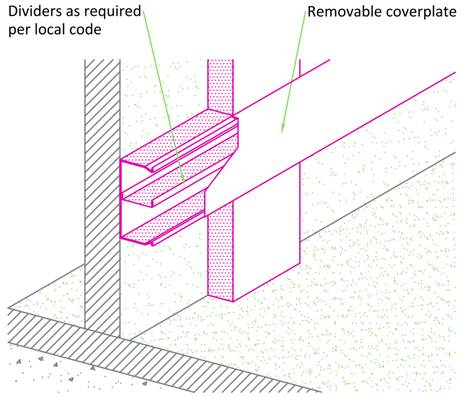
TYPICAL CABLE MANAGEMENT

CONDUIT IN THE FLOOR

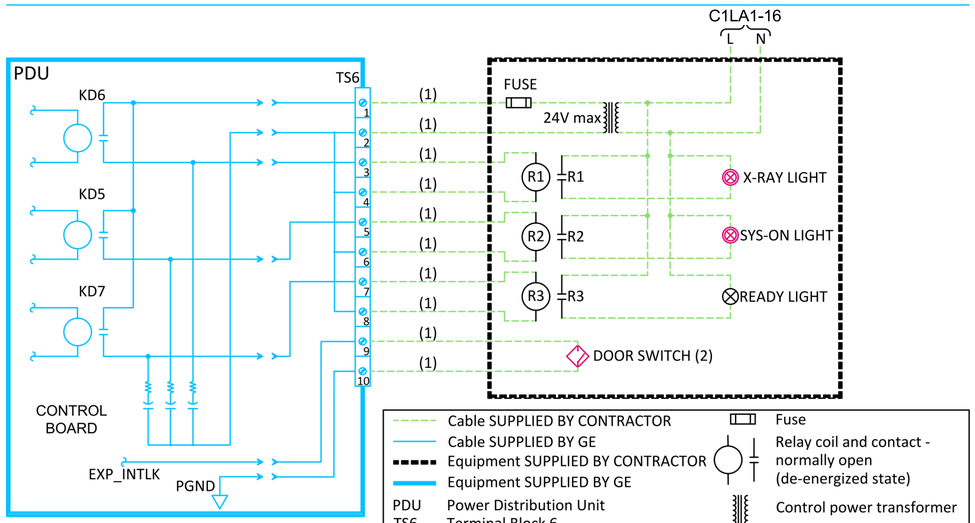


WALL DUCT



NOT TO SCALE

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



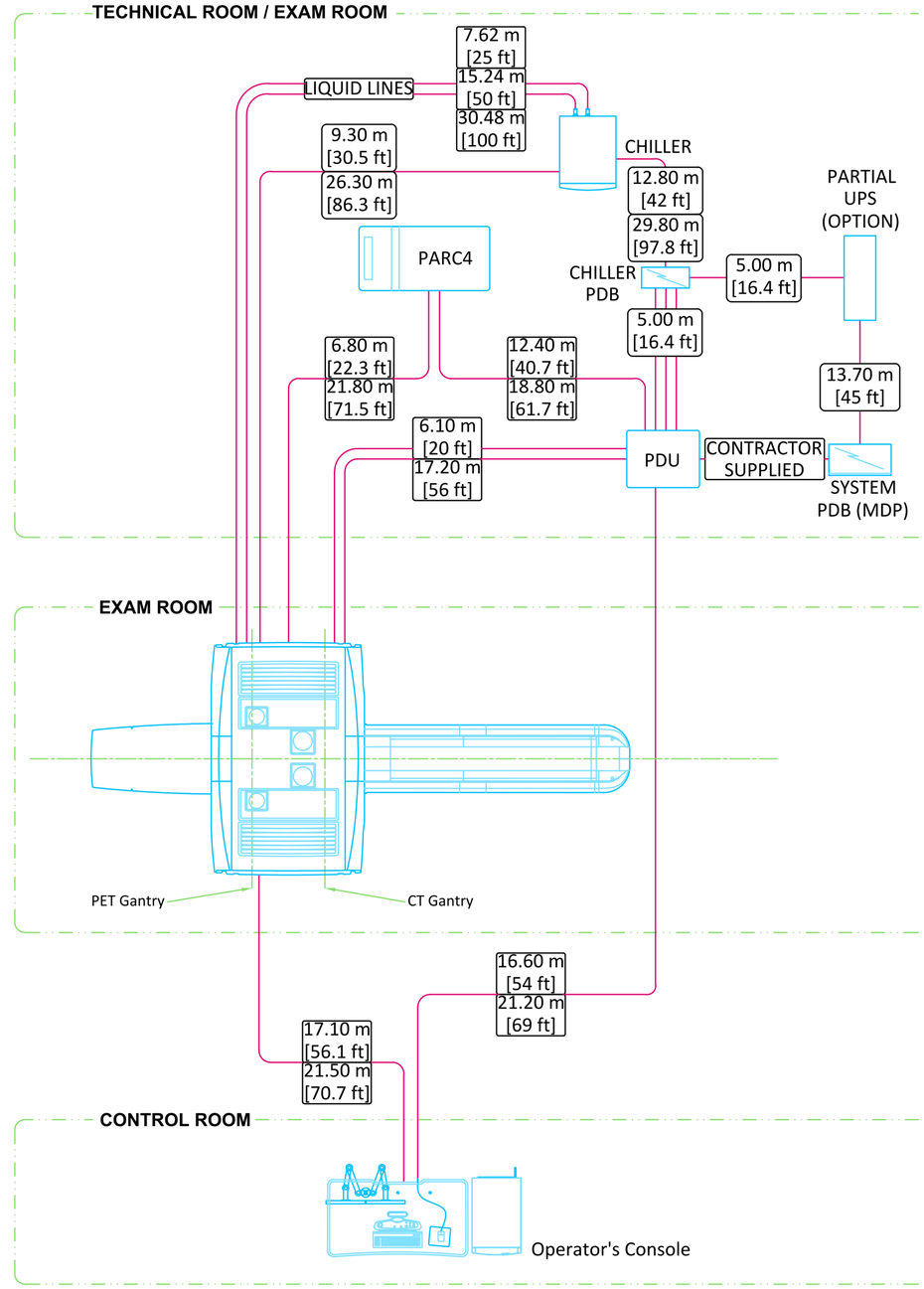
Notes :

(1) Wire size: 2mm² [14 AWG] at 24V

(2) Door Interlock circuit is jumpered out if a door switch is not provided.

(3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS



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Sheet Reviewer	NOR

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No. 7057918
CARLTON A. GETZ
06/28/2024
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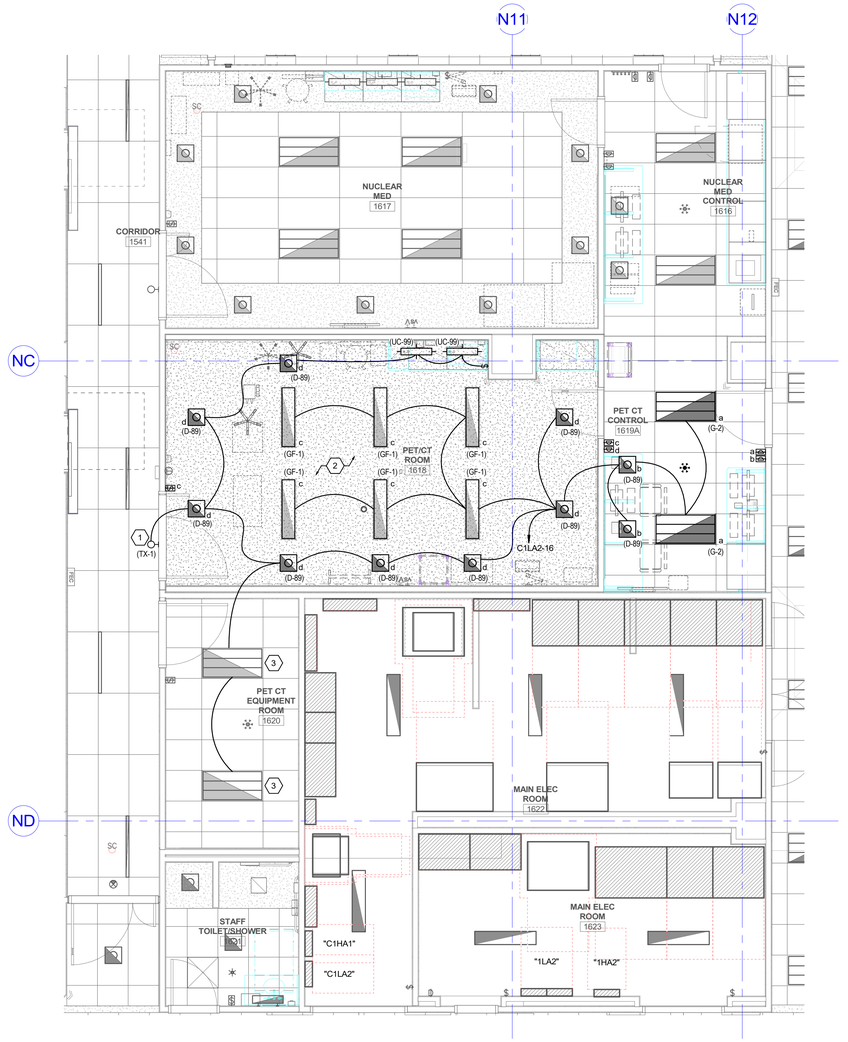
LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH THE SPECIFICATIONS.
REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

SYMBOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	NOTES
	D	RECESSED LED: SOLID STATE LED LIGHT ENGINE; CLASS P THERMALLY PROTECTED 0-10V SOLID STATE DIMMING DRIVER; MINUMUM SYSTEM RATED LIFE 50,000 HOURS AT 70% OUTPUT; UL LISTED FOR THROUGH-BRANCH WIRING AND DAMP LOCATION; LIGHT ENGINE, DRIVER, AND JUNCTION BOX ACCESSIBLE FROM ABOVE OR BELOW CEILING; SELF-FLANGING TRIM.					
	D-89	6" APERTURE: COMFORT CLEAR DIFFUSER; 4000 K COLOR TEMP LED; ~1500 LUMENS; 20 INPUT WATTS; 120V/277V; 0-10V 1% SOLID STATE DIMMING DRIVER; LENS; WHITE FLANGE.	LED	20W	UNV	LITHONIA	LDN6-40/15-L06-AR-LSS-MVOLT-GZ10-TRW
	G	DECORATIVE LENSED TROFFERS: RECESSED; ACRYLIC PRISMATIC LENS; EARTHQUAKE CLIPS, LED DRIVER 0-10 VOLT DIMMING DRIVER WHERE INDICATED IN PRODUCT NUMBER.					
	G-2	RECESSED LED FIXTURE, 2X4, ACRYLIC DIFFUSER, ~4800 LUMENS, MULTI VOLT, 4000K, GRID MOUNTED; ANTIMICROBIAL FINISH, MINIMUM MINIMUM 82 CRI (~7" WIDE LENS)	LED	35W	UNV	LITETRONICS	VLT44040 1
	GF	DIRECT TROFFERS: RECESSED FOR GYPSUM BOARD CEILING; HINGED FLUSH STEEL DOOR WITH LATCH; EARTHQUAKE CLIPS, SOLID STATE LED LIGHT ENGINE; CLASS P THERMALLY PROTECTED 0-10V 1% SOLID STATE DIMMING DRIVER; MINUMUM SYSTEM RATED LIFE 50,000 HOURS AT 70% OUTPUT; LISTED FOR THROUGH-BRANCH WIRING AND DAMP LOCATION; DRIVER DISCONNECT PER NEC 410.130 (G).					
	GF-1	RECESSED LED FIXTURE, 1X4, ACRYLIC DIFFUSER, ~3000 LUMENS, MULTI VOLT, 4000K, GYP MOUNTED; ANTIMICROBIAL FINISH, MINIMUM MINIMUM 82 CRI	LED	25W	UNV	LITETRONICS	VLT14025 1
	TX	SPECIAL FIXTURES AS INDICATED. MEET ALL REQUIREMENTS OF SPECIFICATIONS AND FIXTURE SCHEDULE. VISUAL AND FINISH APPROVAL REQUIRED.					
	TX-1	SINGLE FACE X-RAY IN USE WARNING LIGHT	LED	3W	UNV	LITHONIA	LQM-P-W-1-R-SW16
	UC	LED UNDERCABINET LIGHT: LOW PROFILE 1" HIGH X 1-3/4"DEEP X LENGTH AS NOTED; EXTRUDED ALUMINUM BODY; EXTRUDED CLEAR, POLYCARBONATE LENS; INTERNAL LED DRIVER; EFFICACY GREATER THAN 40 LUMENS PER WATT; 50,000 HOUR RATED LAMP LIFE; 2700 - 3000 DEG KELVIN COLOR TEMPERATURE, WIRING COMPARTMENT; FLUSH END. CONNECTORS FOR ROW INSTALLATION (CONNECTORS ARE NOT INCLUDED IN THE FIXTURE SCHEDULE CATALOG NUMBERS - CONNECTOR CONFIGURATION TO BE FIELD DETERMINED BY CONTRACTOR PRIOR TO PURCHASE).					
	UC-99	SURFACE MOUNTED UNDERCABINET LIGHT FIXTURE, LED, 19" NOMINAL LENGTH, WHITE ANTIMICROBIAL FINISH, UNIVERSAL VOLTAGE, ~400 LUMENS, PROVIDE INTERCONNECT CORDS BETWEEN FIXTURES FOR SERIES MOUNTED INSTALLATIONS	LED	5W	UNV	KELVIX	UC22-3040-010V-120277-WHM / UC-HW / UC-JP-6-SET

NOTE 1: PROVIDE ONLY INDICATED FIXTURES. ALTERNATES WILL NOT BE ACCEPTED.



A3 LEVEL 1 PET/CT LIGHTING PLAN

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

GENERAL SHEET NOTES

1 PROVIDE LABELS ON ALL NEW DEVICES PER PROJECT SPECIFICATIONS CONFORMING WITH DIVISION 26 SPECIFICATIONS FOR IDENTIFICATION OF ELECTRICAL EQUIPMENT AND INTERMOUNTAIN'S DIVISION 27 SPECIFICATIONS PRIOR TO SUBSTANTIAL COMPLETION.

2 EXISTING CABLING, CONDUIT, ETC., SERVING SPACES NOT DIRECTLY IMPACTED BY THE SCOPE OF WORK MAY BE IMPROPERLY SUPPORTED OR UNSUPPORTED. PROVIDE AN HOURLY TIME AND MATERIALS RATE FOR PROPERLY SUPPORTING ANY EXISTING TO REMAIN CABLING, CONDUIT, ETC., FOUND TO BE IMPROPERLY SUPPORTED OR UNSUPPORTED TO CONFORM WITH THE SUPPORT REQUIREMENTS IN THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL DOCUMENT AND REPORT ALL INSTANCES OF IMPROPERLY SUPPORTED OR UNSUPPORTED CABLING, CONDUIT, ETC., TO OWNER AND ARCHITECT. RESUPPORT ANY EXISTING CABLING AND/OR CONDUIT AS NECESSARY TO ELIMINATE CONTACT WITH EXISTING FIRE PROTECTION PIPING AND AVOID CONTACT WITH NEW FIRE PROTECTION LINES.

SHEET KEYNOTES

1 PROVIDE CIRCUITING TO "IN USE" FIXTURE THROUGH PET/CT VENDOR PROVIDED RELAY CONTROLS PER VENDOR DOCUMENTATION.

2 ALL LIGHTING FIXTURES INSTALLED IN THE CEILING AND ALL LIGHTING DEVICES WITHIN SPACE ARE TO BE INSTALLED WITH LEAD SHIELDING IN ACCORDANCE WITH SPECIFICATION SECTION 134900.

3 CIRCUIT EXISTING LIGHTING MAINTAINED DURING DEMOLITION TO NEW CRITICAL LIGHTING BRANCH CIRCUIT AS SHOWN ON PLAN.

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Plumbing Engineer	VAN BOERUM & FRANK
Interior Designer	RUBY THORP
Equipment Planner	STEVE HOOPER
Wayfinding	N/A
Sheet Reviewer	JAD

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LEVEL 1 LIGHTING PLAN

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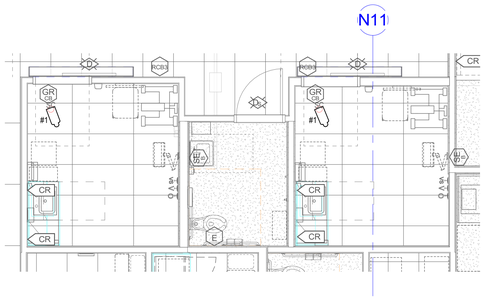
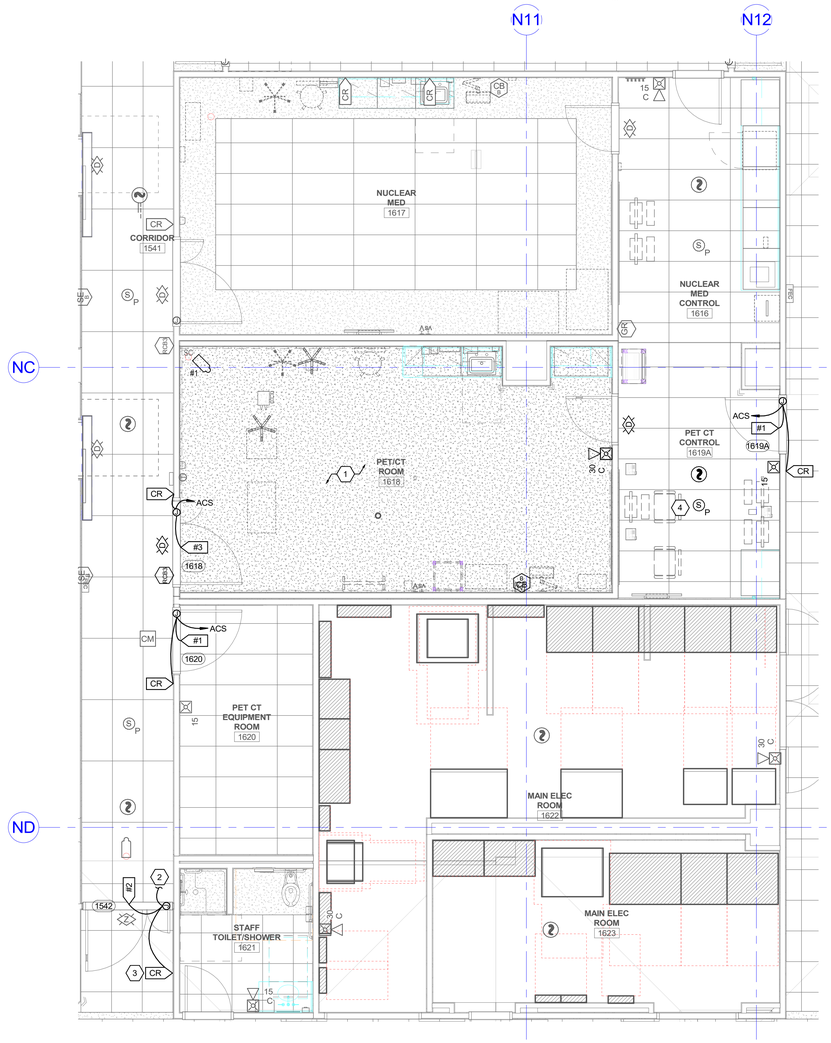


C3 LEVEL 1 PET/CT EXAM ROOMS AUXILIARY PLAN

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



A3 LEVEL 1 PET/CT AUXILIARY PLAN

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

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SHEET KEYNOTES

1 ALL DEVICES WITHIN SPACE ARE TO BE INSTALLED WITH LEAD SHIELDING IN ACCORDANCE WITH SPECIFICATION SECTION 134900.

2 RECONNECT TO EXISTING ACS CABLING MAINTAINED DURING DEMOLITION.

3 INSTALL CARD READER SALVAGED DURING DEMOLITION.

4 CONNECT NEW PAGING SPEAKER TO PAGING ZONE SERVING ADJACENT SPEAKER IN NUCLEAR MED CONTROL 1616.

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Sheet Reviewer	JAD

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06/28/2024
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Sheet Name

LEVEL 1 AUXILIARY PLAN

Sheet Number

EY101

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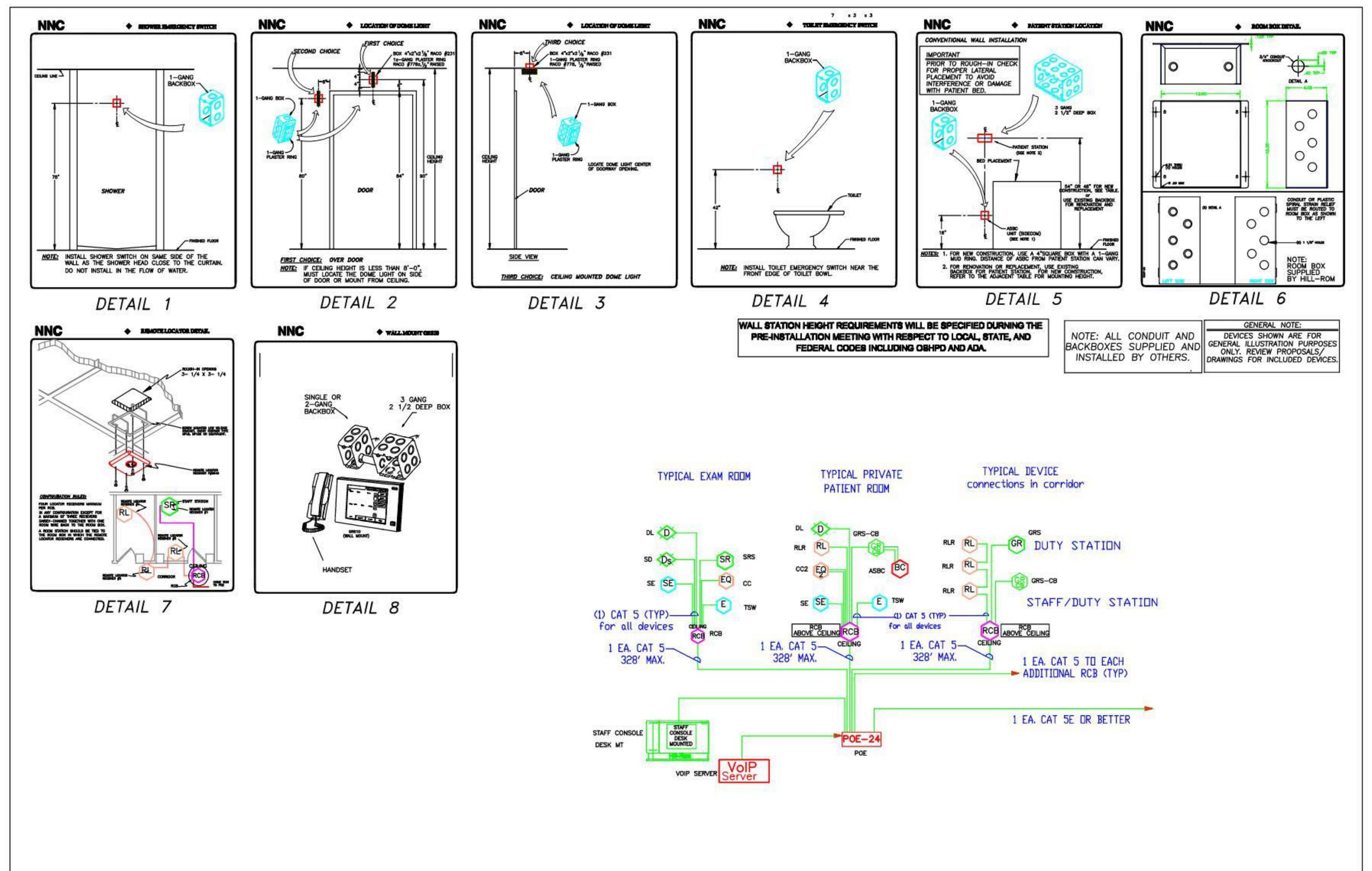
NOTE: CONTRACTOR TO CONFIRM ALL BACK BOX REQUIREMENTS WITH HILLROM PRIOR TO ROUGH-IN.



NAVICARE NURSE CALL SINGLE LINE DIAGRAM

NO SCALE

REQUIREMENTS FOR POE
-120-240 VAC 15 AMP MAX EMERGENCY POWER
-1 ET CONNECTION BETWEEN THE POEs

POE CONNECTIONS
For connections between POE switches greatr than the requirements for Cat5e, the switches accept SFP fiber transceivers (also known as mini-GBIC). See the NNC Install Manual for further information.

REQUIREMENTS FOR THE UPC

REQUIREMENTS FOR THE SERVERS
-115 VAC 15 AMP MAX EMERGENCY POWER
-MAX. CLOSET TEMP. 95 deg.
-115 VAC 15 AMP MAX EMERGENCY POWER
-1 CAT5 WIRES BETWEEN POE AND THE SERVER

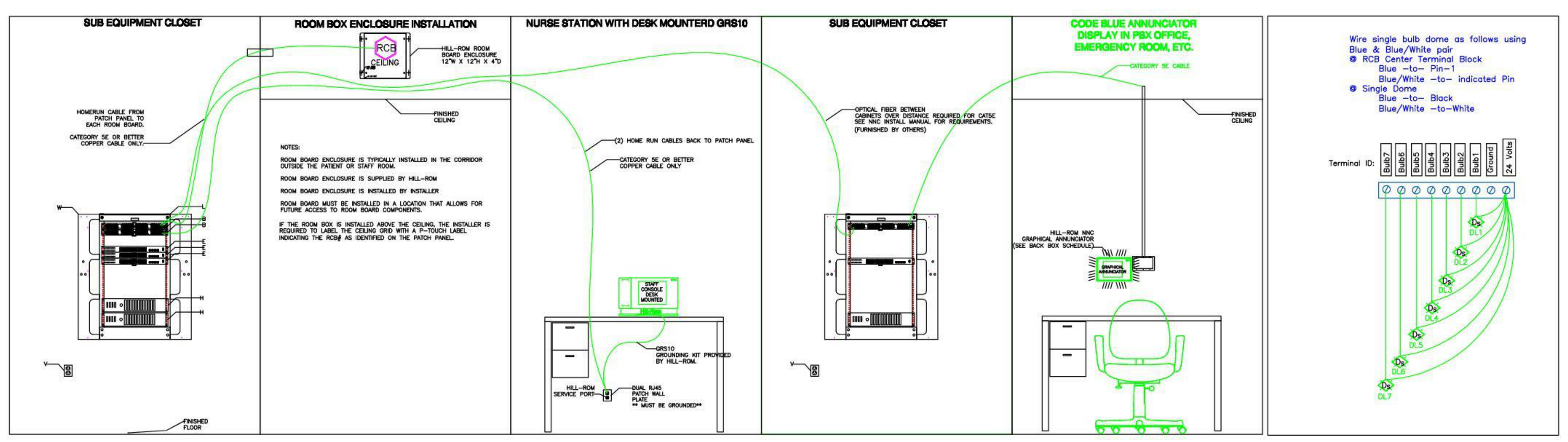
COMMUNICATION NOTES:

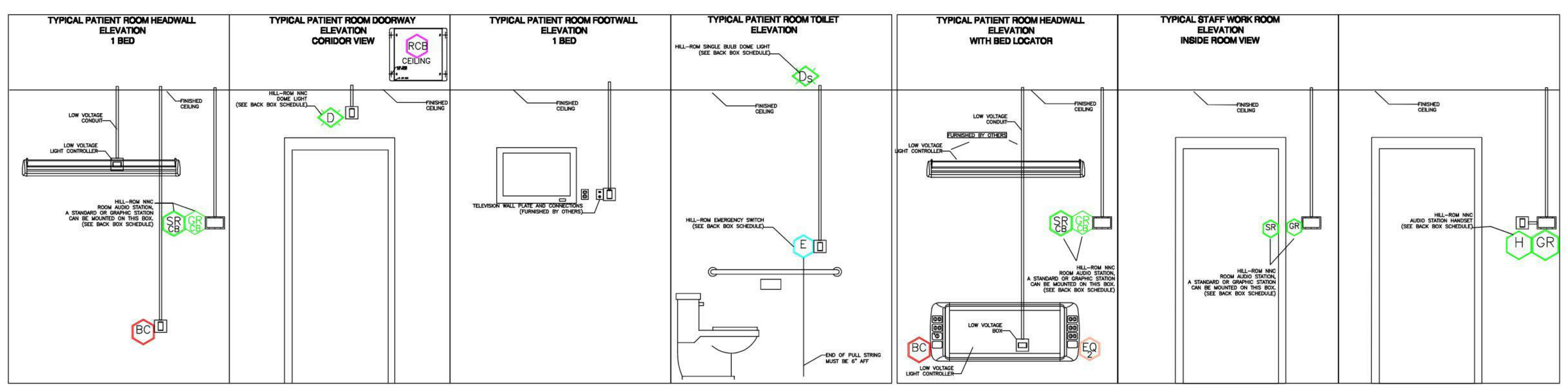
1. All cabling must be plenum rated category 5e or better, 24AWG, 4 twisted pair communication cable. Belden 1585A or equivalent is required. Preferred jacket color for nurse call cabling is Seafoam Green.
2. All cabling to be field terminated by installing contractor.
3. Location of rough-in for all ASBC must avoid interference or damage from the patient bed.
4. All device locations shown are for illustration purposes only, actual locations to be field determined.
5. Hill-Rom requires AMP High Performance (Category 5e or better) RJ45 connectors for all nurse call wiring. Cable must be terminated with approved AMP termination tool and compatible die-set for the RJ45 connector selected. Since Cat5e and Cat6 dies are not cross-compatible, it is critical that the correct die be used for the chosen connector. Refer to the TE Connectivity website at www.te.com for current part numbers and compatibility lists.
6. All termination tools are to be supplied by installing contractor.
7. All glass walls, glass doors, and interior windows must be indicated.
8. Any special requirements/interfaces not explicity defined in proposal are not included.
9. Unless otherwise noted, all non-standard products are not UL approved.

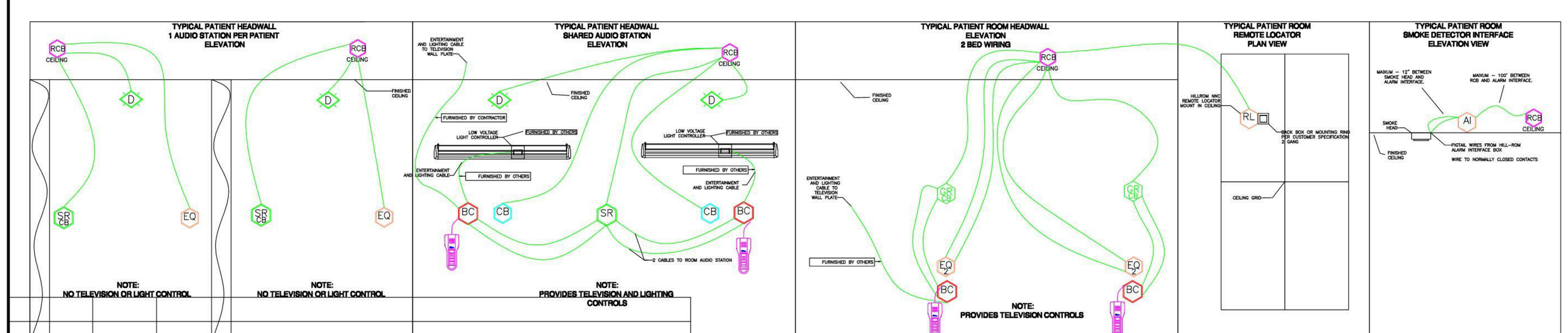
NURSE CALL SYMBOL LIST

SYMBOL	MANUF.	PART #	DESCRIPTION	BACKBOX	BOX MOUNTING HEIGHT
NCM	HILL-ROM	P2500NNC1B00	STAFF CONSOLE, DESK MOUNT	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	18" AFF (UNDER DESK)
NCM W	HILL-ROM	P2594NNC3A00	STAFF CONSOLE, WALL MOUNT	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	54" AFF OR 48" TO COMPLY W/ OSHPD AND ADA
GA	HILL-ROM	P2594NNC3B00	GRAPHICAL ANNUNCIATOR	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
BC	HILL-ROM	P2505NNC1B00	AUDIO STATION BED CONNECTOR (ASBC)	GARVIN 52181-3/4, WITH GARVIN 52C13 RING, OR ANY OTHER 4" SQUARE 3.5" DEEP BACK BOX WITH SINGLE GANG MUD RING.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
EQ	HILL-ROM	P2516A01	EQUIPMENT RECEPTACLE, WITH CALL CORD	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
Ds	HILL-ROM	P2506NNC1B00	DOME LIGHT, SINGLE LED	RACO 231, WITH RACO 778 RING, OR ANY OTHER 4" SQUARE 2 1/8" DEEP BACK BOX.	CLG / WALL CENTER ABOVE PATIENT DOOR 90" AFF
D	HILL-ROM	P2506NNC8A00-D	ICON BASED-LIGHT LED DOME LIGHT	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	CLG / WALL CENTER ABOVE PATIENT DOOR 90" AFF
Z	HILL-ROM	P2506NNC8A00-7	ICON BASED-LIGHT LED ZONE LIGHT	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	CLG / WALL CENTER ABOVE PATIENT DOOR 90" AFF
POE-24	HILL-ROM	P2519NNC1A24	POE SWITCH		REFER TO ARCHITECTURAL ELEVATION DRAWINGS
CB B	HILL-ROM	P2520A07	CODE BLUE PUSH BUTTON SWITCH	RACO 561 BACK BOX,	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
CP B	HILL-ROM	P2520A09	CODE PINK PUSH BUTTON SWITCH	RACO 561 BACK BOX,	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
PC B	HILL-ROM	P2520A12	PUSH FOR ASSISTANCE PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
SE B	HILL-ROM	P2520A08	STAFF EMERGENCY PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
E	HILL-ROM	P2520B01	BATH SWITCH, W/CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	42" AFF
E S	HILL-ROM	P2520B02	BATH SWITCH, W/O CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	78" AFF
BH-PC B	HILL-ROM	P2520NNCBH00	BH BATH SWITCH, W/CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	42" AFF
UPS, APC Rackmount Non-Seismic	HILL-ROM	P2521B02	UPS, RACK MOUNTABLE, 2U - NON-SEISMIC		REFER TO ARCHITECTURAL ELEVATION DRAWINGS
CB SR	HILL-ROM	P2594NNC1B11	STAFF STATION - STANDARD ROOM STATION W/ CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
SR	HILL-ROM	P2594NNC1B01	STAFF STATION - STANDARD ROOM STATION W/O CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
GR	HILL-ROM	P2594NNC2C00	GRAPHICAL ROOM STATION (GRS) - STAFF	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
GR CB	HILL-ROM	P2594NNC2C11	GRAPHICAL ROOM STATION (GRS) - PATIENT	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
RAD	HILL-ROM	P2594NNC4A10	REMOTE AUDIO DEVICE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
RCB3	HILL-ROM	P2599NNC3A00	RCB3 ROOM CONTROL BOARD	STEEL CITY GW-235G, RACO 696 OR ANY OTHER 3.5" DEEP, TWO OR THREE GANG BACK BOX.	SURFACE MOUNT ABOVE CEILING
CLOSED Staff	HILL-ROM	RTLS-CLOSED	RTLS - STAFF LOCATING LOCATION-CLOSED AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
OPEN Staff	HILL-ROM	RTLS-OPEN	RTLS - STAFF LOCATING LOCATION-GLASS/OPEN AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
BAY Staff	HILL-ROM	RTLS-BAY	RTLS - STAFF LOCATING LOCATION-BAY	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
	HILL-ROM		PILLOW SPEAKEKER, REQUIRES ASBC.		
R	CURBELL	MAP985A	REMOTE ENTERTAINMENT STATION	STEEL CITY GW-225C, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS
KS	HILL-ROM	P2514A01	SWITCH, KEY SWITCH, ENABLE/DISABLE	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ARCHITECTURAL ELEVATION DRAWINGS

TYPICAL PLACEMENT & WIRING ELEVATION DIAGRAMS

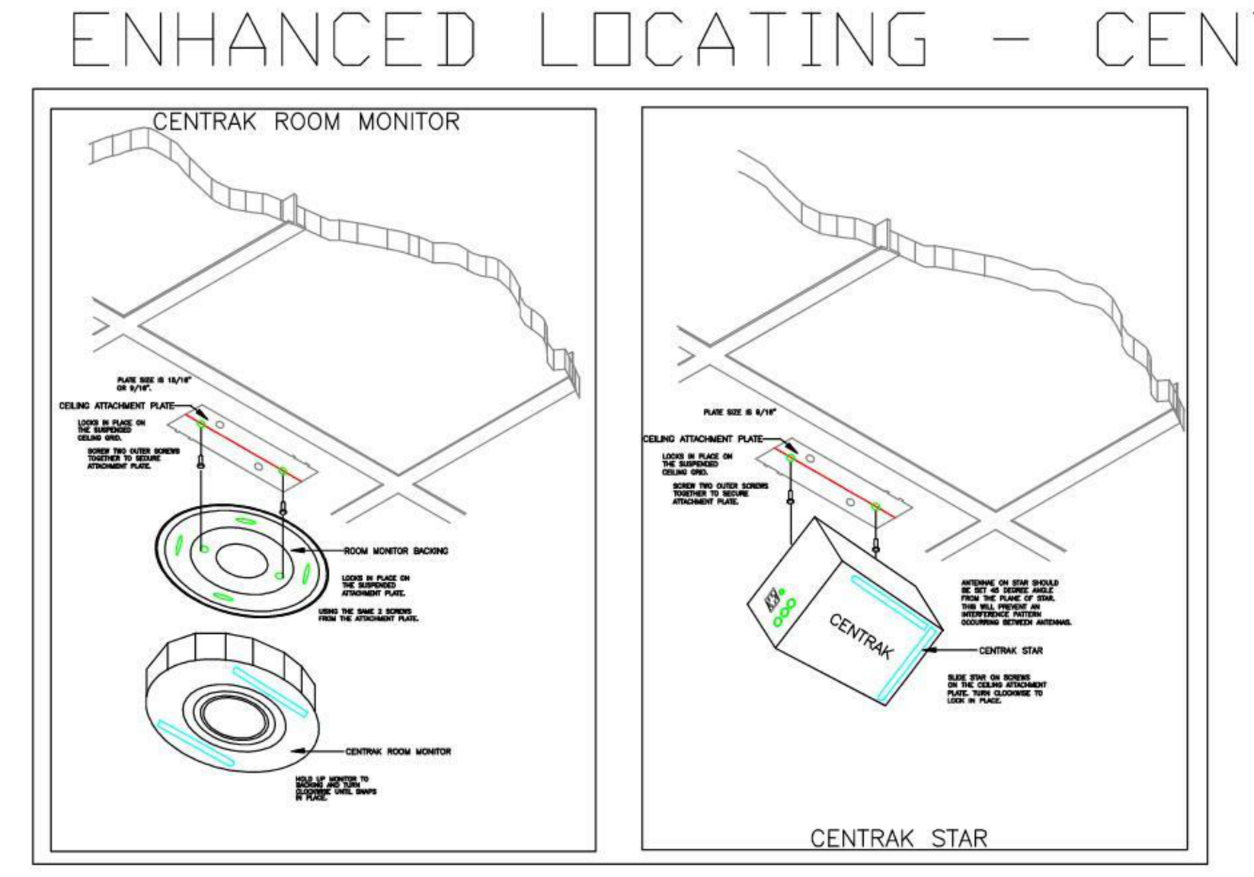






NaviCare Nurse Call RTLS						
DEVICE SYMBOL	CENTRAK NAME	PART #	BRACKETS	WORKING LOCATION	POWER	WORKING FUNCTION
S	CenTrak Star	CEN-ITK-103		Ceiling	POE.	Used to interface the tags and monitors to the IT network.
S T	Star-Timing	CEN-ITK-123		Equipment Closet	to ethernet. One needed per sub net.	Keeps everyone from talking at once.
RM	Centrak Room Monitor	CEN-ITK-313	ITA-361 9/16" ITA-362 15/16" ITA-363 5/16"	Ceiling / Wall	Battery Powered	Required to gain visibility to tags and keep a very accurate local location accuracy using IR siginaling.
VM S	Virtual Wall Monitor (Single)	CEN-ITK-323	ITA-371 9/16" ITA-372 15/16"	Ceiling / Wall	Battery Powered	Locating tagged assets or people that are geared to semi-private rooms and bays typically found in ED or OR units. The area of coverage is not effected by physical walls.
BM	Monitor Drop Box	CEN-ITK-363		Wall	Battery Powered	
DIM	Hygiene Monitor (Dim)	CEN-ITK-373		Mounts to soap dispenser, pump, and or sink.	Battery Powered	Automatically tracks hand hygiene, 24/7 at the caregivers level. Collects data on all events at hand washing stations.
IR GEN	IR Regenerator	CEN-ITA-359		Ceiling / Wall		If over 5 Virtual Wall Monitors are installed, a IR Regenerator needs to be install after the 4th VW Monitor in Series.

ENHANCED LOCATING - CENTRAK



NOTE - ALL METAL BOXES MUST BE GROUNDED, IF THE CONDUIT SYSTEM IS NOT GROUNDED, THE BOXES MUST BE GROUNDED BACK TO THE BUILDING STEEL. MASONERY BOXES ARE NOT REQUIRED, ALL BOXES ARE REQUIRED TO BE METAL.

THIS PLAN IS FOR REFERENCE ONLY. THIS IS DESIGNED TO SHOW DIAGRAMS THAT MAY HELP IN THE CONSTRUCTION PROCESS.

Revision Date	Revised by	Comments

Revision History

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Wayfinding	N/A
Sheet Reviewer	JAD

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FIRE ALARM INPUT/OUTPUT MATRIX

INITIATING DEVICES ZONE		OUTPUT DEVICES: GENERAL ALARM	DOOR HOLDER/CLOSERS	ELEVATOR RECALL MAIN LEVEL	ELEVATOR RECALL ALTERNATE LEVEL	MAIN LEVEL ELEVATOR DOORS HOLD OPEN				NOTES
1	MAIN LEVEL INITIATING LOOP	o	o			o				
2										
3										
4										
5										
6										

WIRING SCHEDULE

FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN		
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP

NOTIFICATION SCHEDULE

SYMBOL	STROBE SIZE	COVERAGE	AVERAGE CURRENT	MAXIMUM PER CIRCUIT ALONE
15	15 CD	20'x20'	.085A	17
30	30 CD	30'x30'	.135A	11
75	75 CD	40'x40'	.200A	7
110	110 CD	50'x50'	.225A	6

GENERAL SHEET NOTES

1. PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
2. PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
3. PLANS ARE BASED UPON 2 AMPS AT 24 VDC, NOT TO EXCEED 75% (1.50 AMPS AVAILABLE), POWER SUPPLY CAPACITY PER NOTIFICATION CIRCUIT. NOTIFICATION DEVICE LOADS ARE BASED UPON NOTIFICATION DEVICE SCHEDULE SHOWN. INCLUDE ADDITIONAL ASSOCIATED COSTS FOR INCREASED WIRING AND POWER SUPPLY CAPACITY IF LOADS OF ACTUAL DEVICES PROVIDED EXCEED CIRCUIT CAPACITY, OR IF LOAD OUTPUT OF ACTUAL POWER SUPPLIES PROVIDED IS SIZED DIFFERENTLY. PROVIDE SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION.
4. FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.
5. HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN SPRINKLER HEAD.
6. PROVIDE POWER SUPPLY CAPACITY AS REQUIRED FOR DOOR HOLD OPENS SHOWN.
7. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.
8. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
9. RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.
10. PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.
11. PROVIDE DUCT DETECTOR AT EACH FLOOR, PRIOR TO CONNECTION TO A COMMON RETURN AND PRIOR TO RECIRCULATING OR FRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY AND SERVING MORE THAN ONE STORY.
12. PROVIDE MANUAL PULL STATIONS IN BOILER ROOMS AND KITCHENS.
13. PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.
14. LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.
15. PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.
16. INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.
17. ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
18. HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS BASED ON 70 MILLIAMPS.
19. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

CARD ACCESS DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1	TO ACS; CR; #1; HARDWARE SET(S): #204	SINGLE DOOR, 1 CARD READER	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CONTACT INDICATOR; RETROFIT ELECTRIC STRIKE	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/ 1G RING; 40"	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • CI, ES LOCK CONTROLLED BY: • CR
TYPE 2	TO ACS; CR; #2; HARDWARE SET(S): #201	DOUBLE DOOR, 1 CARD READER	4SQ J-BOX ABOVE ACC CEILING; FRAME .75" C (TYP); .75" C (TYP); CONTACT INDICATOR; ELECTRIC POWER TRANSFER 1G BOX IN FRAME; ELECTRIC EXIT DEVICE	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/ 1G RING	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • ES, EPT, FH, DH, CI, EED LOCK CONTROLLED BY: • CR, FA, EED
TYPE 3	TO ACS; CR; #3; HARDWARE SET(S): #202	DOUBLE DOOR, 1 CARD READER	AUTO OPENER; 4SQ J-BOX ABOVE ACC CEILING; FRAME .75" C (TYP); ELECTRIC STRIKE; ELECTRIC POWER TRANSFER 1G BOX IN FRAME	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/ 1G RING	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • ES, EPT, FH, DH, ADA LOCK CONTROLLED BY: • CR, FA

CAMERA/ENCLOSURE ROUGH-IN SCHEDULE

DESCRIPTION	INCLUDES
INTERIOR CAMERA - FIXED DOME (CEILING MOUNTED)	* JUNCTION BOX ABOVE ACCESSIBLE CEILING WITH 1" CONDUIT TO VSS
INTERIOR CAMERA - FIXED DOME (WALL MOUNTED)	* JUNCTION BOX AT +90" ABOVE FINISHED FLOOR, WITH 1" CONDUIT BACK TO VSS
EXTERIOR CAMERA - FIXED DOME (WALL MOUNTED)	* JUNCTION BOX AT +120" ABOVE FINISHED FLOOR, WITH 1" CONDUIT BACK TO VSS

CAMERA SCHEDULE

TYPE	INTERIOR (INT)/ EXTERIOR (EXT)	DESCRIPTION	AXIS MODEL #
1	INT	FIXED DOME, VARIFOCAL, CEILING MOUNT	P-3265-V

NOTES

1. PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
3. CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.
4. LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
5. DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
6. ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS

1G = 1-GANG OR SINGLE GANG
4SQ = FOUR SQUARE JUNCTION BOX
AO = AUTO OPENER
AR = AS REQUIRED
ACC = ACCESSIBLE
ACS = ACCESS CONTROL SYSTEM CONTROLLER
ADA = ASSISTED DISABILITY OPENER
AED = ELECTRIC EXIT DEVICE/CR COMBO ON DOOR
AEL = ELECTRIC LOCK/CR COMBO ON DOOR
C = CONDUIT
CI = DOOR CONTACT INDICATOR SWITCH
CR = CARD READER
DH = DOOR HARNESS
DBL = DOUBLE
DED = DELAYED EXIT DEVICE
DIR = DIRECTION
ED = EXIT DEVICE
EH = ELECTRIC HINGE
EL = ELECTRIC LOCKSET
ES = ELECTRIC STRIKE
EDL = ELECTRIC DEADLATCH
EED = ELECTRIFIED EXIT DEVICE
ELC = EMERGENCY LOCK CONTROL
EPT = ELECTRIC POWER TRANSFER
FA = FIRE ALARM SYSTEM
FH = FRAME HARNESS
HDWR = HARDWARE
IDS = INTRUSION DETECTION SYSTEM
KS = KEY SWITCH
LS = LOCK INDICATOR SWITCH IN HARDWARE
LX = PANIC HARDWARE LATCH POSITION SWITCH
L/PS = LOCK POWER SUPPLY
MD = MOTION DETECTOR
ML = ELECTROMAGNETIC LOCK
OCC = OCCUPANCY
OFP = OBTAIN FROM PLANS
PB = PUSH BUTTON RELEASE
PH = PANIC HARDWARE
PP = PUSH PAD ACTUATOR
PS = POWER SUPPLY
PED = POE EXIT DEVICE
PEL = POE ELECTRIC LOCKSET
PIB = INTERFACE BOARD FOR COMBO LOCKING HARDWARE
PWR = POWER
QTY = QUANTITY
RS = REMOTE OPEN SWITCH
REX = REQUEST TO EXIT SWITCH/FUNCTION
TLC = TIME/SYSTEM LOCK CONTROL
TYP = TYPICAL
W/ = WITH

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Interior Designer	RUBY THORP
Equipment Planner	STEVE HOOPER
Wayfinding	N/A
Sheet Reviewer	JAD

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