

NOTES:

- FURR OUT WALLS FOR PANELS.
- PROVIDE #10 AWG FOR ANY CIRCUIT OVER 60' 0" IN LENGTH AND #8 AWG FOR ANY CIRCUIT OVER 100' 0" ON A 20A CIRCUIT BREAKER.
- ROUTING IN TYPICAL ROOMS SHOWN FOR CIRCUIT ONLY. SEE TYPICAL ROOM PLANS FOR CONNECTIONS, SWITCHING & MOUNTING HEIGHT.
- MAINTAIN ALL CEILING & WALL FIRE RATINGS AS SHOWN ON THE ARCHITECTURAL PLANS PER ASSEMBLY. SEAL PENETRATIONS AS REQUIRED BY THE STATE BUILDING CODE.
- PROVIDE BLANKET OR GYPSUM BOX FOR ANY RECESSED LIGHTING FIXTURE TO MAINTAIN FIRE RATING OF ARCHITECTURAL ASSEMBLY.
- ALL RECEPTACLES, SWITCHES & COVER PLATES FOR DEVICES CONNECTED TO THE EMERGENCY SYSTEM SHALL BE RED IN COLOR. TYPICAL THROUGHOUT.
- ALL WIRING FOR POWER & LIGHT FEEDERS, SUB-FEEDERS & BRANCH CIRCUITS SHALL BE INSTALLED IN METAL RACEWAY. PVC SHALL NOT BE ALLOWED IN PATIENTS ROOMS.
- ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL BE PROVIDED WITH A GROUND PATH FOR FAULT CURRENT BY INSTALLATION IN RIGID METAL CONDUIT. CONDUIT MAY BE RIGID GALVANIZED STEEL OR ELECTRICAL METALLIC TUBING INSTALLED IN ACCORDANCE WITH SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUND WIRE IN ALL POWER WIRING CIRCUITS AND SHALL BOND THE GROUND WIRE TO ALL DEVICES & EQUIPMENT. BONDING SHALL BE INSTALLED IN ACCORDANCE WITH N.E.C. REQUIREMENTS. GROUNDING WIRES SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE N.E.C.
- TESTING
 - ALL CONDUCTIVE SURFACES IN THE PATIENT VICINITY SHALL BE TESTED SO AS NOT TO EXCEED THE POTENTIAL DIFFERENCES AS STATED IN NEC 517.13.
 - REFER TO THE NEC HANDBOOK 517.13 FOR FURTHER DESCRIPTION OF TESTING.
 - TEST RESULTS SHALL BE AVAILABLE AT THE FINAL INSPECTION FOR HRS.
- MAINTAIN 3"-0" CLEARANCE IN FRONT OF ALL PANELS.
- WIRING DEVICES IN ALL PATIENT AREAS WHICH INCLUDES PATIENT ROOMS, PHYSICAL THERAPY, THERAPY POOL AND PATIENT TREATMENT AREAS SHALL HAVE HOSPITAL GRADE WIRING DEVICES AND REDUNDANT GROUNDING.
- IN RATED WALLS USE UL APPROVED TECHNIQUE & SHALL HAVE REDUNDANT GROUNDING PER THE NEC SECTION 517 SHOWN IN DETAIL A/E1 OR PROVIDE 24" SPACINGS AS REQUIRED.
- MINIMUM CONDUIT SIZE 1/2".
- ALL 120V & 208V POWER SHALL BE RUN IN CONDUIT. CABLE WILL BE ALLOWED IF THERE IS VIBRATION ON THE CONNECTED EQUIPMENT.
- PROVIDE THE HOME RUN CIRCUIT ID ON EACH RECP. SWITCH & DISCONNECT. PROVIDE ENGRAVED COVER PLATES.
- INSTALLATION SHALL COMPLY TO THE APPLICABLE ELECTRICAL CODES: NFPA-70 2017, NFPA-101 LATEST EDITION, NFPA-110 LATEST EDITION, NFPA-99.6.4.1, 18 2015 LATEST EDITION, NFPA-110.5.6.5.6 2013 LATEST EDITION, NFPA-70.215.3 2017, NFPA-70.408.4 & 408.30 2014 LATEST EDITION. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES INCLUDING SEISMIC AND WIND.
- ALL 120V CIRCUITS SHALL HAVE A DEDICATED NEUTRAL.
- FOR I.T. ROOM COMPLY WITH CHAPTER 7 OF NFPA 99 (2015).
- FINAL INSPECTION SHALL BE COORDINATED WITH THE OWNER.
- FOR LIGHTING IN THE PATIENT AREAS, THE GUIDELINES FOR ANSI/IES RP-28-07 FOR NON GLARE & INDIRECT LIGHTING WILL BE FOLLOWED. TO REDUCE GLARE THE FOLLOWING WILL BE DONE AS A MINIMUM.
 - THE COMMON AREAS WILL HAVE A DARK CARPET.
 - IN HALLWAYS AND SOME COMMON AREAS THE BOTTOM PORTION OF THE WALLS WILL BE DARK.
 - IN PATIENT ROOMS VINYL PLANK FLOORS WILL BE INSTALLED VS. STANDARD VINYL TILE.
 - LED CANS VS. FLUORESCENT CANS WILL BE USED. THE LED FIXTURES HAVE A SECOND LENSE.
 - FOLLOW ANSI/IES-RP-28 07 RECOMMENDATIONS FOR FOOT CANDLES.
- PROVIDE REMOTE GENERATOR ANNUNCIATOR PANEL AT A 24HR STAFFED LOCATION AS REQUIRED BY NFPA 110 RULE 5.6.6.
- LABEL ALL JUNCTION BOXES. JUNCTION BOXES THAT CONTAIN AN EMERGENCY POWER CIRCUITS SHALL BE COLOR CODED AS FOLLOWS: LIFE SAFETY - RED CRITICAL - ORANGE EQUIPMENT - BLACK CIRCUIT I.D.'S CAN BE POSTED WITH A PERMANENT MARKER ON JUNCTION BOXES.
- ALL WIRING DEVICE COVER PLATES SHALL HAVE ENGRAVED CIRCUIT ID HOME RUNS.
- HOSPITAL GRADE ARMOR CLAD CABLE WILL BE ALLOWED IN CONCEALED AREAS.
- PROVIDE BONDING OF ALL NORMAL & EMERGENCY POWER PANELS THAT SERVE THE PATIENT ROOMS WITH #6 INSULATED COPPER WIRE MIN.
- CONTRACTOR SHALL PROVIDE REDUNDANT GROUNDING WHEREVER A PATIENT MAY GO.
- HOSPITAL GRADE METAL CABLE WILL BE ACCEPTABLE FOR REDUNDANT GROUNDING IN CONCEALED AND NON FINISHED AREAS.

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMP					MFG.	MODEL	MOUNTING	REMARKS	
		NO	WATT	TYPE	COLOR TEMP	LUMENS					VOLT
A	4' BED LIGHT	-	93	LED	3000K	9491	120	KENALL	MPWUD-48-MW-FA-1/1-45L30K-OCC-120-PCR	WALL OVER BED (5.5')	PROVIDE 4-WAY SWITCH.
B	SHOWER LIGHT	-	20	LED	4000K	1444	120	LITHONIA	LDN4 40/15 L04AR LSS MVOLT EZ1 L04	RECESSED	U. L. WET LOCATION
C	NIGHT LIGHT	-	2	LED	AMBER	-	120	HEALTHCARE LIGHTING	HNL610 MVOLT LEDAMB FW	WALL RECESSED +24"	-
D	6" CAN	1	21	LED	3500K	2027	120	LIGHTOLIER	P6RDL20N210UVB P6RDL835VB P6RDLCCP	RECESSED	DIMMABLE. UL DAMP LOCATION
D1	6" CAN	1	16	LED	3500K	1500	120	LIGHTOLIER	P6RDL15N210UVB P6RDL835VB P6RDLCCP	RECESSED	DIMMABLE
D2	6" CAN	1	30	LED	3500K	3500	120	LIGHTOLIER	C6RN C6L35835W210U C6RDLCCP	RECESSED	DIMMABLE. UL DAMP LOCATION
DM	DIRECTIONAL 6" CAN	-	16	LED	4000K	1500	120	LIGHTOLIER	P6RDL15N210UVB P6RDL835VB P6RDLCCP	RECESSED	DIMMABLE.
E	GENERATOR LIGHT POLE	1	97	LED	4000K	12500	120	CURRENT LIGHTING	VP-1-160L-100-4K7-4F-UNV-HSS-270-BSS-RPA	14' POLE	PROVIDE 14FT (MOUNTING HEIGHT) ROUND TAPERED FIBERGLASS DIRECT BURIAL POLE. SIZE POLE PER SITE SPECIFIC WIND LOAD RATING. PROVIDE A WEATHERPROOF EMERGENCY LIGHT MOUNTED ON THE POLE.
F	4' GROW LIGHT	-	40	-	3,500	LED	120	-	-	SURFACE	SELECTION BY INTERIOR DESIGNER \$150/EA ALLOWANCE
G	4' WRAP	-	73	LED	4000K	6790	120	SIGNIFY DAY-BRITE	OWL470840-UNV-DIM	SURFACE	DIMMABLE.
G1	4' WRAP	-	53	LED	4000K	5136	120	SIGNIFY DAY-BRITE	OWL450840-UNV-DIM	SURFACE	DIMMABLE.
H	4' STRIP	-	30	LED	3500K	3967	120	SIGNIFY DAY-BRITE	FSS440L835-UNV-DIM	SURFACE	-
I	BOLLARD	-	42	LED	4000K	1400	120	SUN VALLEY	BRAB-CL/36LED120N/RAL-9005-T	CONCRETE BASE SEE D/E1	-
J	CANOPY LIGHT	-	40	LED	3500K	4900	120	ATLANTIC LIGHTING	LED6M35K-1-6VR10M	RECESSED	-
K	CANOPY CAN	-	40	LED	-	-	120	-	-	-	-
M	WALL MOUNT AREA LIGHT	-	44	LED	4000K	4500	120	US ARCH. LIGHTING	RZR-WM1/PLED-111/20PLED-700MA-NW/120/RAL9005-T	WALL @ +8'-6" AFF	-
N	LANDSCAPE	1	5	LED	3500K	-	120	-	-	CONCRETE PAD	-
P	2" UNDER CABINET	-	15	LED	3000K	1054	120	PROGRESS LIGHTING	P700003-028-30	UNDER CABINET	-
R	WALL WRAP	-	31	LED	4000K	2800	120	SIGNIFY DAY-BRITE	CSW48-2835USZT20	WALL @ +8'-6" AFF	-
S	BEAUTY PARLOR IN CABINET	1	25	LED	3500K	-	120	-	-	IN CABINET	LIGHT IN CASE WORK PROVIDED BY CABINET MANUFACTURER.
T	4' VAPOR TIGHT	-	35	LED	4000K	4355	120	PHILIPS	V3W451840UNVDM	CEILING SURFACE	UL WET LOCATION
U	ATTIC LIGHT	1	15	A19 LED	4000K	-	120	LEVITON	49875	RAFTER	PROVIDE METAL WIRE GUARD.
V	4' LINEAR	1	30	LED	4000K	3935	120	ELITE LIGHTING	4-ORW-LED-4000L-DIM10-MVOLT-40K-85	CEILING SURFACE	-
W	11" ROUND	1	22	LED	4000K	1559	120	ELITE LIGHTING	RL1191-1500L-120-40K-90	CEILING SURFACE	-
⊗	EXIT	-	-	LED	-	-	120	ISOLITE	RL-EM-R-WH-UN-SD	WALL OR CEILING	PROVIDE BATTERY BACKUP.
⊗	EXIT/EMERGENCY	-	-	LED	-	-	120	ISOLITE	RLC-LED-R-U-WH-SD	WALL OR CEILING	PROVIDE BATTERY BACKUP.
⊗	EMERGENCY	2	3	LED	-	640	120	ISOLITE	BUG-3-WH-SD	WALL @ 7'-6" AFF	PROVIDE BATTERY BACKUP.
⊗	EXTERIOR EMERGENCY EGRESS	2	3	LED	-	640	120	CHLORINE	PLACEM	WALL ABOVE DOOR	PROVIDE BATTERY BACKUP

LIGHTING FIXTURE NOTES:

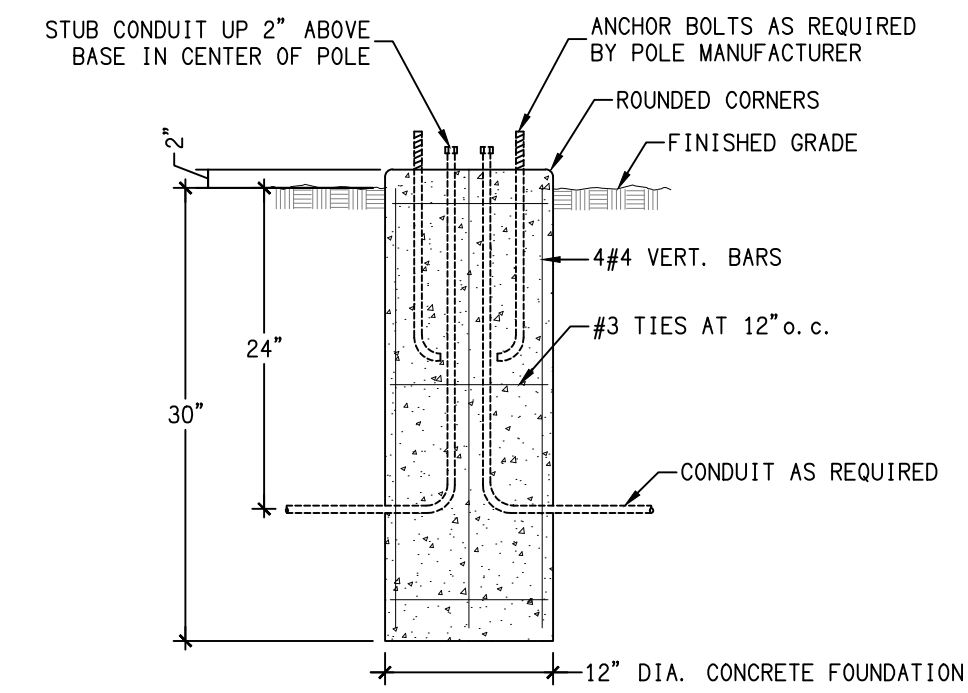
- CONTRACTOR SHALL PROVIDE ALL LAMPS.
- PROVIDE RATED CAPS FOR ALL RECESSED FIXTURES IN RATED CEILINGS.
- SPACING FOR EMERGENCY FIXTURE AS SHOWN ON PLAN IS BASED OFF MANUFACTURER RECOMMENDED MAXIMUM SPACING. ANY SUBSTITUTIONS SHALL MEET OR EXCEED SPECIFIED FIXTURE SPACING GUIDELINES TO ACHIEVE REQUIRED EMERGENCY EGRESS LIGHTING LEVELS PER NFPA 101, OR ADDITIONAL FIXTURES WILL BE REQUIRED TO COMPENSATE.
- OWNER SHALL APPROVE ALL FIXTURES

LIGHTING FIXTURE SCHEDULE- DECORATIVE

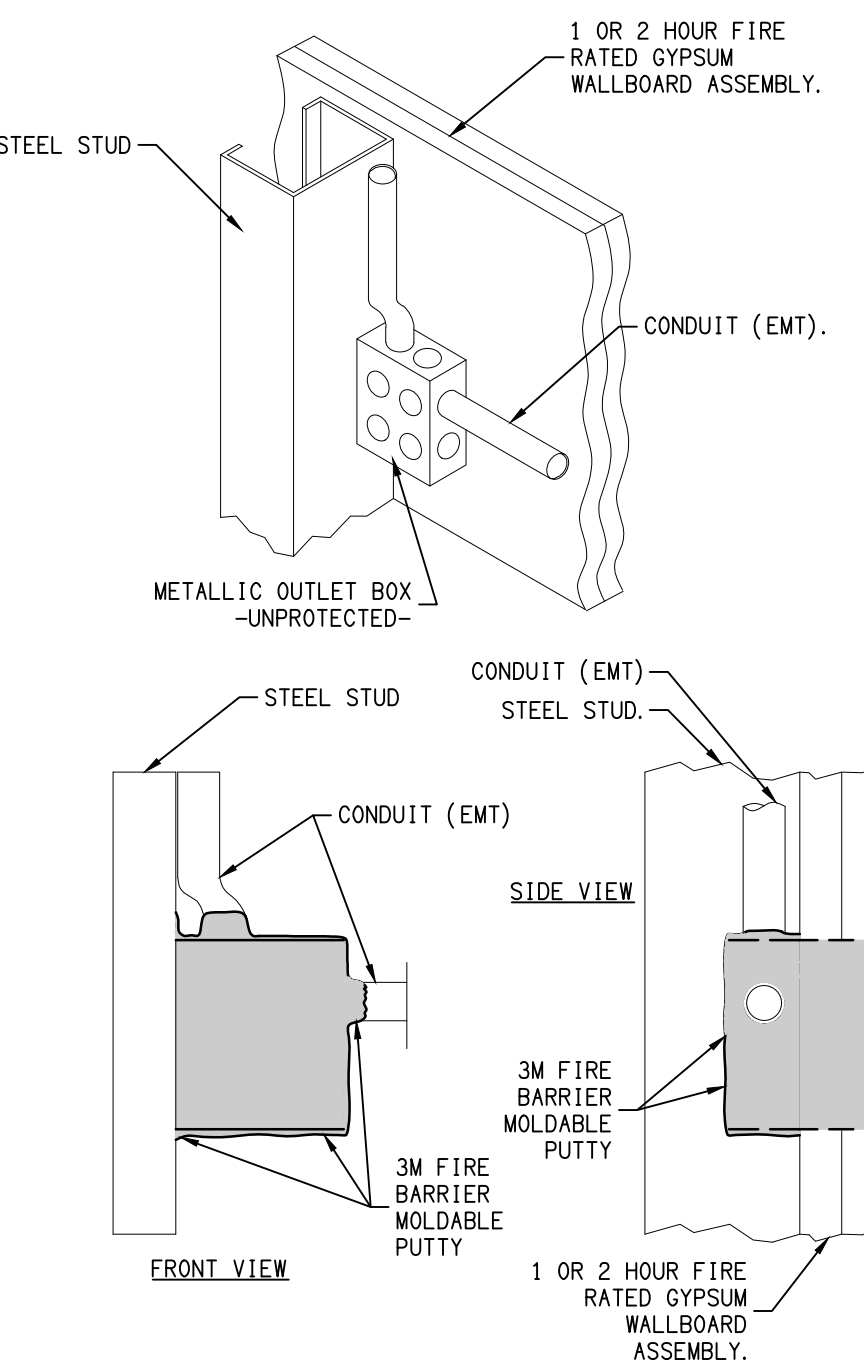
SYMBOL	DESCRIPTION	LAMP					MANUF.	MODEL	MOUNTING	REMARKS	
		NO	WATT	LUMENS	TEMP (*K)	TYPE					VOLT
DA	CORRIDOR WALL SCONCE	1	10	-	3,000	LED	120	FEISS	WB 1341BS BRUSH STEEL	WALL	-
DB	PORCH WALL SCONCE	1	10	-	3,000	LED	120	LAMPS PLUS	IN-8888 HIGH SILVER	WALL	UL WET LOCATION
DC	RESIDENTIAL TOILET WALL SCONCE	1	7	600	3,000	LED	120	KUZCO LIGHTING	770D11 CH	WALL BESIDE MIRROR	-
DD	RESIDENTIAL TOILET MIRROR	-	10	-	-	-	-	MEON	CS1DN2692 W/CHROME	WALL	NOTE 2
DE	RESIDENTIAL TOILET CEILING FIXTURE	1	16	-	3,000	LED	120	KUZCO LIGHTING	FM0012	CEILING SURFACE	NOTE 3
DF	TUB ROOMS, BEAUTY & ADL	1	5	-	3,000	LED	120	LAMPS PLUS	6D223	WALL	-
DG	CHANDELIER DINING	1	85	-	3,000	LED	120	SEAGULL	31162-EN3-839 BLACKSMITH FINISH	CEILING SURFACE	-
DH	52" FANS	-	68	-	-	-	120	HOM SELECTS INTERNATIONAL	SINGLE LIGHT 2068NICKLE FINISH	CEILING	-
DHL	52" FAN WITH LIGHT	1	83	-	-	-	120	HOM SELECTS INTERNATIONAL	SINGLE LIGHT 2068NICKLE FINISH	CEILING	-
DX	PENDANT, CINEMA, BEAUTY SALON & NS	1	9.5	-	3,000	LED	120	SEAGULL	61160EN3	CEILING SURFACE	-
DJ	CHANDELIER TAVERN	-	47.5	-	3,000	LED	120	SEAGULL	31161-EN3839 BLACKSMITH FINISH	CEILING SURFACE	-
DK	CORRIDOR CHANDELIER	-	47.5	-	3,000	LED	120	SEAGULL	31161- 962 BRUSH NICKEL	CEILING SURFACE	-
DL	LIVING RM CHANDELIER	5	15	-	3,000	LED	120	-	-	-	\$500/EA ALLOWANCE

LIGHTING FIXTURE NOTES:

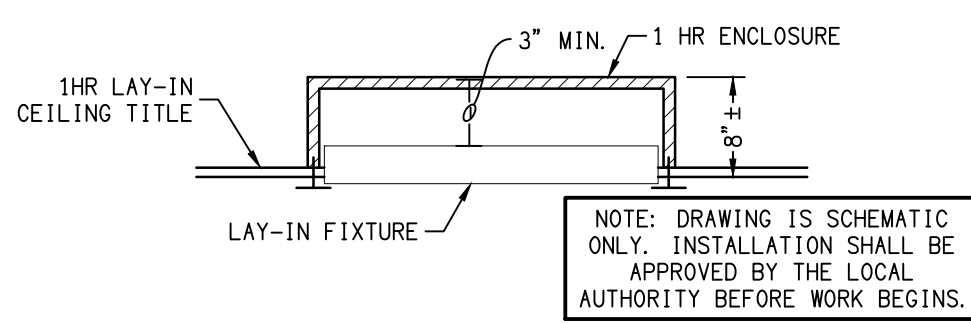
- PROVIDE ALL LAMPS.
- PROVIDE TILTING FRAMELESS MIRROR 26"x22", DAMP LOCATION.
- U. L. DAMP LOCATION.



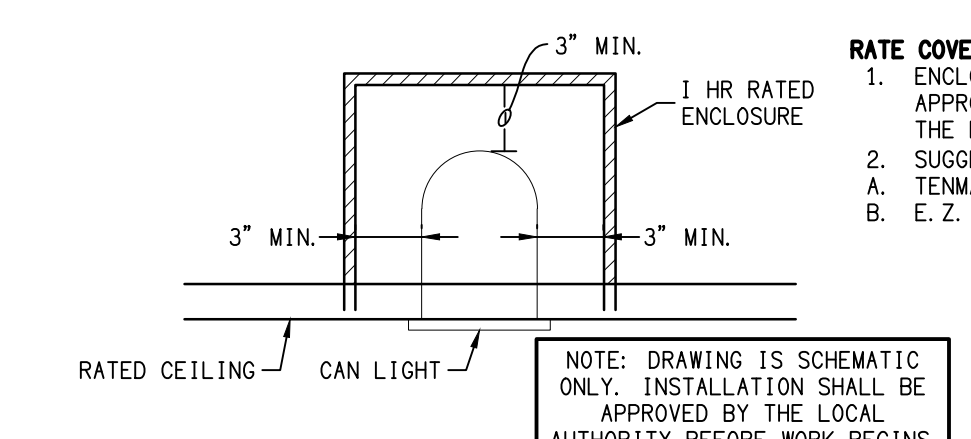
D E1 Type I Bollard Base Detail
SCALE: NTS



A E1 Putty Pack Detail for 1 or 2 hr Fire Rated Wall
SCALE: NTS



B E1 Lay-in Fixture in Rated Ceiling
SCALE: NTS



C E1 Can Fixture in Rated Ceiling
SCALE: NTS

ELECTRICAL ABBREVIATIONS

NL	NIGHT LIGHT
AFF	ABOVE FINISHED FLOOR
GFI	GROUND FAULT INTERRUPTING
GFTA	GROUND FAULT INTERRUPTING WITH ALARM
3R	WEATHERPROOF ENCLOSURE
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
BOB	BOTTOM OF BOX
UC OR U	UNDERCOUNTER
TBD	TO BE DETERMINED
CLG	CEILING MOUNTED
UCR	UNDER COUNTER RECEPTACLE

PROVIDE A UL APPROVED LIGHTNING PROTECTION SYSTEM FOR THE BUILDING.

RATED WALL LEGEND

1 HOUR FIRE/SMOKE BARRIER (1-HR F/S WB)
1 HOUR FIRE BARRIER WALL (1-HR FB WB) REQUIRED BY TABLE 603 NCSB(C)
2-HOUR RATED FIRE WALL (2-HR FW) SMOKE BARRIER
SMOKE RESISTANT INCIDENTAL WALL (SRW)

EMERGENCY RESPONDER RADIO COVERAGE
CONTRACTOR/OWNER SHALL BE RESPONSIBLE FOR HIRING A THIRD PARTY TO ASSESS THE EMERGENCY RESPONDER RADIO COVERAGE IN THE BUILDING. COORDINATE WITH THE LOCAL EMERGENCY RESPONDER GROUP RESPONSIBLE FOR THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEM. AMPLIFICATION SHALL BE PROVIDED AS REQUIRED TO MEET ALL REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE: FIRE CODE SECTION 510.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE THE EXACT LOCATION OF ALL OFFICE AND COMMON AREA RECEPTACLES AND PHONE/DATA/TV BOXES.

120V 20AMP WIRE SIZE CHART:
FOR 20A - 1φ - 120 VOLT SERVICE WIRE SIZE SHALL BE AS FOLLOWS:

DIST. TO 1st CONNECTION	WIRE SIZE
60' TO LESS	#12
60' TO 100'	#10
OVER 100'	#8

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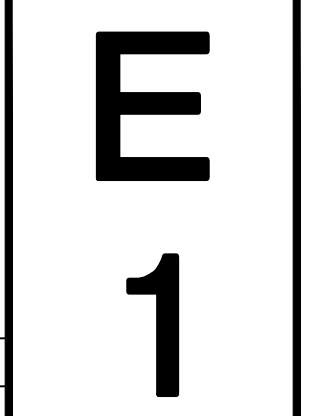
ELECTRICAL LEGEND

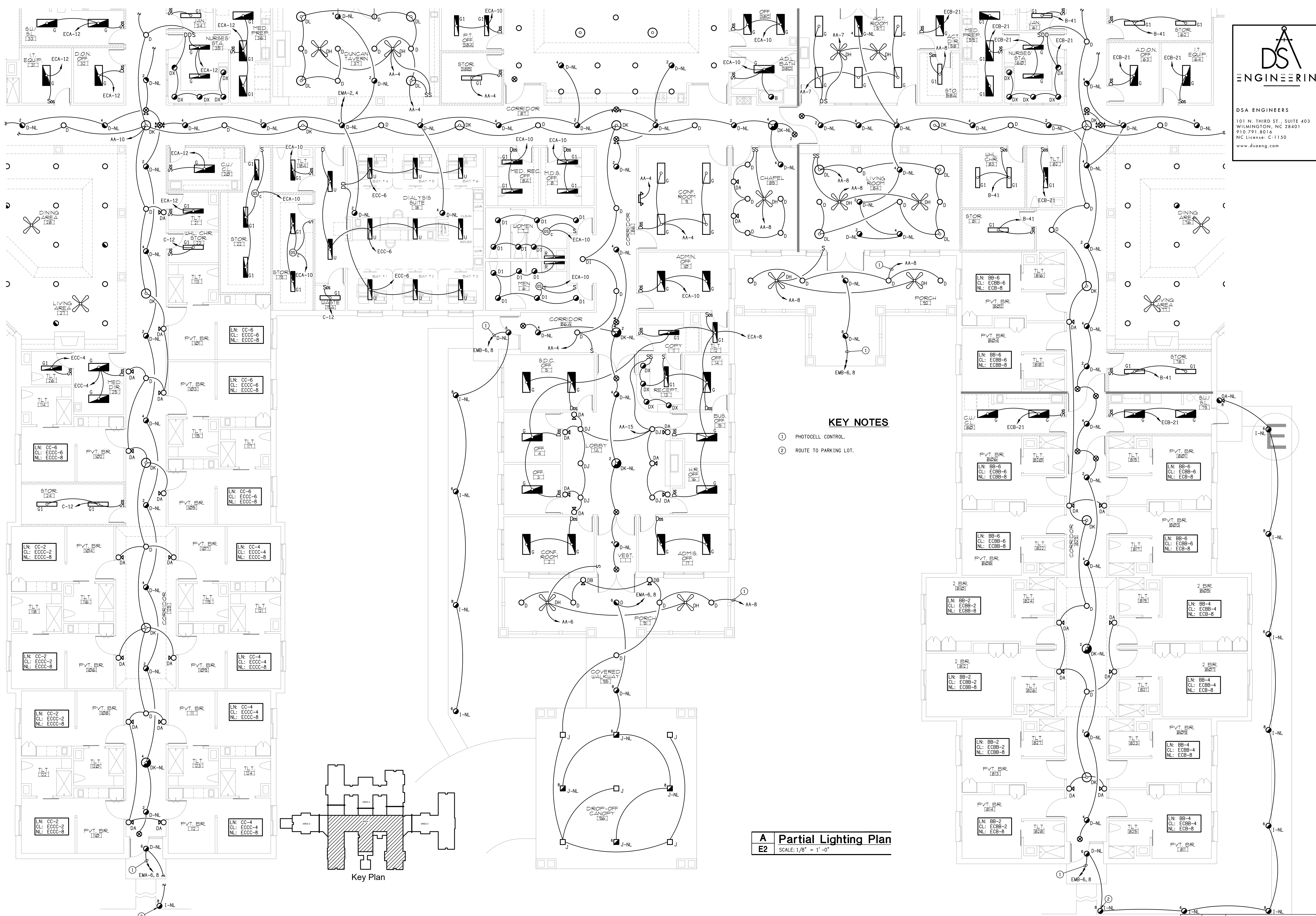
SYMBOL	DESCRIPTION
⊗	CEILING OUTLET WITH LED FIXTURE ON LIFE SAFETY OR CRITICAL POWER
⊗	CEILING OUTLET WITH LED FIXTURE ON LIFE SAFETY OR CRITICAL POWER
○	CEILING OUTLET WITH LED FIXTURE
⊗	WALL OUTLET WITH LED FIXTURE
○	CEILING OUTLET WITH LED FIXTURE
S	SWITCH, SINGLE POLE, 120/277VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX
Ss	SWITCH, THREE WAY, 120/277VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX
Sos	OCCUPANCY SENSOR WITH ON/OFF SWITCH, 120VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX.
Sz	250V TWO POLE SWITCH
Sy	SWITCH W/PILOT LIGHT, 120/277VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX
D	DIMMER, SINGLE POLE, 120/277VAC, MOUNTED AT 48" AFF TO TOP OF OUTLET BOX
Dos	OCCUPANCY SENSOR WITH DIMMING AND ON/OFF SWITCH, 120VAC, MOUNTED AT 48" AFF TO TOP OF BOX
⊗c	OCCUPANCY SENSOR, CEILING MOUNT, LUTRON OR EQUAL
⊗	DUPLEX CONVENIENCE RECEPTACLE, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX, UNO
⊗f	DUPLEX CONVENIENCE RECEPTACLE WITH FREEZE PROTECTION, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX UNO
⊗t	TAMPER PROOF DUPLEX CONVENIENCE RECEPTACLE, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX UNO
⊗4	QUAD CONVENIENCE RECEPTACLE, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX
⊗4t	QUAD CONVENIENCE RECEPTACLE, TAMPER PROOF, 120VAC, HOSPITAL GRADE, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX
⊗e	DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY POWER, 120VAC, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX, UNO
⊗30	30A-250V RECEPTACLE ON NORMAL POWER
⊗30e	30A-250V RECEPTACLE ON EMERGENCY POWER
⊗	CONVENIENCE RECEPTACLE, 120V, FLOOR MOUNT, COVER FLUSH W/ BRUSHED STAINLESS STEEL COVERPLATE
⊗c	CONVENIENCE RECEPTACLE, 120V, CEILING MOUNT, COVER FLUSH W/ BRUSHED STAINLESS STEEL COVERPLATE
⊗20	20 AMP 250V RECEPTACLE FOR PTAC UNIT, MOUNTED AT 8" AFF
⊗	FLOOR MOUNT PHONE/DATA OUTLET, COVER FLUSH W/ FINISH FLOOR
▽	PHONE/DATA OUTLET, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX UNO
△	DATA/TV OUTLET, MOUNTED AT 18" AFF TO CENTER OF OUTLET BOX UNO
⊗	JUNCTION BOX
⊗	GENERATOR KILL SWITCH
⊗	SURGE PROTECTOR
⊗	WIRELESS ACCESS POINT
⊗	TV CONNECTION, VERIFY REQUIREMENTS, MOUNT AT +18" AFF UNO
⊗	ELECTRICAL PANEL, SURFACE
⊗	ELECTRICAL PANEL, FLUSH
⊗	DISCONNECT SWITCH, FUSIBLE
⊗	FAN BY MECHANICAL CONTRACTOR
⊗	PHONE/CATV PANEL, 4x8x3 PLYWOOD WITH #6 INSUL. GROUND IN 3" CONDUIT TO ELEC. SYSTEM GROUND

HEARTLAND LIVING AND REHABILITATION
Greensboro, North Carolina

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Architecture Planning Design

125 BED FACILITY





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HEARTLAND LIVING AND REHABILITATION

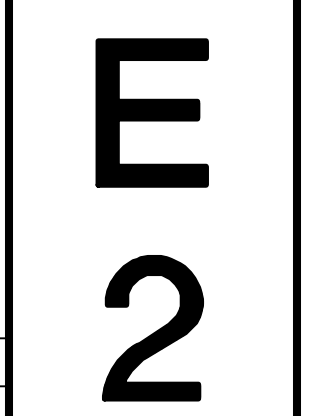
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Architecture Planning Design

125 BED FACILITY

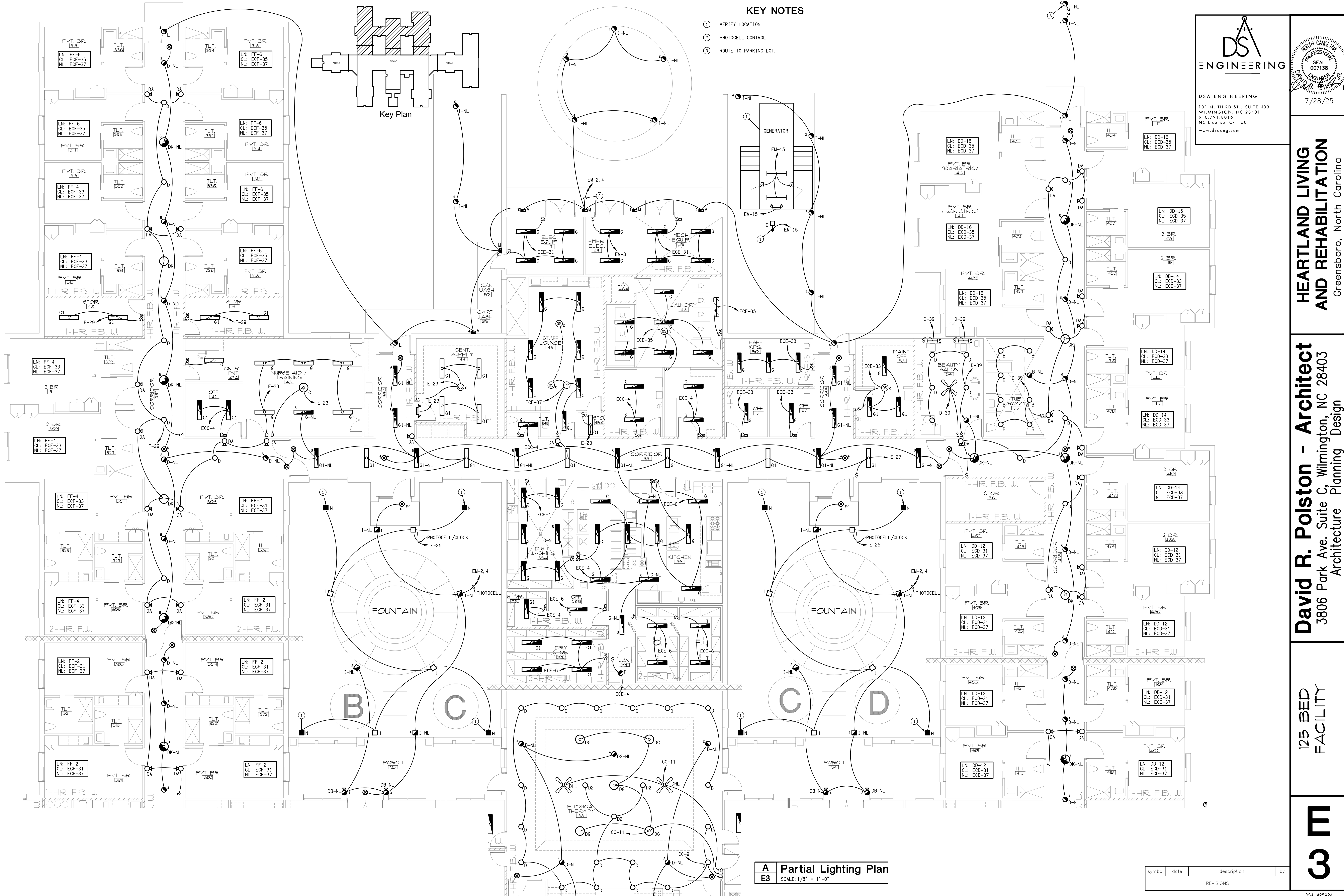


A Partial Lighting Plan

E2 SCALE: 1/8" = 1'-0"

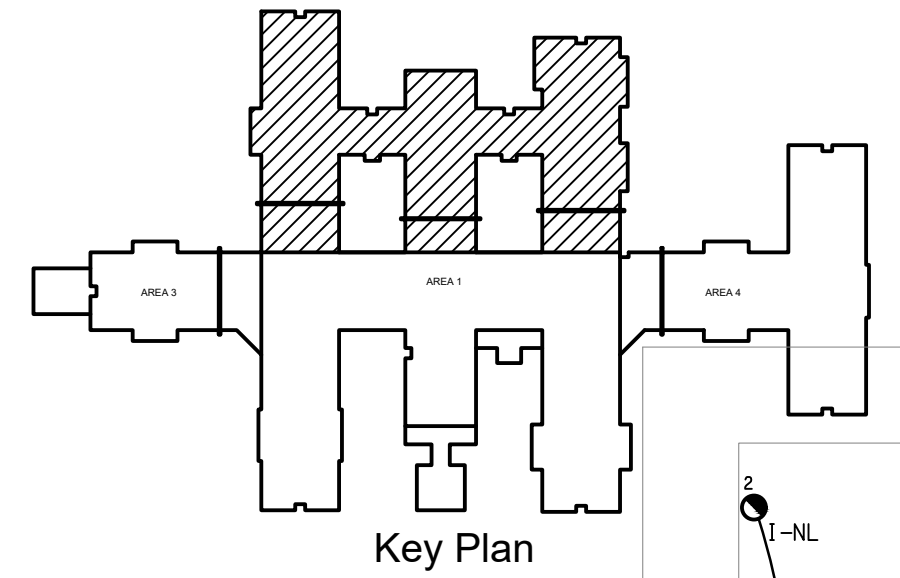
- KEY NOTES**
- ① PHOTOCELL CONTROL.
 - ② ROUTE TO PARKING LOT.

symbol	date	description	by



KEY NOTES

- ① VERIFY LOCATION.
- ② PHOTOCELL CONTROL.
- ③ ROUTE TO PARKING LOT.



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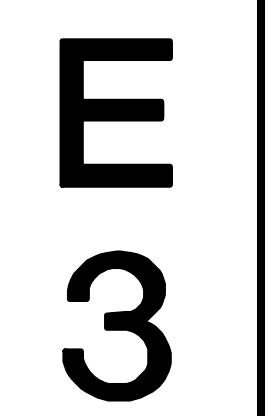
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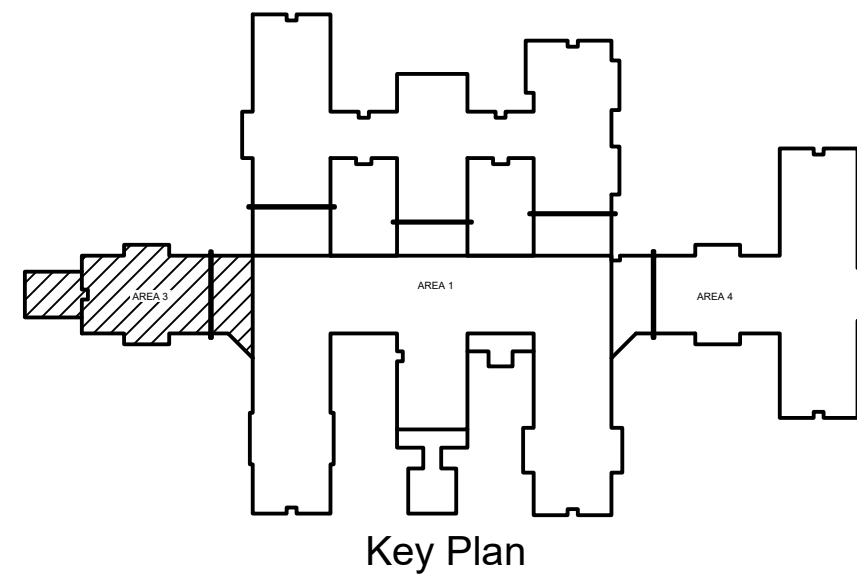
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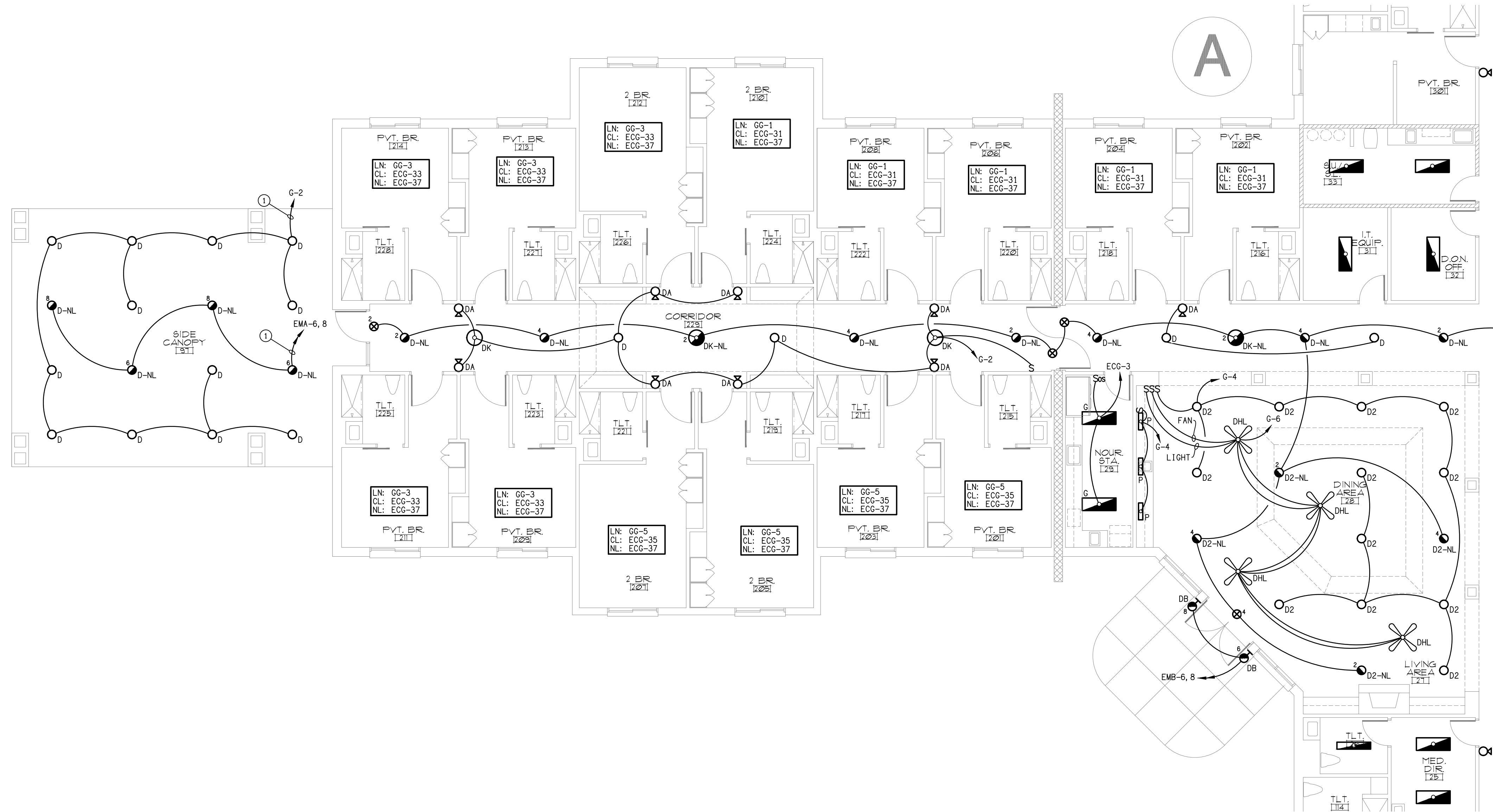
A Partial Lighting Plan
E3 SCALE: 1/8" = 1'-0"

symbol	date	description	by
REVISIONS			



KEY NOTES

- ① PHOTOCELL CONTROL.



A Partial Lighting Plan
E4 SCALE: 1/8" = 1'-0"

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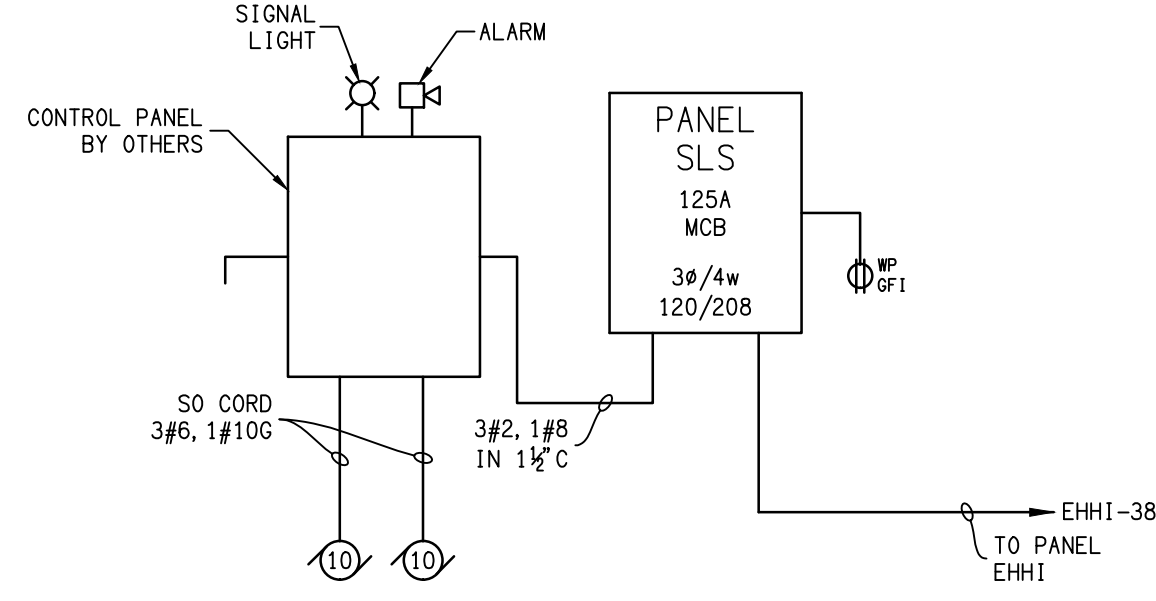
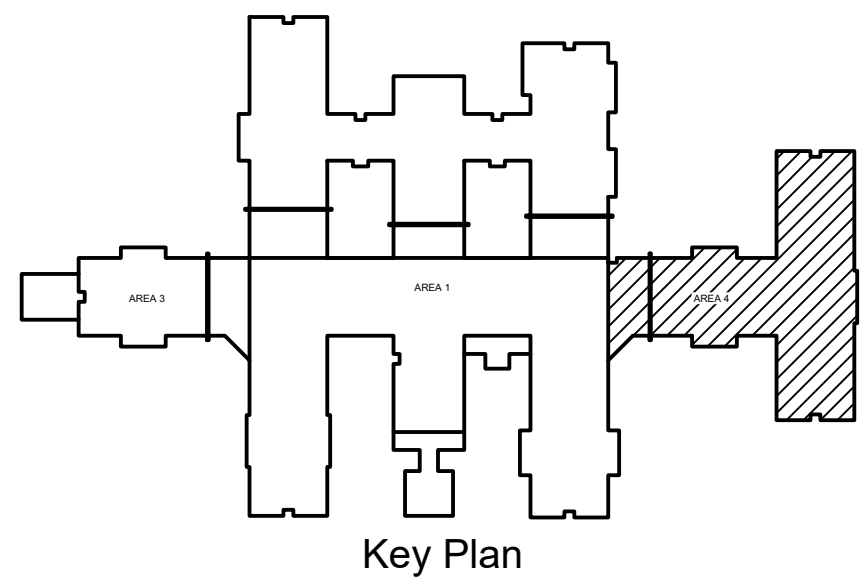
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125 BED FACILITY

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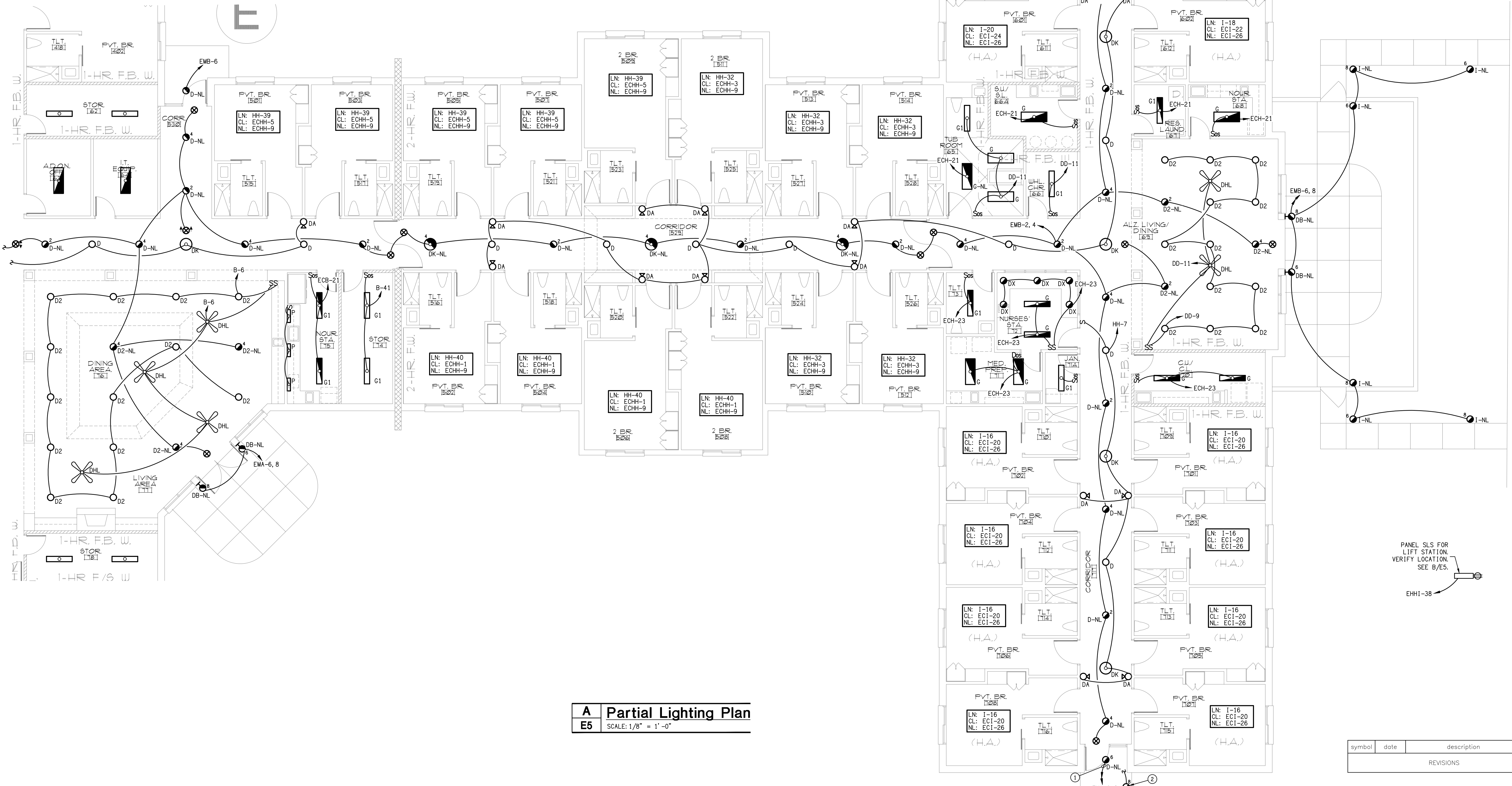
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B Lift Station Riser
E5 SCALE: NTS

KEY NOTES

- ① PHOTOCELL CONTROL.
- ② PLACE LIGHT AT SIDEWALK.



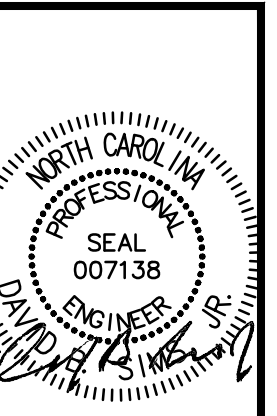
PANEL SLS FOR LIFT STATION
VERIFY LOCATION
SEE B/E5.

EHH1-38

symbol	date	description	by
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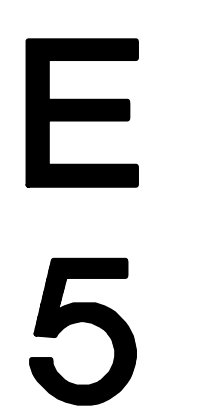


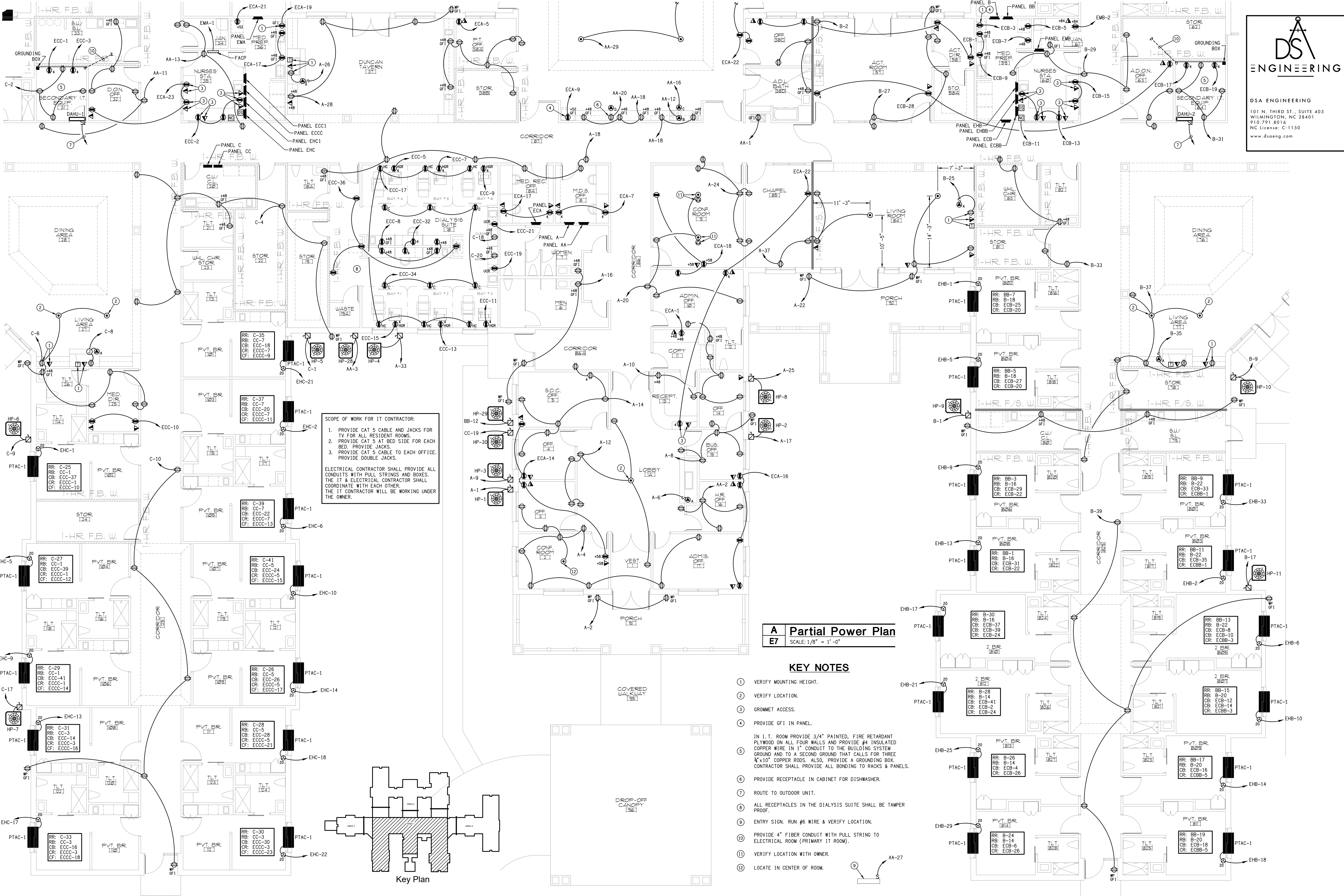
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HEARTLAND LIVING AND REHABILITATION
Greensboro, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite C, Wilmington, NC 28403
Architecture Planning Design

125 BED FACILITY





SCOPE OF WORK FOR IT CONTRACTOR:

1. PROVIDE CAT 5 CABLE AND JACKS FOR TV FOR ALL RESIDENT ROOMS.
2. PROVIDE CAT 5 AT BED SIDE FOR EACH BED. PROVIDE JACKS.
3. PROVIDE CAT 5 CABLE TO EACH OFFICE. PROVIDE DOUBLE JACKS.

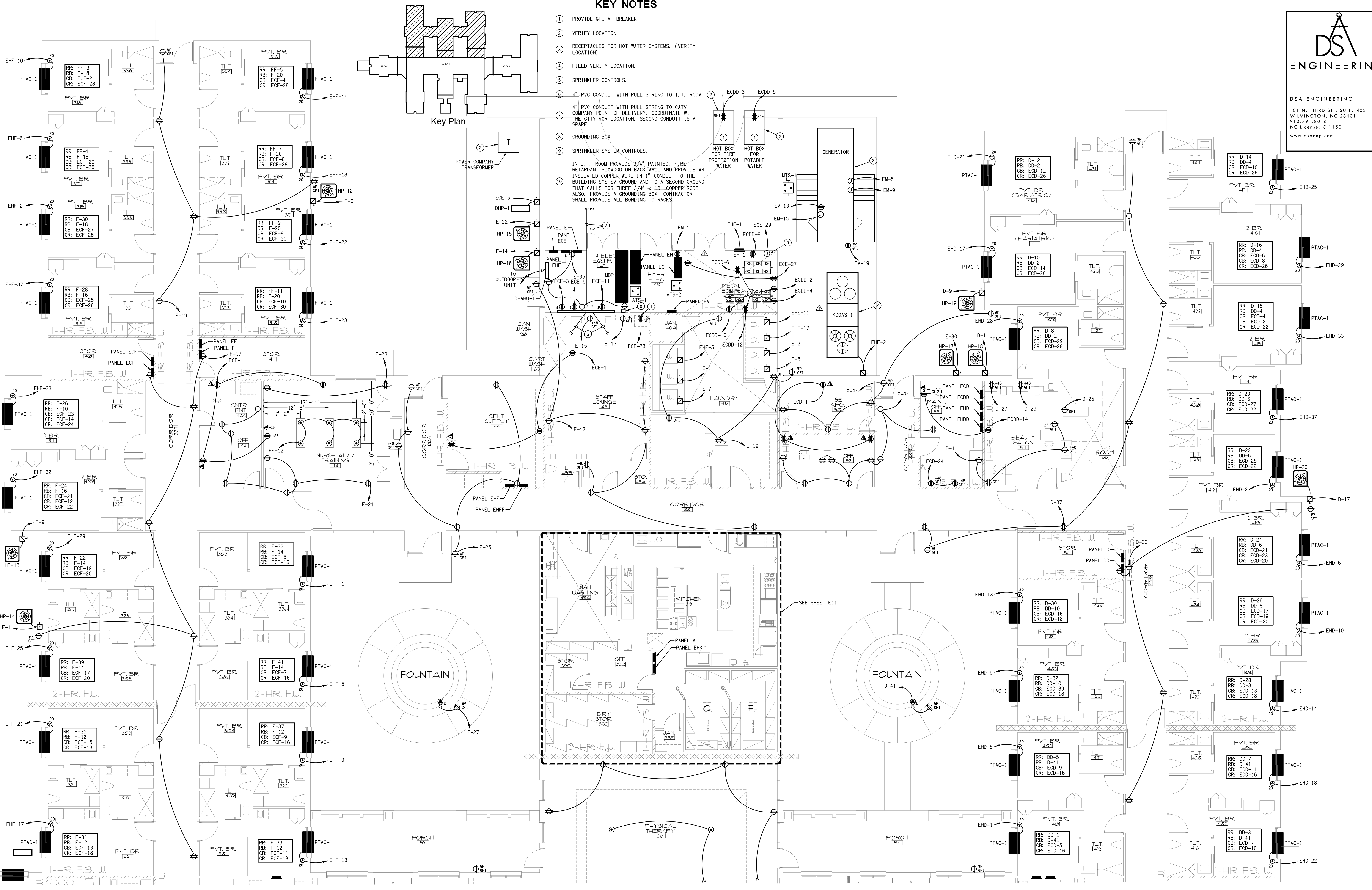
ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL STRINGS AND BOXES. THE IT & ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EACH OTHER. THE IT CONTRACTOR WILL BE WORKING UNDER THE OWNER.

A Partial Power Plan
 E7 SCALE: 1/8" = 1'-0"

KEY NOTES

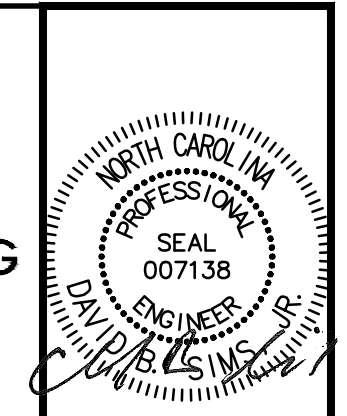
1. VERIFY MOUNTING HEIGHT.
2. VERIFY LOCATION.
3. GROMMET ACCESS.
4. PROVIDE GF1 IN PANEL.
5. IN I.T. ROOM PROVIDE 3/4" PAINTED, FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS AND PROVIDE #4 INSULATED COPPER WIRE IN 1" CONDUIT TO THE BUILDING SYSTEM GROUND AND TO A SECOND GROUND THAT CALLS FOR THREE 3/8"x10" COPPER RODS. ALSO, PROVIDE A GROUNDING BOX. CONTRACTOR SHALL PROVIDE ALL BONDING TO RACKS & PANELS.
6. PROVIDE RECEPTACLE IN CABINET FOR DISHWASHER.
7. ROUTE TO OUTDOOR UNIT.
8. ALL RECEPTACLES IN THE DIALYSIS SUITE SHALL BE TAMPER PROOF.
9. ENTRY SIGN. RUN #6 WIRE & VERIFY LOCATION.
10. PROVIDE 4" FIBER CONDUIT WITH PULL STRING TO ELECTRICAL ROOM (PRIMARY IT ROOM).
11. VERIFY LOCATION WITH OWNER.
12. LOCATE IN CENTER OF ROOM.

symbol	date	description	by
REVISIONS			



- ### KEY NOTES
- ① PROVIDE GF1 AT BREAKER
 - ② VERIFY LOCATION.
 - ③ RECEPTACLES FOR HOT WATER SYSTEMS. (VERIFY LOCATION)
 - ④ FIELD VERIFY LOCATION.
 - ⑤ SPRINKLER CONTROLS.
 - ⑥ 4" PVC CONDUIT WITH PULL STRING TO I. T. ROOM.
 - ⑦ 4" PVC CONDUIT WITH PULL STRING TO CATV COMPANY POINT OF DELIVERY. COORDINATE WITH THE CITY FOR LOCATION. SECOND CONDUIT IS A SPARE.
 - ⑧ GROUNDING BOX.
 - ⑨ SPRINKLER SYSTEM CONTROLS.
 - ⑩ IN I. T. ROOM PROVIDE 3/4" PAINTED, FIRE RETARDANT PLYWOOD ON BACK WALL AND PROVIDE #4 INSULATED COPPER WIRE IN 1" CONDUIT TO THE BUILDING SYSTEM GROUND AND TO A SECOND GROUND THAT CALLS FOR THREE 3/4" x 10" COPPER RODS. ALSO, PROVIDE A GROUNDING BOX. CONTRACTOR SHALL PROVIDE ALL BONDING TO RACKS.

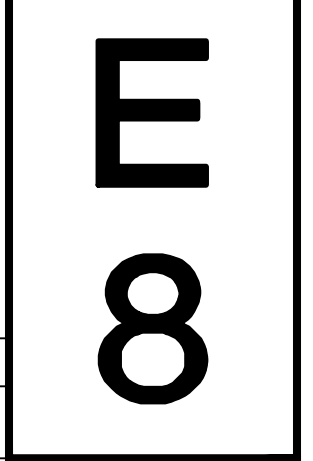
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 Greensboro, North Carolina

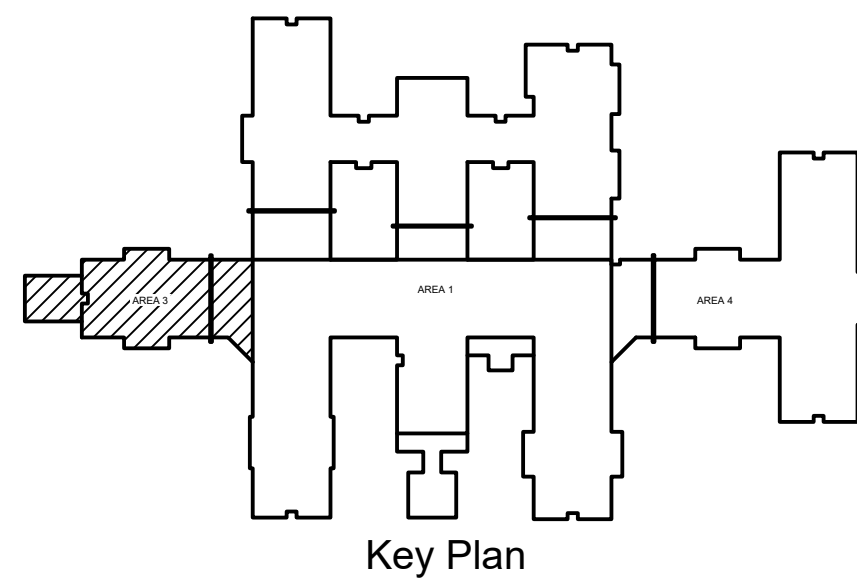
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 Architecture Planning Design

125 BED FACILITY



A Partial Power Plan
E8 SCALE: 1/8" = 1'-0"

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REVISIONS			



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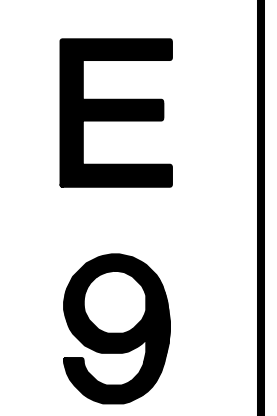
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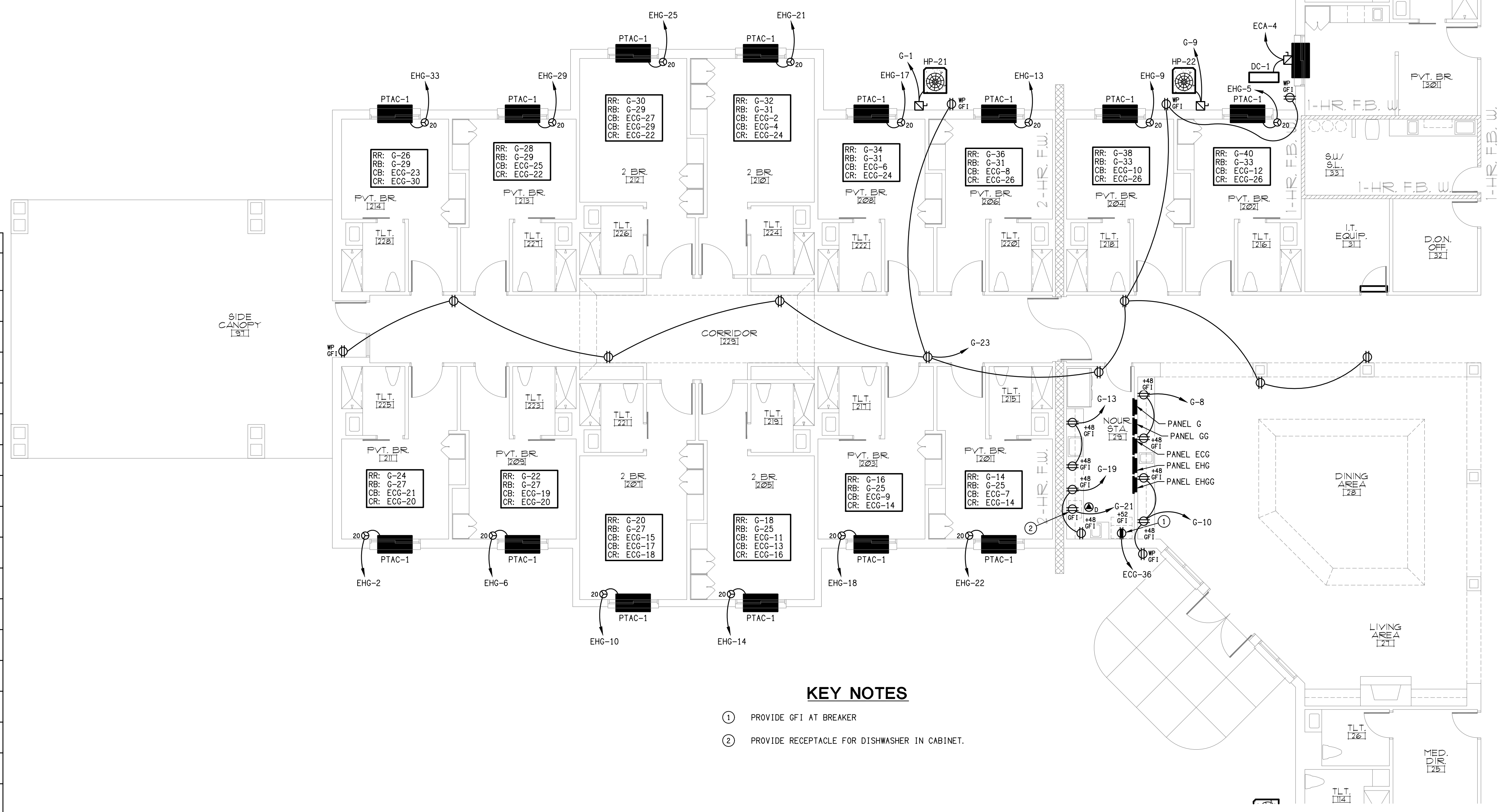
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125 BED FACILITY



EQUIPMENT CONNECTION SCHEDULE											
SYMBOL	DESCRIPTION	HP	KW	AMP	VOLT	PHASE	BKR	FEEDER		CONNECTION	REMARKS
								COND	WIRE		
Ⓐ	FIREPLACE	-	-	10	120	1	20/1	½"	2#12, 1#12G	SWITCH	-
Ⓑ	RANGE	-	-	30	208	1	40/2	¾"	3#8, 1#10G	RECPT	PROVIDE LOCK-OUT BREAKER
Ⓒ	HOOD	-	-	5	120	1	20/1	½"	2#12, 1#12G	RECPT	PROVIDE EXTERNAL SURGE PROTECTION
Ⓓ	DISHWASHER	-	-	12	120	1	20/1	½"	2#12, 1#12G	RECPT	-
Ⓔ	FOUNTAIN PUMP	-	-	10	120	1	20/1	½"	2#12, 1#12G	SWITCH	-
HP-9, 13, 20	1½ TON HEAT PUMP	-	-	13	208	1	20/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	-
HP-2, 8, 11, 27	2 TON HEAT PUMP	-	-	15	208	1	20/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	-
HP-3, 4, 15, 16, 25, 26, 28	2½ TON HEAT PUMP	-	-	16	208	1	25/2	½"	2#10, 1#10G	FUSED DISC NEMA 3R	-
HP-10, 14, 29, 30	3½ TON HEAT PUMP	-	-	24	208	1	40/2	¾"	2#8, 1#10G	FUSED DISC NEMA 3R	-
HP-5	4 TON HEAT PUMP	-	-	25	208	1	45/2	1"	2#8, 1#10G	FUSED DISC NEMA 3R	-
HP-1, 22, 23	5 TON HEAT PUMP	-	-	28	208	1	50/2	1"	2#8, 1#10G	FUSED DISC NEMA 3R	-
AHU-9, 13, 20	AIR HANDLING UNIT	-	3.6	19	208	1	25/2	½"	2#10, 1#10G	FUSED DISC NEMA 1	-
AHU-2, 8, 11, 27	AIR HANDLING UNIT	-	3.6	21	208	1	30/2	½"	2#10, 1#10G	FUSED DISC NEMA 1	-
AHU-3, 4, 15, 16, 25, 26, 28	AIR HANDLING UNIT	-	5.7	30	208	1	40/2	¾"	2#8, 1#10G	FUSED DISC NEMA 1	-
AHU-5, 10, 14, 29, 30	AIR HANDLING UNIT	-	7.2	45	208	1	60/2	1¼"	2#4, 1#10G	FUSED DISC NEMA 1	-
AHU-1, 22, 23	AIR HANDLING UNIT	-	10.8	70	208	1	90/2	1¼"	2#3, 1#8G	FUSED DISC NEMA 1	-
DH-1	DUCT HEATER	-	3	14	208	1	20/2	½"	2#12, 1#12G	FUSED DISC NEMA 1	-
DH-2	DUCT HEATER	-	4	18	208	1	20/2	½"	2#10, 1#10G	FUSED DISC NEMA 1	-
DH-3, 4	DUCT HEATER	-	5	19	208	1	30/2	½"	2#10, 1#10G	FUSED DISC NEMA 1	-
HP-6, 7, 12, 17, 18, 19, 21, 24	VRF HEAT PUMP	-	-	9	208	1	15/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	VERIFY HP-6, 12
AHU-6, 7, 12, 17, 18, 19, 21, 24	VRF AIR HANDLING UNIT	-	-	3	208	1	15/2	½"	2#12, 1#12G	TWO POLE SWITCH	-
EH-1	DUCT HEATER	-	2	12	208	1	20/2	½"	2#12, 1#12G	FUSED DISC NEMA 1	-
DC-1, 2	VRF COOLING UNIT	-	-	10	208	1	20/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	-
DAHU-1, 2	AIR COND. UNIT	-	-	2	208	1	20/2	½"	2#12, 1#12G	CONNECT TO OUTDOOR UNIT	-
DHP-1	DUCTLESS HEAT PUMP	-	-	15	208	1	25/2	½"	2#10, 1#10G	FUSED DISC NEMA 3R	-
W	WASHER	-	-	20	208	3	30/3	½"	3#10, 1#10G	FUSED DISC NEMA 1	-
D	DRYER	-	-	5	208	3	15/3	½"	3#12, 1#12G	FUSED DISC NEMA 1	-
DOAS-K	KITCHEN DPAS	-	-	65	208	3	80/3	1¼"	3#2, 1#8G	FUSED DISC NEMA 3R	-
EF-L EF-R	GREASE FANS	1	-	6	208	1	15/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	-
KF-1	DISHWASHER HOOD	1/2	-	-	208	1	15/2	½"	2#12, 1#12G	FUSED DISC NEMA 3R	-

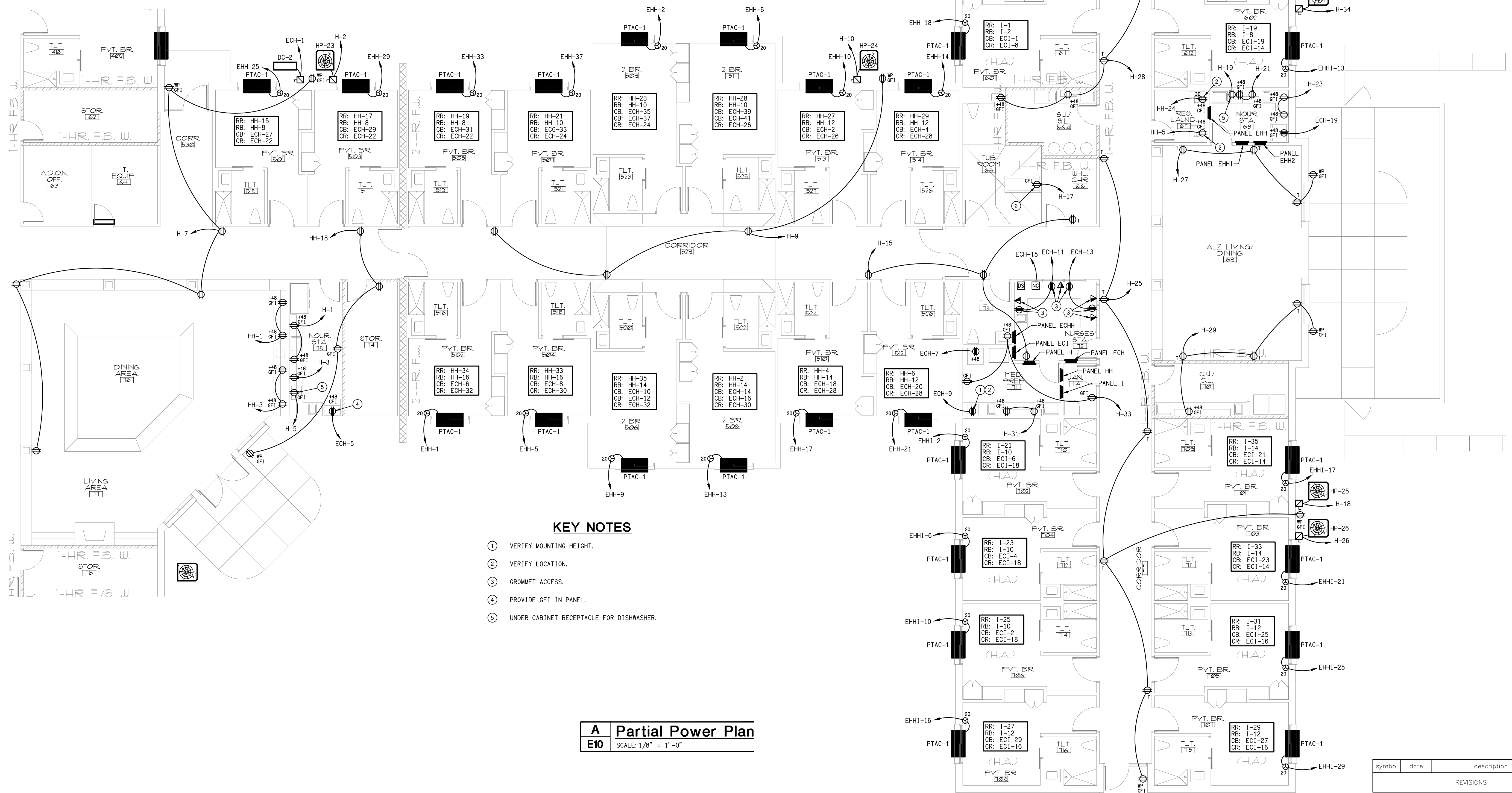
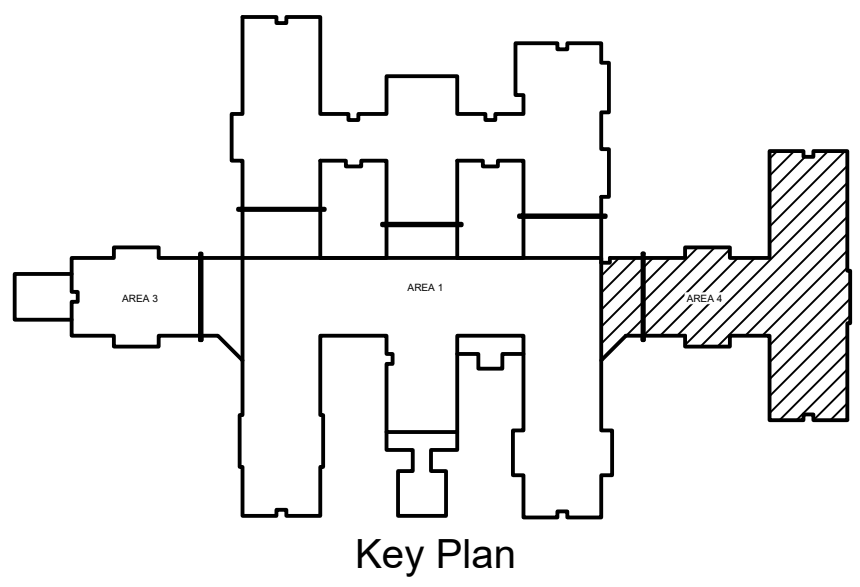
NOTES:
*1.CONTRACTOR SHALL VERIFY ALL CONNECTIONS BEFORE RUNNING SERVICE OR ORDERING EQUIPMENT.



- KEY NOTES**
- ① PROVIDE GF1 AT BREAKER
 - ② PROVIDE RECEPTACLE FOR DISHWASHER IN CABINET.

A Partial Power Plan
E9 SCALE: 1/8" = 1'-0"

symbol	date	description	by
REVISIONS			



- KEY NOTES**
- 1 VERIFY MOUNTING HEIGHT.
 - 2 VERIFY LOCATION.
 - 3 GROMMET ACCESS.
 - 4 PROVIDE GF1 IN PANEL.
 - 5 UNDER CABINET RECEPTACLE FOR DISHWASHER.

A Partial Power Plan
 E10 SCALE: 1/8" = 1'-0"

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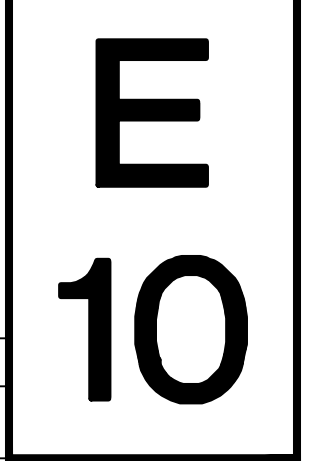
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**HEARTLAND LIVING
 AND REHABILITATION**
 Greensboro, North Carolina

David R. Polston - Architect
 3806 Park Ave. Suite C, Wilmington, NC 28403
 Architecture Planning Design

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EQUIPMENT CONNECTION SCHEDULE											
SYMBOL	DESCRIPTION	HP	KW	AMP	VOLT	PHASE	BKR	FEEDER		CONNECTION	REMARKS
								COND	WIRE		
7	WALK-IN COOLER	-	-	-	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
9	MIXER	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
11	SLICER	-	-	8	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
12	MICROWAVE	-	-	12	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
13	EXHAUST HOOD SYSTEM	-	-	6	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
14	HOOD FIRE SUPPRESSION	-	-	2	120	1	20/1	1/2"	2#12, 1#12G	RECPT	LIFE SAFETY. SEE FIRE ALARM FOR KILL SWITCH.
16	STEAMER	-	-	44	120	1	20/1	1/2"	2#12, 1#12G	RECPT	SHUNT TRIP BREAKER.
17	DOUBLE OVEN	-	-	9	120	1	20/1	1/2"	2#12, 1#12G	RECPT	SHUNT TRIP BREAKER.
20	TWO SECTION REFRIGERATOR	-	-	12	120	1	20/1	1/2"	2#12, 1#12G	RECPT	PROVIDE GF1 IN PANEL.
21	TOASTER	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
23	FOOD DISPOSAL	1	-	8	120	1	20/1	1/2"	2#12, 1#12G	RECPT	VERIFY CONNECTION. SHUNT TRIP BREAKER
25	CHEF'S TABLE	-	-	26	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
25.1	DISH DISPENSER	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
27	TEA URNS	-	-	12	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
28	COFFEE BREWER	-	-	20	120	1	20/1	1/2"	2#12, 1#12G	RECPT	VERIFY CONNECTION
29	HEATED BASE DISPENSER	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
34	CONVEYOR DISHWASHER	-	-	53	208	3	70/3	1/2"	3#4, 1#8G	DISC NEMA 3R	-
35	BOOSTER HEATER	-	-	80	208	3	110/3	1/2"	3#1, 1#6G	DISC NEMA 3R	-
37	COND. HOOD	-	-	3	208	1	15/2	1/2"	2#12, 1#12G	PILOT SWITCH	-
42	MED TEMP COIL	-	-	6	120	1	20/1	1/2"	2#12, 1#12G	TWO POLE SWITCH	-
43	MED TEMP COND.	-	-	18	208	3	30/3	1/2"	3#10, 1#10G	DISC NEMA 3R	-
44	LOW TEMP COIL	-	-	6	120	1	20/1	1/2"	2#12, 1#12G	TWO POLE SWITCH	-
45	LOW TEMP COND.	-	-	18	208	3	30/3	1/2"	3#10, 1#10G	DISC NEMA 3R	-
47	BLIXER	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
48	ICE MAKER	-	-	12	120	1	20/1	1/2"	2#12, 1#12G	RECPT	PROVIDE GF1 IN PANEL.
53	HOT HOLDING CABINET	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	DOOR SWITCH	--
54	FLY FAN	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECPT	-
DF-1, 2	HOOD DISCHARGE	1	-	11	208	1	15/2	1/2"	2#12, 1#12G	DISCONNECT NEMA 3R	-
DH	FREEZER DOWN HEATER	-	-	6	120	1	20/1	1/2"	2#12, 1#12G	SWITCH	-

NOTES:
1. CONTRACTOR SHALL VERIFY ALL CONNECTIONS BEFORE RUNNING SERVICE OR ORDERING EQUIPMENT.

EQUIPMENT NOTES:

- WALL SURFACE FROM BOTTOM OF HOOD TO TOP OF FLOOR BASE FOR LENGTH OF COOKING HOOD TO BE COVERED W/STAINLESS STEEL PANELS.
- ALL PIECES OF KITCHEN EQUIPMENT TO HAVE A NSF LABEL AND BE INSTALLED IN ACCORDANCE WITH CURRENT NSF STANDARDS.
- ALL ELECTRICAL EQUIPMENT TO HAVE U.L. LABEL.
- ALL GAS EQUIPMENT TO HAVE A.G.A. LABEL.
- THE KITCHEN EXHAUST HOOD SHALL BE FACTORY FABRICATED FOR COMPLIANCE WITH NFPA 96, NSF 1362 AND HAVE A U.L. LABEL. SEE DETAIL # 3001 ON SHEET A-30 FOR CROSS-SECTION OF HOOD INSTALLATION PLUS REQUIRED FIRE PROTECTION AND CLEARANCES OF DUCT SHAFTS.
- THE FIRE SUPPRESSION SYSTEM SHALL BE AN ANSUL MODEL R-102 SYSTEM. A READILY ACCESSIBLE MEANS TO MANUALLY ACTUATE THE FIRE EXTINGUISHING EQUIPMENT SHALL BE PROVIDED IN A PATH OF EGRESS AND SHALL BE CLEARLY IDENTIFIED. THE OPERATION OF THE ANSUL SYSTEM SHALL AUTOMATICALLY SHUT OFF ALL SOURCES OF FUEL AND HEAT TO ALL EQUIPMENT UNDER THE KITCHEN EXHAUST HOOD AND ALSO AUTOMATICALLY ACTIVATE THE BUILDING FIRE ALARM SYSTEM.
- THE DISHWASHER CONDENSATE HOOD SHALL BE FACTORY FABRICATED AND HAVE BOTH A U.L. LABEL AND NSF LABEL. SEE DETAIL # 3002 ON SHEET A-30 FOR CROSS-SECTION OF HOOD INSTALLATION PLUS REQUIRED FIRE PROTECTION AND CLEARANCES OF DUCT SHAFTS.

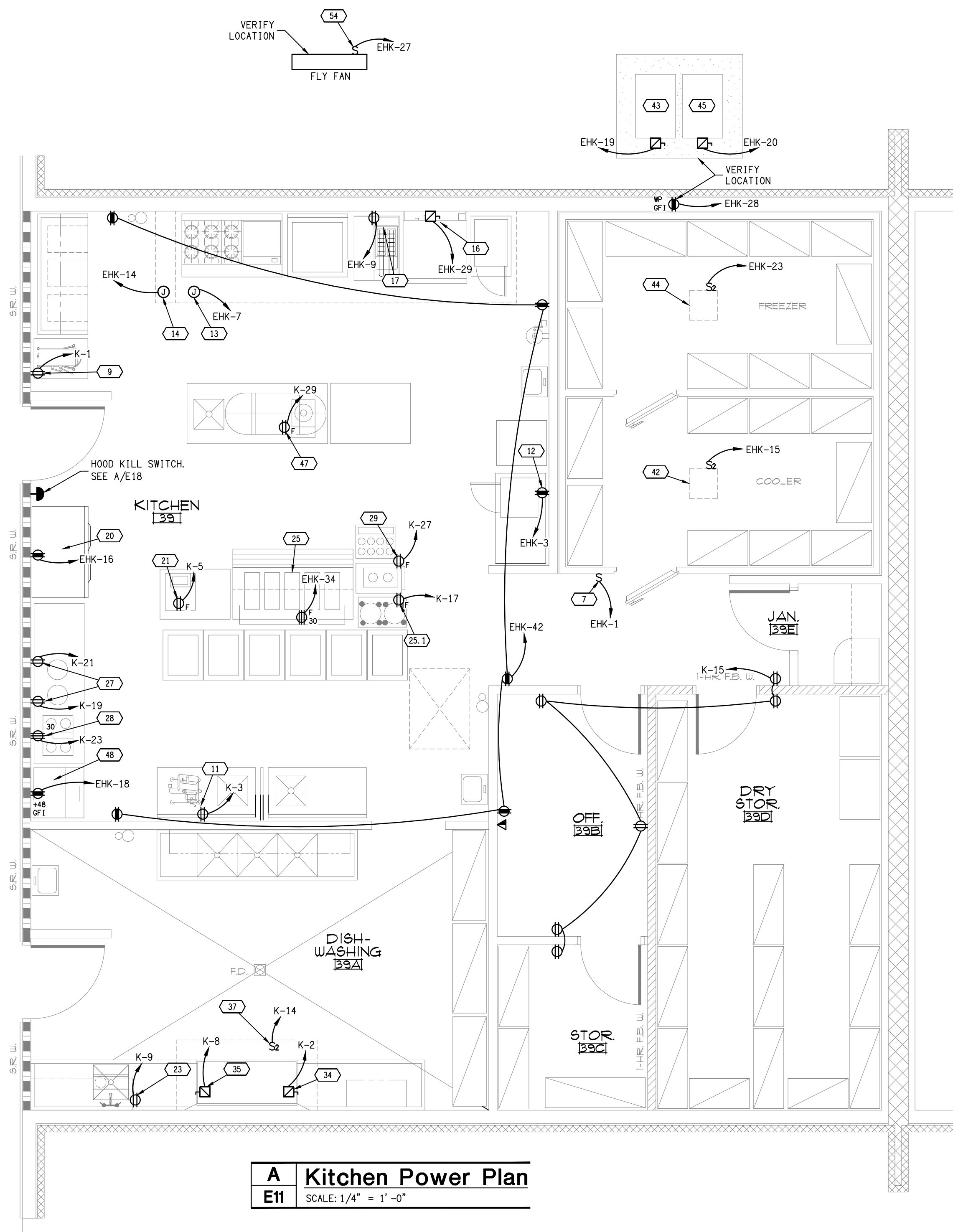
KITCHEN DERATING SCHEDULE

APPLIANCE	KW	QUANTITY	TOTAL KW
20 QT MIXER	0.9	1	0.9
SLICER	0.8	1	0.8
STEAMER	1.0	1	1.0
TOASTER	0.8	1	0.8
TEA URN	1.0	2	2.0
COFFEE	5.0	1	5.0
HEATED BASE DISP.	0.9	1	0.9
BOOSTER HEATER	20.0	1	20.0
CONVEYOR DISHWASHER	28.0	1	28.0
BLIXER	0.9	1	0.9
HOT HOLDING CABINET	0.9	1	0.9
TOTAL LOAD			61.2

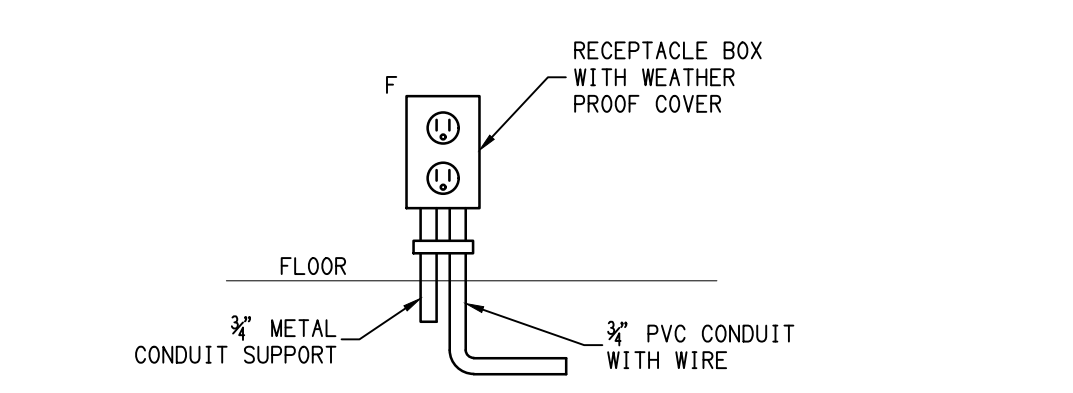
DERATING FACTOR: .65
39,800W = 111 AMPS
208 X 1.73

GENERAL NOTES:

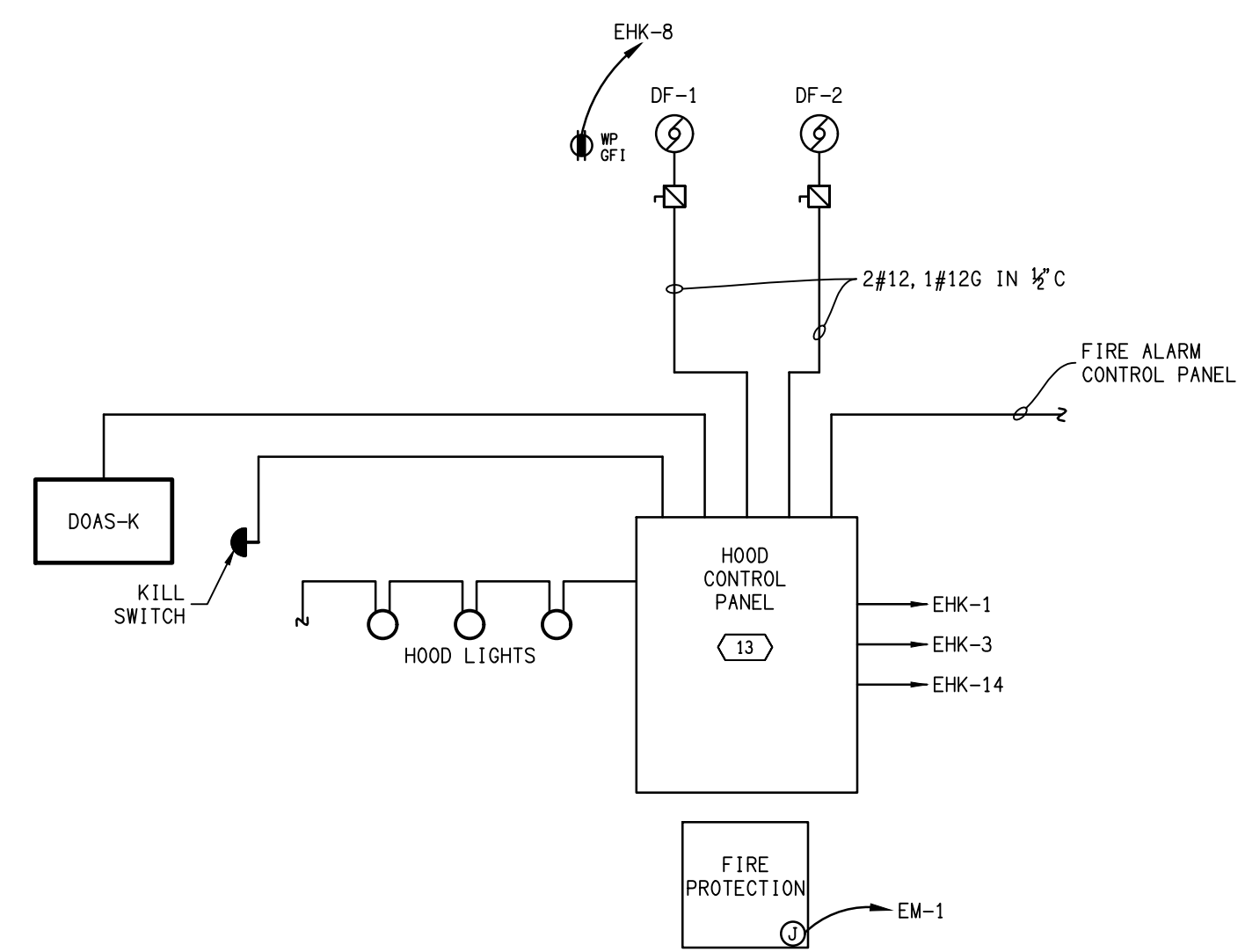
- CONTRACTOR SHALL VERIFY THE HOOD CONTROL PANEL CONNECTIONS AND MAKE ANY CHANGES NEEDED AT NO ADDITIONAL COST TO THE OWNER INCLUDING ADDING A SUB PANEL TO SERVE THE HOOD.
- THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL CONNECTIONS BEFORE WORK BEGINS AND MATERIALS ARE ORDERED.
- ALL RECEPTACLES IN KITCHEN THAT ARE 50 AMPS & SMALLER SHALL BE GF1.
- THE OPERATION OF FIRE EXTINGUISHING SYSTEMS OR SUPPRESSION SYSTEMS SHALL INITIATE AN ALARM SIGNAL BY ALARM-INITIATING DEVICES INSTALLED IN ACCORDANCE WITH THEIR INDIVIDUAL LISTINGS.



A Kitchen Power Plan
E11 SCALE: 1/4" = 1'-0"



C Floor Mounted Receptacle Box
E11 SCALE: NTS



B Hood Power Riser
E11 SCALE: NTS

symbol	date	description	by
REVISIONS			

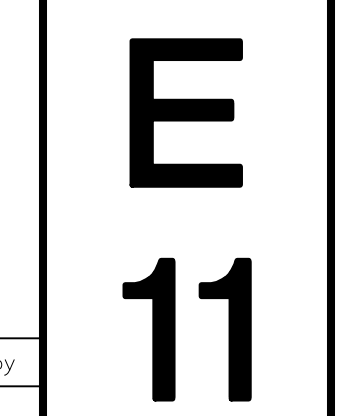
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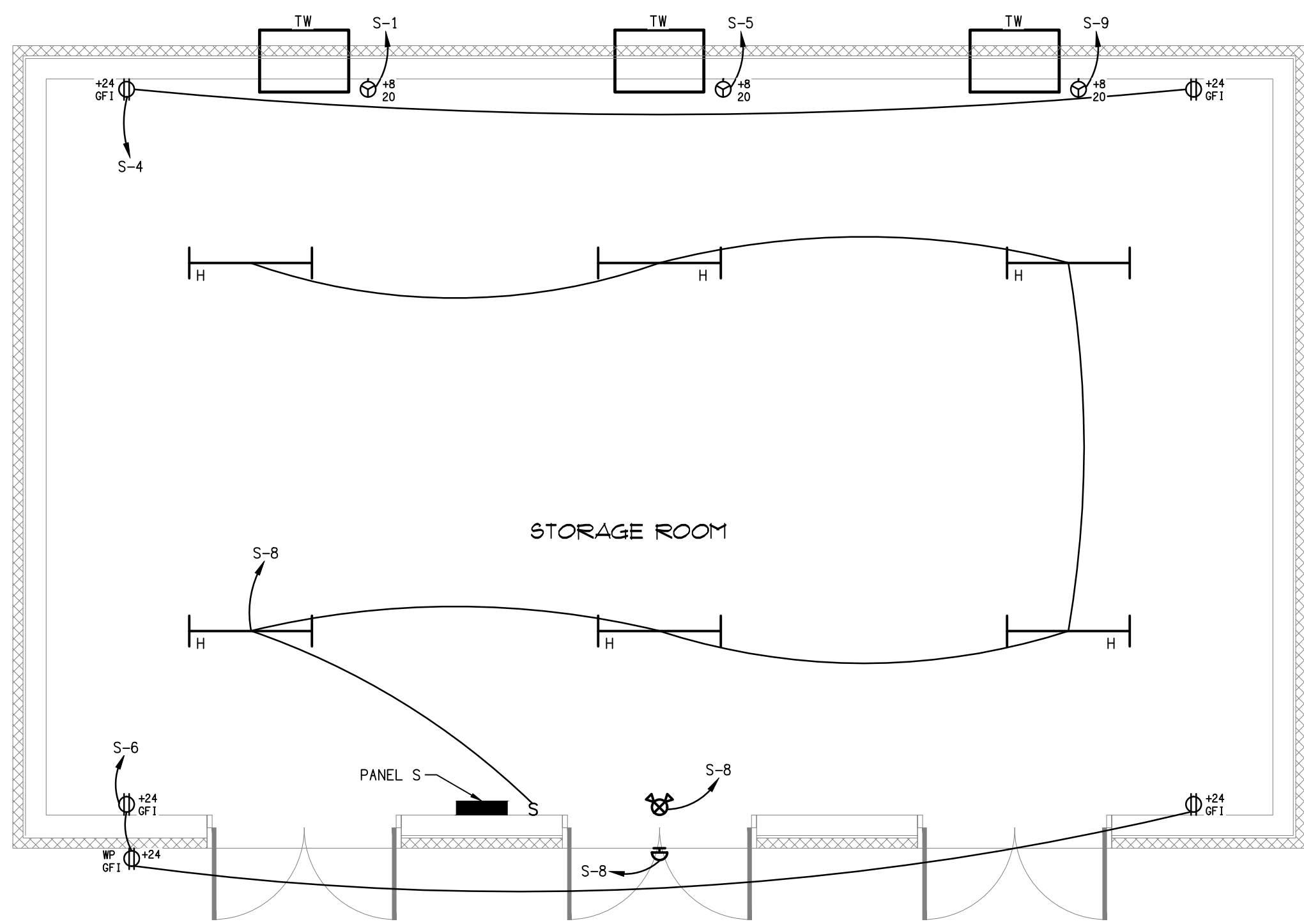
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SEAL 007138
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Greensboro, North Carolina

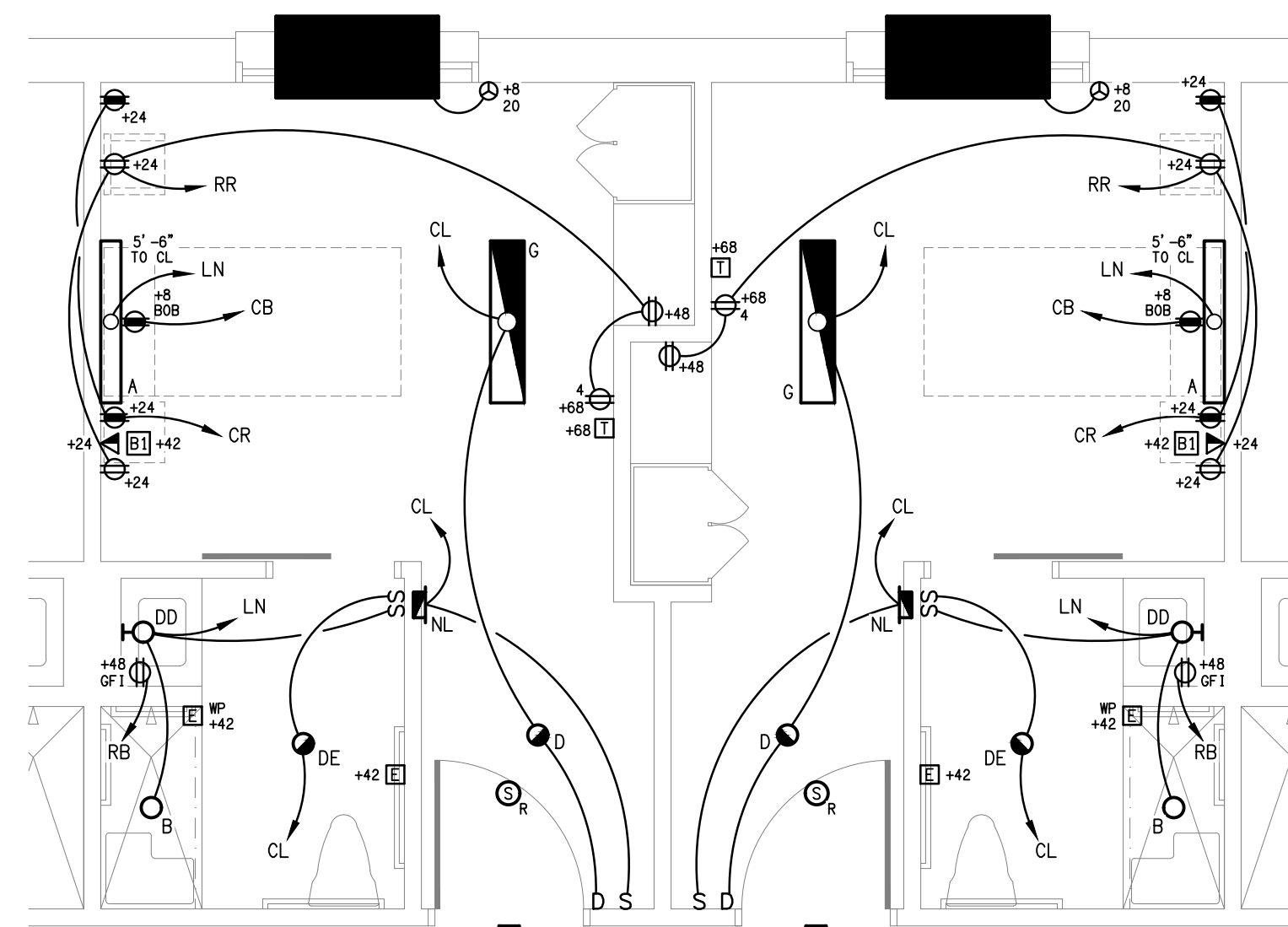
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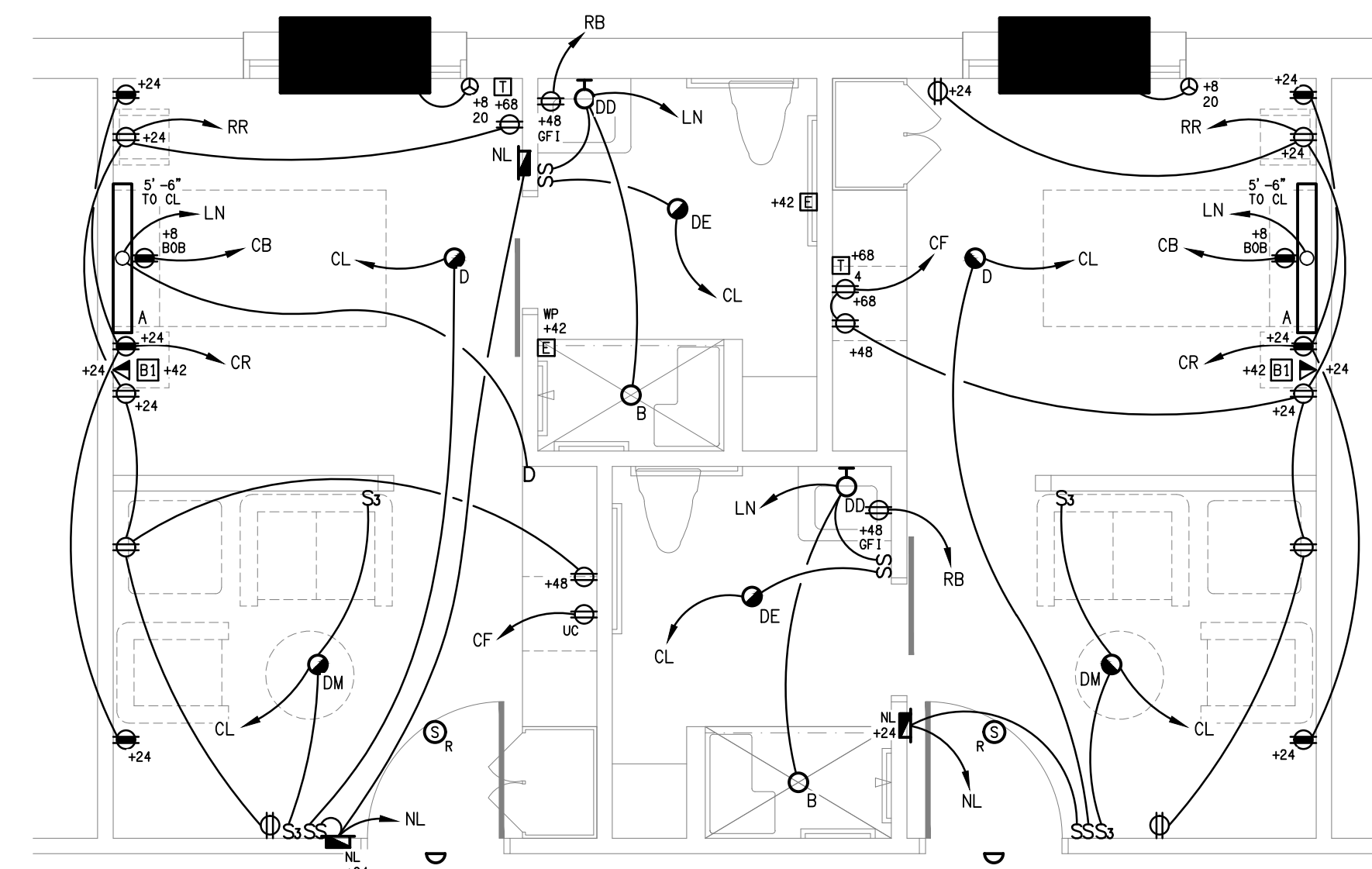




F Lighting & Power Plan - Storage
E12 SCALE: 1/4" = 1'-0"



A Typical Private Bedroom Suite - Type One
E12 SCALE: 1/4" = 1'-0"

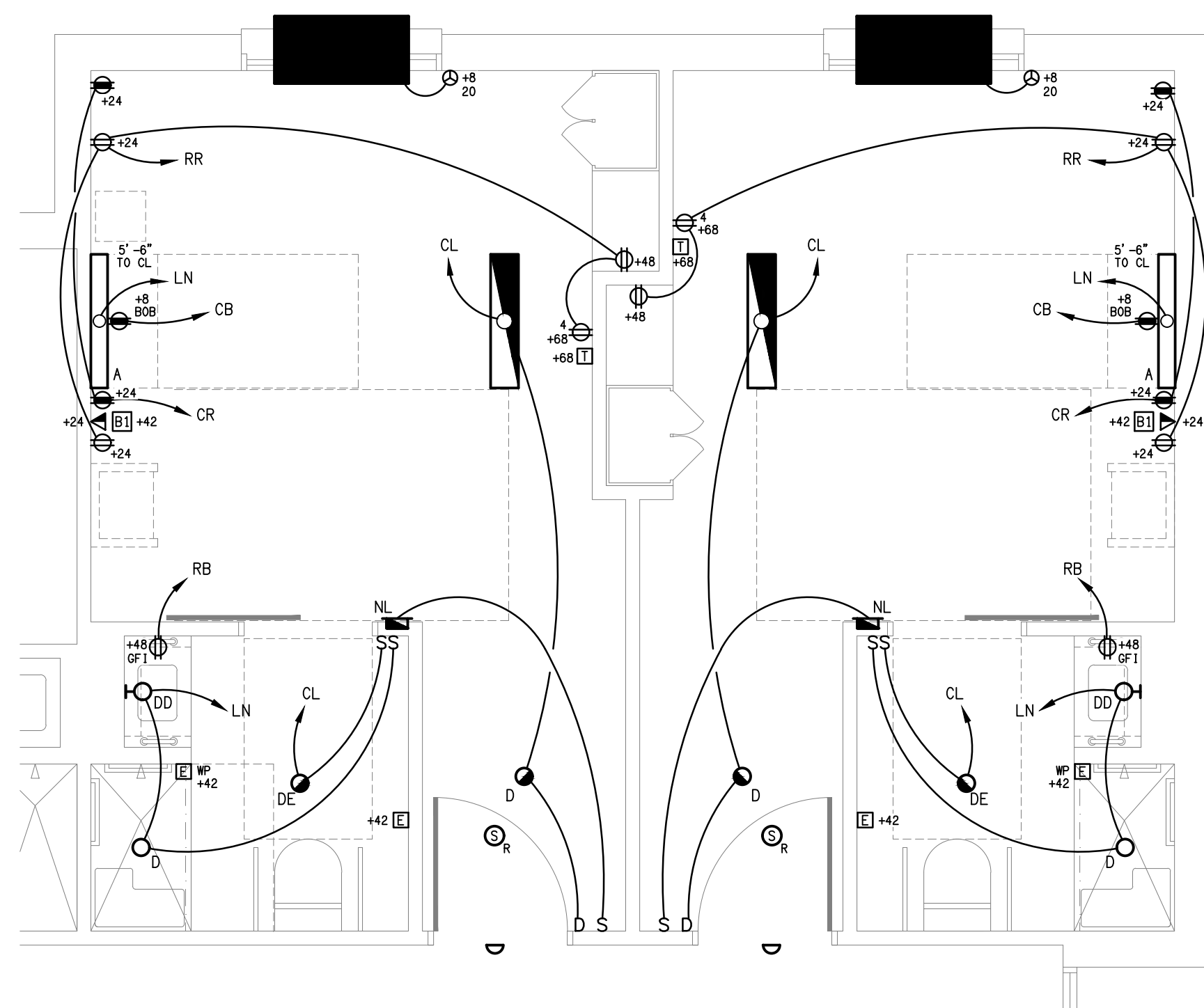


B Typical Private Bedroom Suite - Type Two
E12 SCALE: 1/4" = 1'-0"

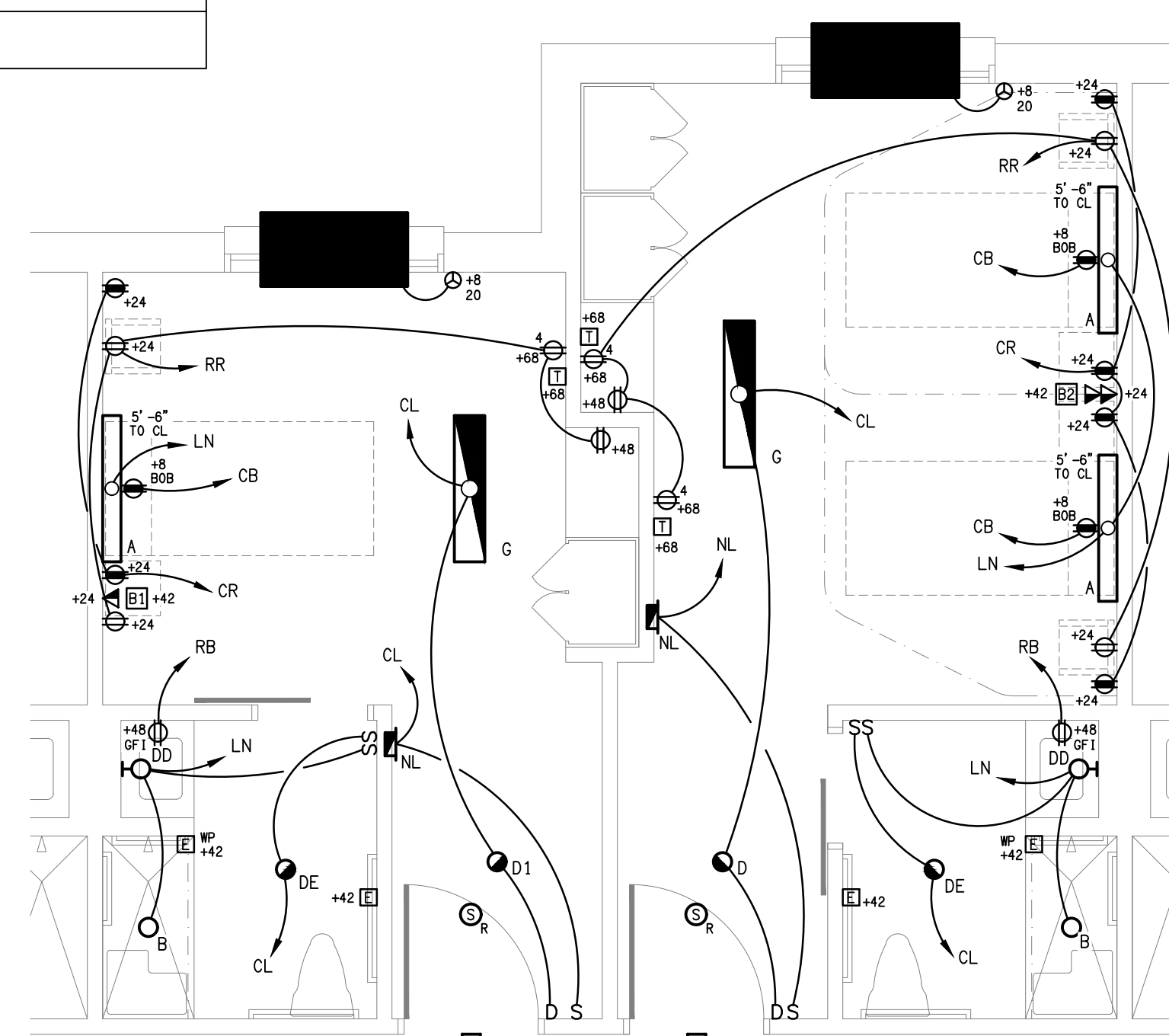
WIRE SIZE LEGEND

SYMBOL	DESCRIPTION
RR	RECEPTACLE CIRCUIT NORMAL POWER
RB	BATHROOM RECEPTACLE NORMAL POWER
LN	LIGHT CIRCUIT NORMAL POWER
CL	LIGHT CIRCUIT CRITICAL POWER
CB	RECEPTACLE CRITICAL POWER FOR BED
CR	RECEPTACLE CRITICAL POWER FOR HEAD WALL
CE	RECPT

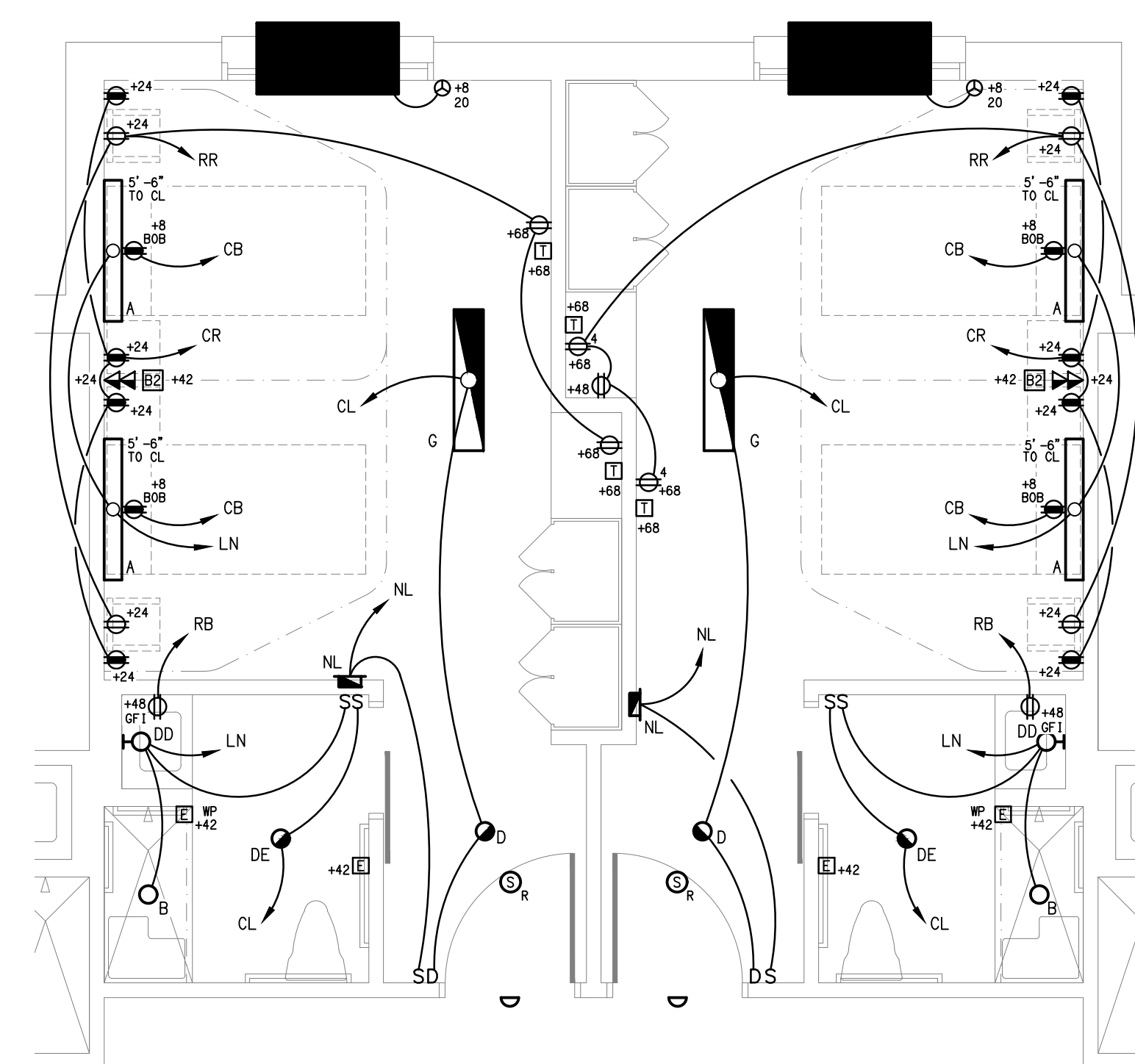
- NOTES:**
1. ALL OF THE RECEPTACLES THAT ARE IN MEMORY CARE SHALL BE TAMPER PROOF.
 2. BREAKERS FOR ALL PATIENT ROOMS THAT SERVE RECEPTACLES OR LIGHTS SHALL BE ARC FAULT.



C Typical Private Bariatric Suite
E12 SCALE: 1/4" = 1'-0"



D Half Private Suite/Half Semi-Private Suite
E12 SCALE: 1/4" = 1'-0"



E Typical Semi-Private Bedroom Suite
E12 SCALE: 1/4" = 1'-0"

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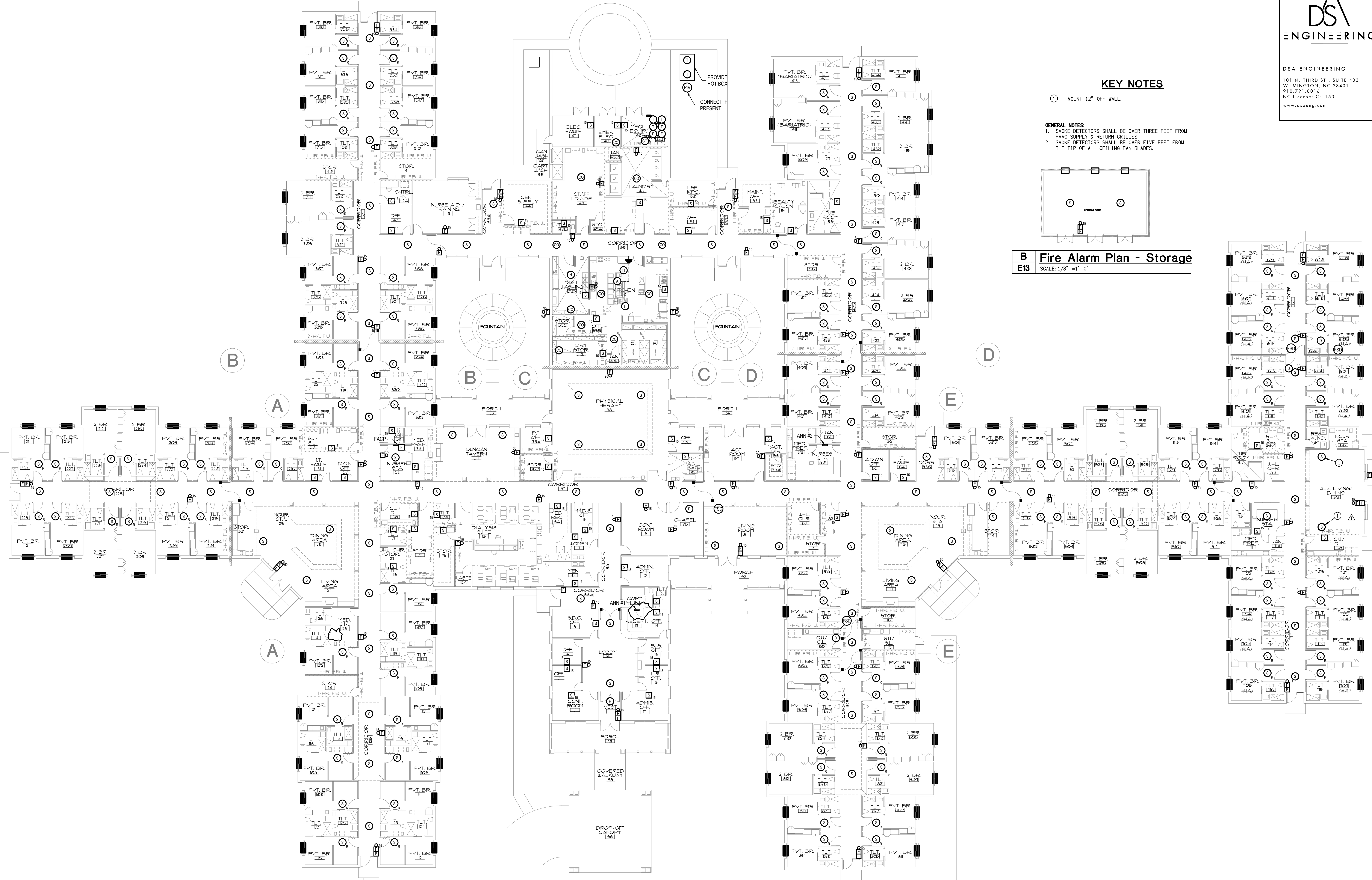
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125 BED FACILITY

12

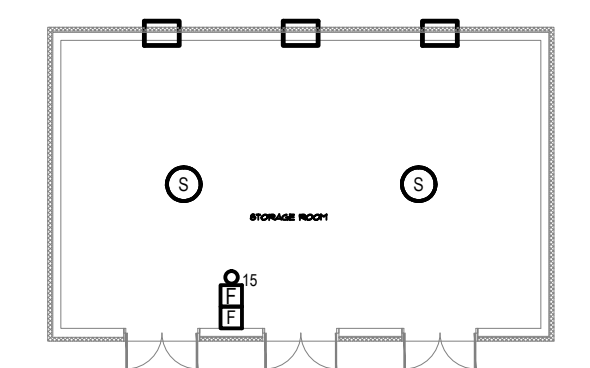
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KEY NOTES

- ① MOUNT 12" OFF WALL.

- GENERAL NOTES:**
1. SMOKE DETECTORS SHALL BE OVER THREE FEET FROM HVAC SUPPLY & RETURN GRILLES.
 2. SMOKE DETECTORS SHALL BE OVER FIVE FEET FROM THE TIP OF ALL CEILING FAN BLADES.



B Fire Alarm Plan - Storage
 E13 SCALE: 1/8" = 1'-0"

A Fire Alarm Plan
 E13 SCALE: 1/16" = 1'-0"

symbol	date	description	by
REVISIONS			

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	MANUAL PULL STATION MTD. AT 40" TO CENTER
	SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED
	RESIDENT SMOKE DETECTOR & SOUNDER, PHOTOELECTRIC TYPE, CEILING MOUNTED
	CHIME/STROBE, XX CANDELA, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX
	STROBE ONLY, XX CANDELA, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX
	HEAT DETECTOR, RATE OF RISE INDICATED IN DEGREES
	PRESSURE OR FLOW SWITCH BY OTHERS
	TAMPER SWITCH BY OTHERS
	DUCT DETECTOR
	POST INDICATOR VALVE BY OTHERS
	FIRE SMOKE DAMPER
	MAGNETIC DOOR HOLDERS
	FIRE ALARM PANEL
	AIR HANDLING UNIT BY MECHANICAL CONTRACTOR - SHUTDOWN, SHUTDOWN, RELAY & WIRING BY ELECTRICAL CONTRACTOR
	REMOTE CONTROL ANNUNCIATOR
	WEATHERPROOF
	EXTERIOR BELL
	HOOD FIRE SUPPRESSION SYSTEM
	AIR HANDLING UNIT, SEE MECHANICAL PLANS FOR LOCATIONS
	DEDICATED OUTSIDE AIR UNIT, SEE MECHANICAL PLANS FOR LOCATIONS
	CARBON MONOXIDE DETECTOR
	HOOD SHUT DOWN
	ROOM SOUNDER

FIRE ALARM NOTIFICATION

THE FIRE ALARM SYSTEM IS REQUIRED TO TRANSMIT AN ALARM AUTOMATICALLY TO THE FIRE DEPARTMENT (OR AGENCY) THAT IS LEGALLY COMMITTED TO SERVE THE AREA IN WHICH THE FACILITY IS LOCATED BY THE MOST DIRECT AND RELIABLE METHOD APPROVED BY THE LOCAL ORDINANCE. PROVIDE DUAL LINE DIALER FOR THIS SERVICE.

THE SIGNAL MUST GENERATE A SIGNAL IN THE NURSING FACILITY THAT CAN BE TRANSMITTED AUTOMATICALLY OVER THE CORRECT GRADE OF TELEPHONE CIRCUITS AND BE RECOGNIZED BY EQUIPMENT LOCATED IN THE CENTRAL STATION.

THE CONTRACTOR SHALL PROVIDE THE NECESSARY DEDICATED CIRCUIT (LEASED, INSTALLED OR OTHERWISE) FROM THE TELEPHONE COMPANY WHICH CAN CARRY THE NECESSARY SIGNAL FROM THE FACILITY TO THE MONITORING CENTER.

THE CONTRACTOR SHALL PAY ALL CONNECTION FEES ASSOCIATED WITH THE CONNECTION TO THE MONITORING AGENCY.

IF THE PROPER EQUIPMENT DOES NOT EXIST AT THE LOCAL FIRE DEPARTMENT TO RECEIVE THE SIGNAL THEN THE CONTRACTOR SHALL PROVIDE THE PROPER EQUIPMENT.

IF THE LOCAL ORDINANCE DOES NOT ALLOW AUTOMATIC ALARM EQUIPMENT TO BE PLACED IN THE FIRE DEPARTMENT, THE CONTRACTOR MUST OBTAIN THE SERVICES OF AN APPROVED MONITORING AGENCY WHO CAN RECEIVE THE SIGNAL, INTERPRET IT AS A FIRE ALARM SIGNAL AND THEN TELEPHONE THE LOCAL FIRE DEPARTMENT TO REPORT THE ALARM.

- NOTES:
- COORDINATE WITH MECHANICAL CONTRACTOR TO KEEP ALL SMOKE DETECTORS 3'-0" MINIMUM FROM ALL HVAC SUPPLY AND RETURN REGISTERS AND MAINTAIN A MAXIMUM OF 3'-0" SPACING BETWEEN SMOKE DETECTORS IN THE CORRIDORS AND A 1'-0" MINIMUM DISTANCE FROM EXTERIOR DOORWAYS AND 5'-0" FROM INTERIOR DOORWAYS IN CORRIDORS. CONTRACTOR SHALL ADD ANY DETECTORS REQUIRED TO MEET THE ABOVE SPACING AT NO EXPENSE TO THE OWNER.
 - FIRE ALARM TAMPER SWITCH SHALL BE CONNECTED TO FIRE ALARM PANEL TROUBLE ALARM. WHEN TROUBLE ALARM SOUNDS IT CANNOT BE SILENCED UNTIL THE VALVE IS FULLY OPENED.
 - ALL FIRE ALARM CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
 - PROVIDE RELAY MODULE FOR:
 - MAGNETIC DOOR HOLDERS
 - AHU SHUTDOWN
 - DOAS SHUTDOWN
 - VAHU SHUTDOWN
 - PROVIDE DUAL LINE DIALER AND CONNECT PHONE DIALER TO A CENTRAL MONITORING STATION. PROVIDE DIALER IF NEEDED. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED FOR THIS CONNECTION AND SHALL PAY ALL FEES REQUIRED FOR THIS CONNECTION. PHONE DIALER SHALL BE A DUAL LINE DIALER PROVIDED BY THE CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL PROVIDE ANY REQUIRED SHUT DOWN RELAYS AT THE HVAC UNIT AND SHALL PROVIDE ALL WIRING AND CONNECTIONS.
 - ALL AHU'S & DOAS'S SHALL SHUT DOWN ON GENERAL ALARM.
 - ALL SECURITY OPERATED DOORS SHALL OPEN UPON GENERAL ALARM CONDITIONS.
 - INTERIOR TAMPER SWITCHES, PRESSURE OR FLOW SWITCHES AND TAMPER SWITCH AT POST INDICATING VALVE SHALL BE BY OTHERS WITH CONNECTION AND INSTALLATION BY THE CONTRACTOR. ALL OTHER EQUIPMENT AND INSTALLATION SHALL BE BY THE CONTRACTOR INCLUDING DUCT DETECTORS AND TAMPER SWITCHES IN THE BACKFLOW PREVENTOR PIT.
 - UPON COMPLETION OF THE INSTALLATION THE CONTRACTOR SHALL PROVIDE SMOKE DETECTOR SENSITIVITY REPORT AT THE FINAL STATE INSPECTION - SEE SPECS FOR COPY OF REPORT.
 - SYSTEM SHALL BE POWER LIMITED TYPE.
 - ALL COMPONENTS SHALL REFLECT U.L. LISTING AND LABELING FOR FIRE SERVICE USE AND SHALL BE COMPATIBLE.
 - SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 72E, 70, ARTICLE 760-15, -16, -21, 7 NFPA 101 ARTICLE 7-6 AND ANSI A.17.1.4.26
 - ALL STROBES SHALL COMPLY WITH ADA REQUIREMENTS.
 - UPON ACTIVATION OF THE FIRE ALARM SYSTEM BY A MANUAL STATION, SMOKE DETECTOR, DUCT DETECTOR, ANSUL SYSTEM, FLOW OR PRESSURE SWITCHES THE FOLLOWING TAKES PLACE:
 - ENERGIZE ALL ALARM SIGNALING DEVICES.
 - SOUND ALL AUDIBLE ALARMS AND FLASH VISUAL SIGNAL THROUGHOUT THE BUILDING.
 - ALERT THE LOCAL FIRE DEPARTMENT OR PROPRIETARY SYSTEM.
 - CAUSE ALARM TO BE DISPLAYED ON THE ANNUNCIATOR AND ON THE CONTROL PANEL.
 - CLOSE ALL DOORS WHICH ARE HELD OPEN BY AUTOMATIC RELEASE DEVICES THROUGHOUT THE FACILITY OR BY ZONE.
 - SHUT DOWN ALL AHUS.
 - PROVIDE A COMPLETE ZONE NAME LIST SUCH THAT IT CAN BE DETERMINED IF THE SMOKE COMPARTMENT NAME IS USED IN EACH ZONE NAME AND THE ZONE NAMES HAVE BEEN COORDINATED WITH THE SMOKE COMPARTMENTS.
 - STROBE & STROBE/HORN CANDELA RATING:
 - HALL WAY & ROOMS 20x20 & SMALLER - 15/75 CANDELA
 - ROOMS LARGER THAN 20x20 CANDELA - 15/95 TO 110 CANDELA
 - EXTERIOR - 110 CANDELA
 - PROVIDE TAMPER SWITCH FOR BACKFLOW PREVENTOR. VERIFY WHETHER TAMPER SWITCH IS IN THE BUILDING OR IN A PIT ON THE SITE.
 - ALL STROBES AND STROBE/CHIMES SHALL BE ADJUSTABLE FOR LIGHT LEVEL AND AUDIO. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL BATTERY BOOSTER STATIONS & CONNECT TO A DEDICATED LIFE SAFETY CIRCUIT AT NO ADDITIONAL COST TO THE OWNER.
 - SYSTEM SHALL BE CLASS B WITH INDIVIDUAL SMOKE COMPARTMENTS. USE ISOLATION MODULES.
 - FIELD LOCATE THE REMOTE BOOSTER STATIONS. ALL LIFE SAFETY PANELS HAVE SPARE BREAKERS TO SERVE THOSE STATIONS.
 - PROVIDE ISOLATION MODULES AS NEEDED.
 - CONNECT ALL BATTERIES & REMOTE BATTERIES ON LIFE SAFETY 120V-200V SERVICE. PROVIDE LOCK-OUT BREAKER PAINTED RED.
 - FOR HALL SMOKE DETECTORS, IDENTIFY WHICH SMOKE COMPARTMENTS THAT THEY ARE LOCATED.
 - POST A MAP OF ALL SMOKE COMPARTMENTS SHOWING THE FIRE ALARM PLAN WITH ITS SMOKE COMPARTMENT. VERIFY LOCATION.
 - ALL REMOTE BATTERY CHARGERS SHALL BE CONNECTED TO A DEDICATED LIFE SAFETY RECEPTACLE WITH A LOCK-OUT BREAKER PAINTED RED. SEVERAL SPARE 15A BREAKERS ARE IN ALL LIFE SAFETY PANELS FOR THAT USE. IF USED, PROVIDE LOCK-OUT BREAKER AND ALL NEEDED WIRING FROM THE PANEL TO THE BATTERY CHARGING STATION.
 - SMOKE COMPARTMENTS SHALL BE INSTALLED AS SEPARATE SMOKE ZONES PER 2013 NFPA-72.
 - ALL SMOKE COMPARTMENTS SHALL BE PROGRAMMED AND INSTALLED WHERE FAILURE IN ONE SMOKE COMPARTMENT WILL NOT SHUT DOWN THE OTHER COMPARTMENTS.
 - COORDINATE WITH THE ELECTRICAL CONTRACTOR TO KEEP ALL SMOKE DETECTORS AWAY FROM THE TIP OF THE CEILING FAN BLADES.

DIGITAL COMMUNICATOR: (NOT NEEDED IF EXISTING IS ADEQUATE)

A. THE COMMUNICATOR SHALL TRANSMIT SIGNALS TO A CENTRAL STATION AND SHALL BE UL OR FM LISTED FOR FIRE REPORTING TO A CENTRAL STATION. THE COMMUNICATOR SHALL CONFORM TO THE REQUIREMENTS OF NFPA 72.

THE DIGITAL COMMUNICATOR SHALL PROVIDE POWER AND NECESSARY COMPONENTS FOR FOUR SUPERVISED DETECTION CIRCUITS. ONE SHALL BE CLASS A AND THREE SHALL BE CLASS B.

THE CONTROL COMMUNICATOR SHALL HAVE THE CAPABILITY TO SUPERVISE TWO TELEPHONE LINES, SEIZE THE PHONE LINE AND SEND THE ALARM SIGNAL ON ONE OR BOTH LINES WITHOUT THE ADDITION OF ANY MORE EQUIPMENT. IT SHALL SOUND A LOCAL TROUBLE SIGNAL IF THE TELEPHONE SERVICE IS INTERRUPTED FOR LONGER THAN 45 SECONDS AND IT SHALL TRANSMIT A SIGNAL INDICATING THE LOSS OF PHONE LINE SERVICE TO THE CENTRAL STATION OVER THE REMAINING PHONE LINE. A SIGNAL SHALL ALSO BE TRANSMITTED INDICATING THE RESTORATION OF PHONE SERVICE. THE CONTROL COMMUNICATOR SHALL BE ABLE TO REPORT THE LOSS OF EITHER PHONE LINE WITHOUT REGARD TO WHICH PHONE LINE FAILED FIRST. IF BOTH LINES FAIL, A LOCAL SIGNAL SHALL SOUND.

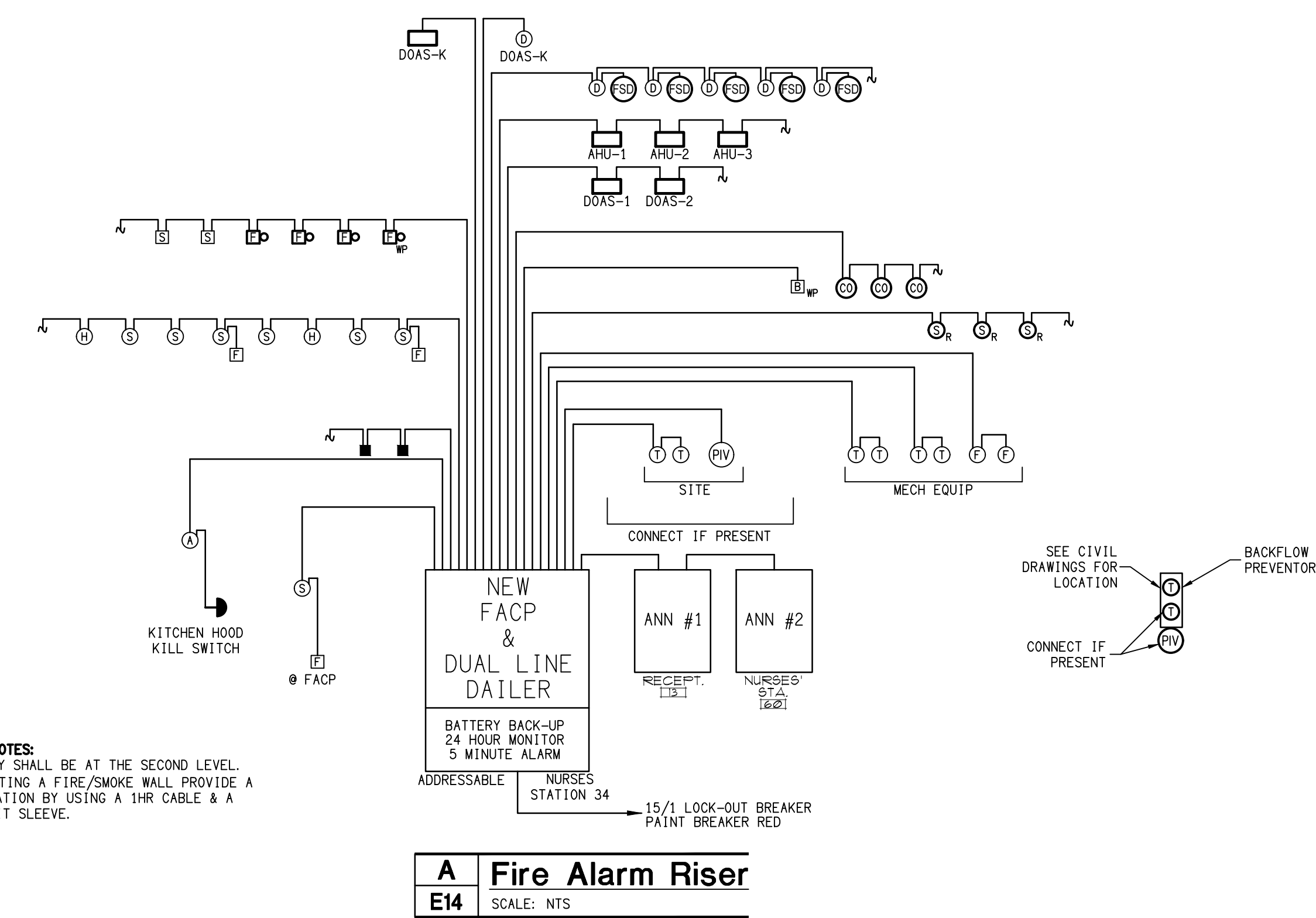
THE CONTROL COMMUNICATOR SHALL HAVE THE ABILITY TO SEND A TEST SIGNAL TO THE CENTRAL STATION EVERY 24 HOURS. THE TEST SIGNAL SHALL BE ABLE TO BE TRANSMITTED AT A SPECIFIC TIME OF DAY OR NIGHT BY SETTING A PROGRAM WITHIN THE PANEL.

THE COMMUNICATOR SHALL BE ABLE TO TRANSMIT ALL SIGNALS IN THE STANDARD SIA FORMAT (SECURITY INDUSTRY ASSOCIATION).

THE ALARM SIGNALS TRANSMITTED TO THE CENTRAL STATION SHALL INDICATE WHICH OF THE ZONES IS IN ALARM AND WHICH ZONES ARE IN TROUBLE. RESTORATION FROM ALARM OR TROUBLE SHALL ALSO BE TRANSMITTED BY ZONE.

B. ALL WIRING FOR THE DIGITAL COMMUNICATOR SHALL BE IN 3/4" CONDUIT.

- INSTALLATION NOTES:
- WIRE SHALL BE COPPER.
 - ALL WIRE SHALL BE CAPPED AND RUN IN CONDUIT (EXCEPTION SEE NOTE 4)
 - MINIMUM CONDUIT SIZE SHALL BE 3/4" EMT WITH JUNCTION BOXES - PAINTED RED.
 - U.L. APPROVED FIRE ALARM CABLE MARKED FPL PER NEC 760-28 SHALL BE ALLOWED IN CONCEALED IN NON-PLENUM AREAS ONLY WHEN NOT EXPOSED TO MECHANICAL DAMAGE Routed IN FINISHED AREA AND TO COMPLY WITH NFPA-72 OTHERWISE ROUTE IN METAL CONDUIT.
 - ALL ALARM CIRCUITS SHALL BE 14 AWG MIN. SIGNAL CIRCUITS CAN BE 16 AWG MIN. ALL OTHER WIRE SHALL BE SIZED PER MFG INSTRUCTIONS.
 - ALL ALARM CIRCUITS SHALL BE 24V MIN.
 - DUCT DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
 - THE FIRE SMOKE DAMPER SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
 - FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.



SURVIVABILITY NOTES:

- SURVIVABILITY SHALL BE AT THE SECOND LEVEL.
- WHEN PENETRATING A FIRE/SMOKE WALL, PROVIDE A 2 HR PENETRATION BY USING A 1HR CABLE & A METAL CONDUIT SLEEVE.

A Fire Alarm Riser
E14 SCALE: NTS

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7/28/25

HEARTLAND LIVING AND REHABILITATION
Greensboro, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite C, Wilmington, NC 28403
Architecture Planning Design

125 BED FACILITY

E 14

symbol	date	description	by
REVISIONS			

NURSE'S CALL LEGEND	
NS	NURSE'S CALL MASTER STATION
BS	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., ONE STATION
BS	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., TWO STATIONS
E	NURSE'S CALL, EMERGENCY STATION IN TOILET AND BATHS 3'-6" TO CENTERLINE, WEATHERPROOF
D	NURSE'S CALL, DOME LIGHT, MOUNT ON CEILING
D ₂	ZONE NURSE'S CALL DOME LIGHT
LED	NURSE' CALL, DIRECTIONAL LED LIGHT, ARROW TO INDICATE AREA OF PATIENT NEED
VL	VISIBLE DUTY LIGHT

NURSE CALL NOTES:

- AUDIBLE SIGNAL AND VISIBLE DUTY LIGHT SHALL ACTIVATE AT NURSING STATION WHEN THE NURSE CALL SYSTEM ACTIVATES.
- ALL EMERGENCY PULL STATION IN THE SHOWERS SHALL BE WATERPROOF.
- VISIBLE DUTY LIGHT SHALL BE CONNECTED TO THE NURSE CALL PANEL AND SHALL ACTIVATE WHEN NURSE CALL SIGNALS ARE ACTIVATED.
- PUSH BUTTON SHALL ACTIVATE LIGHT SOUNDER AT NURSE'S STATION AND LIGHT ON THE CEILING OVER DOOR.
- HALL LIGHTS SHALL HAVE TWO LIGHTS. BED STATION SHALL ACTIVATE ONE LIGHT AND THE TOILET/SHOWER STATION SHALL ACTIVATE THE SECOND LIGHT.
- RESTROOM SHALL HAVE PULL CORD TO ACTIVATE SYSTEM LIKE PUSH BUTTON.
- THE EMERGENCY "E" SHALL CAUSE LIGHTS TO FLASH AND THE BED STATION "B" SHALL CALL FOR STEADY LIGHT.
- SYSTEM SHALL BE TWO WAY VOICE COMMUNICATION.
- OWNER SHALL APPROVE NURSE CALL SYSTEM BEFORE MATERIALS ARE ORDERED.
- THE CONTRACTOR SHALL CONNECT TO THE CRITICAL POWER SYSTEM. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE CRITICAL POWER SERVICE.
- CONTRACTOR SHALL PROVIDE ALL CONDUIT, MATERIALS, ETC. FOR A COMPLETE AND OPERATING HARD WIRED SYSTEM.
- SYSTEM SHALL BE WIRELESS & SHALL MEET THE REQUIREMENTS OF UL 1069 EDITION #7.
- ALL DOME LIGHTS SHALL BE CEILING MOUNTED.
- NURSE CALL MANUFACTURER IS JERON PROVIDER 790.
- PROVIDE NURSE CALL DOCUMENTATION.
- BATHROOM NURSE CALL SHALL BE INSTALLED 12" OFF THE FRONT OF THE TOILET BOWL AND 42" ABOVE THE FLOOR.

DOOR SECURITY LEGEND	
DS	DOOR SECURITY CONTROL PANEL
S	EMERGENCY SHUTOFF, PROVIDE CLEAR PLASTIC COVER WITH SOUNDER
S _{WP}	EMERGENCY SHUTOFF, PROVIDE CLEAR PLASTIC COVER WITH SOUNDER EXTERIOR, WEATHERPROOF
CR	CARD READER - INTERIOR
CR _{WP}	CARD READER - EXTERIOR, WEATHER PRPF
M	MAGNETIC DOOR LOCK
M _H	MAGNETIC DOOR HOLDERS
B	DOORBELL
DB	DOORBELL BUTTON
W	WANDERGAURD CONTROLLED WITH DELAYED EGRESS
DR	DOOR RELEASE
AP	AI PHONE STATION
MS	MOTION SENSOR
DC	DOME CAMERA - WEATHERPROOF
WG	WANDERGAURD
RE	REQUEST TO EXIT
F	WiFi BOX. SEE NOTES 10 AND 11.

MAG LOCK NOTES:

- ALL MAGNETIC LOCKS SHALL OPEN UNDER THE FOLLOWING CONDITIONS:
 - COMMERCIAL POWER FAILURE
 - ACTIVATION OF THE FIRE ALARM
 - ACTIVATION OF SHUT-OFF SWITCH AT NURSE'S STATION.
- INDIVIDUAL DOORS SHALL OPEN UPON:
 - KEYPAD OPERATOR LOCATED WITHIN 3'-0" OF DOOR
 - SWITCH LOCATED BEHIND CLEAR PLASTIC LOCATED WITHIN 3'-0" OF DOOR.
- THIS SYSTEM SHALL MEET ALL REQUIREMENTS OF NC STATE CODE.
- AT EACH NURSE'S STATION INCLUDE A WIRING DIAGRAM UNDER GLASS. WIRING DIAGRAM SHALL IDENTIFY PANEL AND BREAKER FOR 120V SERVICE.
- BOX COVERING THE BREAK GLASS SWITCH SHALL SOUND LOCAL ALARM WHEN LIFTED.
- ALL DOORS SHALL HAVE DELAYED EGRESS LOCKING PER 2018 NC STATE BUILDING CODE 407.12.
- SYSTEM SHALL BE APPROVED BY THE LOCAL AUTHORITY BEFORE AND AFTER INSTALLATION.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING TO THE CRITICAL POWER SYSTEM WHEREVER 120V CRITICAL POWER IS NEEDED.
- CONFIRM WITH THE OWNER WHETHER KEYPADS OR CARD READERS WILL BE USED.
- CONNECT TO IT SYSTEM.
- VERIFY THE REQUIRED SPACING.

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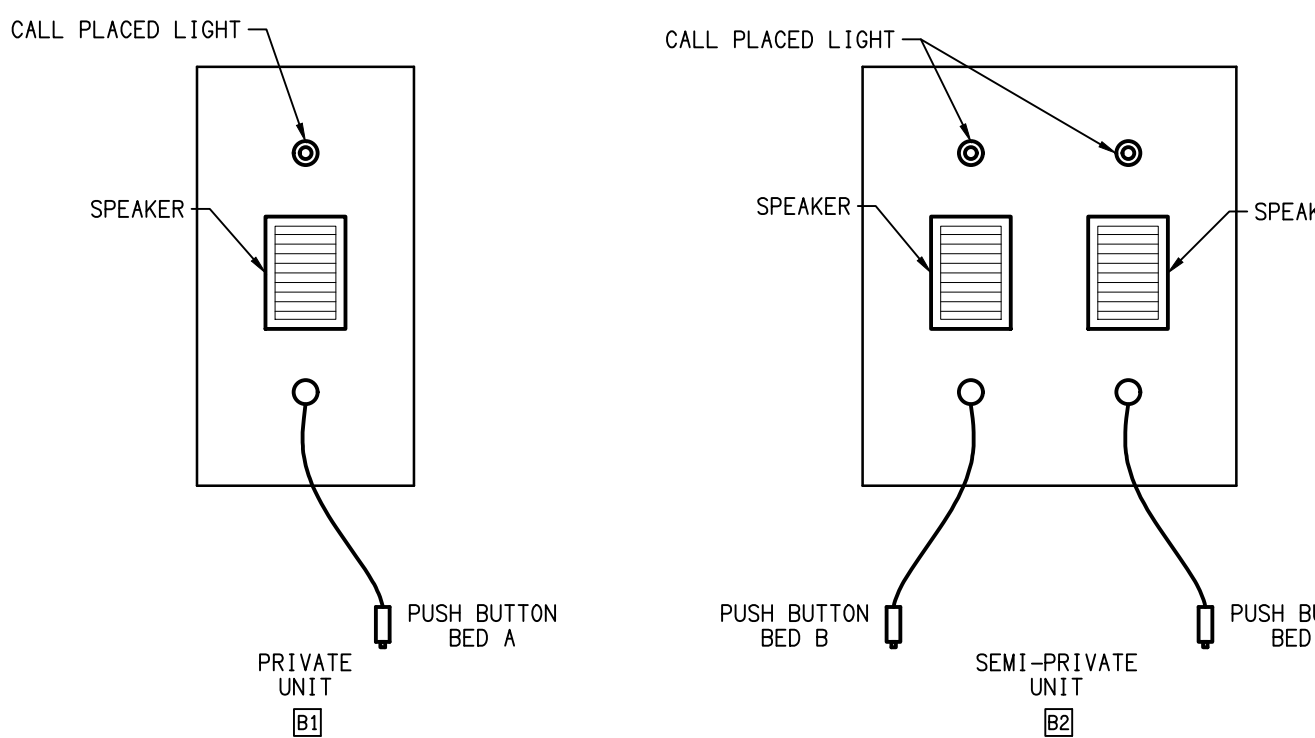
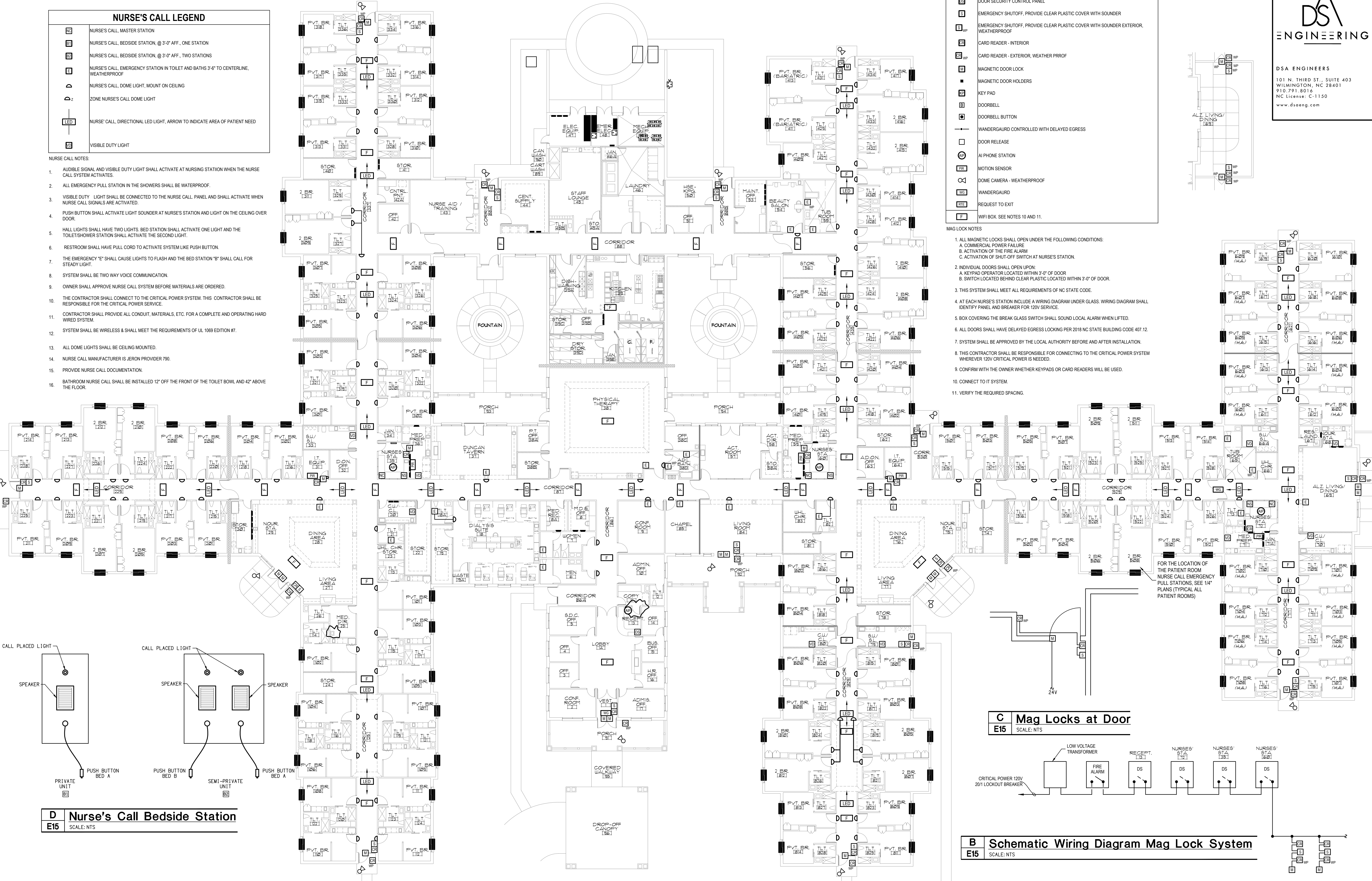
PROFESSIONAL ENGINEER
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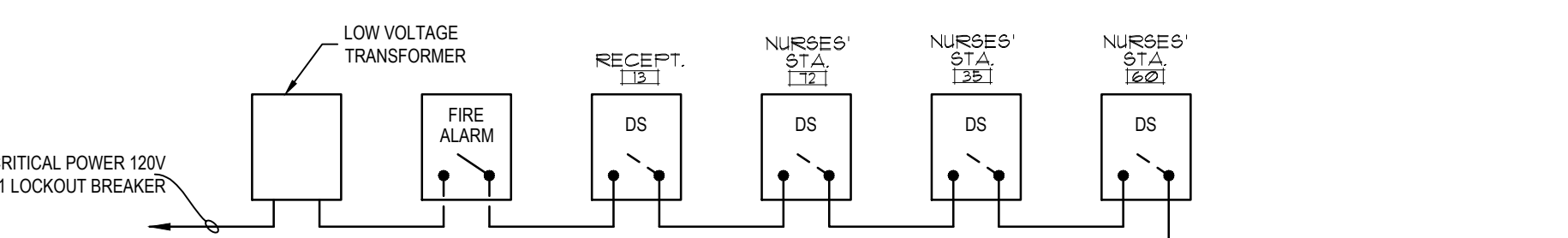
125 BED FACILITY

15



D Nurse's Call Bedside Station
 E15 SCALE: NTS

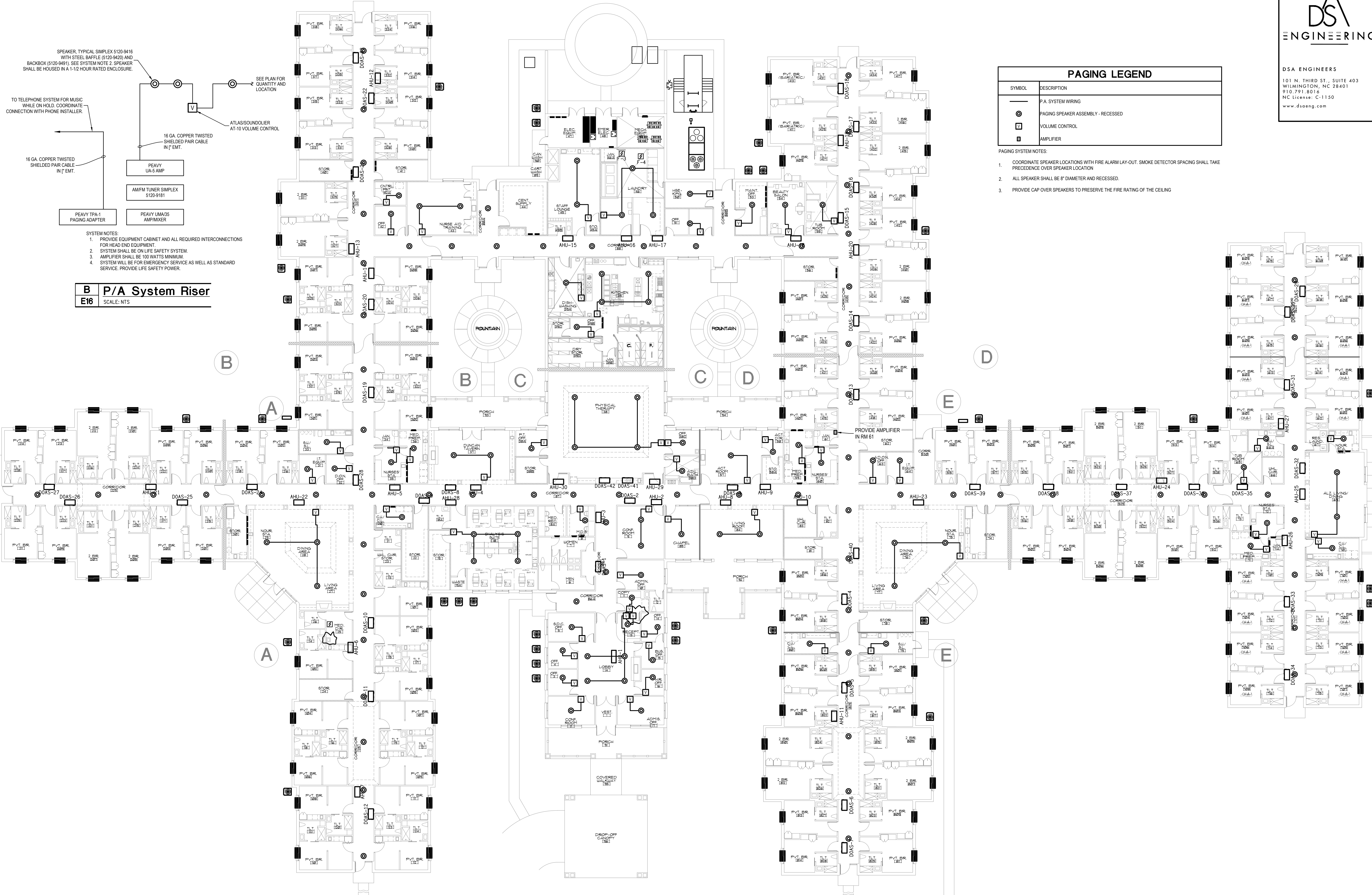
C Mag Locks at Door
 E15 SCALE: NTS



B Schematic Wiring Diagram Mag Lock System
 E15 SCALE: NTS

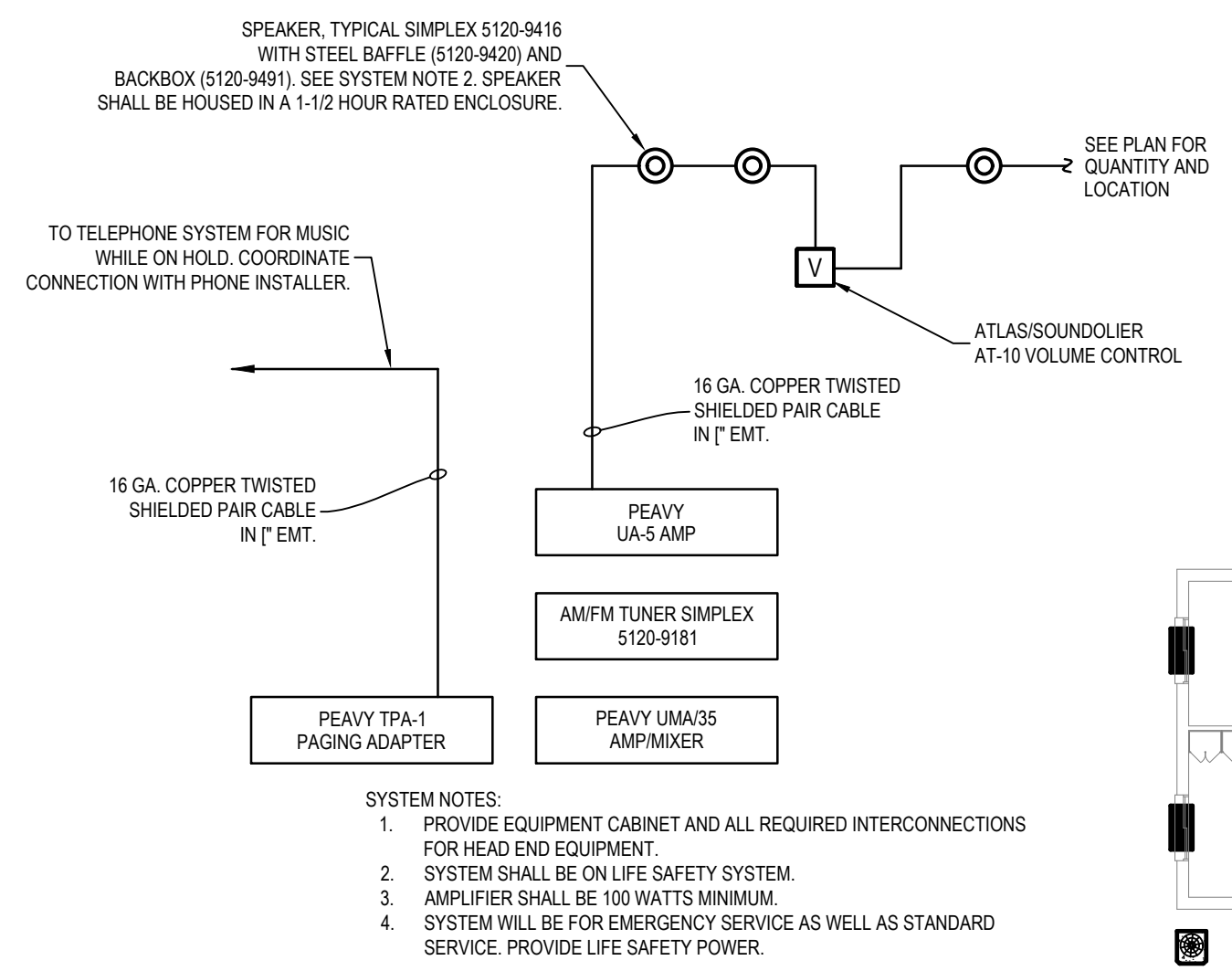
A Nurse Call & Door Security Plan
 E15 SCALE: 1/16" = 1' - 0"

symbol	date	description	by
REVISIONS			



PAGING LEGEND	
SYMBOL	DESCRIPTION
—	PA SYSTEM WIRING
⊙	PAGING SPEAKER ASSEMBLY - RECESSED
⊞	VOLUME CONTROL
⊠	AMPLIFIER

- PAGING SYSTEM NOTES:
- COORDINATE SPEAKER LOCATIONS WITH FIRE ALARM LAY-OUT. SMOKE DETECTOR SPACING SHALL TAKE PRECEDENCE OVER SPEAKER LOCATION
 - ALL SPEAKER SHALL BE 8" DIAMETER AND RECESSED.
 - PROVIDE CAP OVER SPEAKERS TO PRESERVE THE FIRE RATING OF THE CEILING



- SYSTEM NOTES:
- PROVIDE EQUIPMENT CABINET AND ALL REQUIRED INTERCONNECTIONS FOR HEAD END EQUIPMENT
 - SYSTEM SHALL BE ON LIFE SAFETY SYSTEM
 - AMPLIFIER SHALL BE 100 WATTS MINIMUM
 - SYSTEM WILL BE FOR EMERGENCY SERVICE AS WELL AS STANDARD SERVICE. PROVIDE LIFE SAFETY POWER

B P/A System Riser
 E16 SCALE: NTS

A Public Address System Plan
 E16 SCALE: 1/16" = 1'-0"

symbol	date	description	by
REVISIONS			

PANEL - A		TYPE	BOLT-ON	MOUNTING	FLUSH	ENCLOSURE	NEMA-1	PHASE	3	WIRE	4		
		VOLTS	120/208	MAIN	400A MLO	FRAME	400A	SHORT CIR.RATING	22,000	RMS	SYM	MIN	
CKT. NO.	CKT. TRIP	DESCRIPTION	PHASE			LOADING	PHASE			DESCRIPTION	CKT. TRIP	CKT. NO.	
			A	B	C		A	B	C				
1	50/2	HP-1									20/1	2	
3					28						20/1	4	
5	90/2	AHU-1			70						20/1	6	
7											20/1	8	
9	25/2	HP-3			16						20/1	10	
11					16						20/1	12	
13	40/2	AHU-3			30						20/1	14	
15					30						20/1	16	
17	20/2	HP-2			15						20/1	18	
19					15						20/1	20	
21	30/2	AHU-2			21						20/1	22	
23					21						20/1	24	
25	20/2	HP-8			15						20/1	26	
27					15						20/1	28	
29	30/2	AHU-8			21						20/1	30	
31					21						40/2	32	
33	25/2	HP-4			16						40/2	34	
35					16						20/1	36	
37	20/1	RECP - CHAPEL 85			12						150/3	38	
39	40/2	AHU-4			30						20/1	40	
41					30						20/1	42	
SUBTOTAL				191	156	189							
NOTES:				TOTAL PANEL LOAD: A# 336A B# 329A C# 355A						NEUTRAL TERMINAL BAR <input checked="" type="checkbox"/>		GROUND TERMINAL BAR <input checked="" type="checkbox"/>	

PANEL - AA		TYPE	BOLT-ON	MOUNTING	FLUSH	ENCLOSURE	NEMA-1	PHASE	3	WIRE	4		
		VOLTS	120/208	MAIN	150A MLO	FRAME	225A	SHORT CIR.RATING	10,000	RMS	SYM	MIN	
CKT. NO.	CKT. TRIP	DESCRIPTION	PHASE			LOADING	PHASE			DESCRIPTION	CKT. TRIP	CKT. NO.	
			A	B	C		A	B	C				
1	20/1	EW									20/1	2	
3	25/2	HP-28			16						10	4	
5					16						20/1	6	
7	20/1	LTS - ACT 57			6						8	8	
9	20/1	SPARE									10	10	
11	20/1	RECP - DON 32			12						30	12	
13	20/1	RECP - JANITOR 34			8						30	14	
15	20/1	LTS - LOBBY 1A			8						6	16	
17	15/2	DOAS-1			9						4	18	
19					9						10	20	
21	15/2	DOAS-2			9						10	22	
23					9						10	24	
25	20/1	SPARE									10	26	
27	20/1	ENTRY SIGN			10						10	28	
29	20/1	RECP			8							30	
31												32	
33												34	
35												36	
37												38	
39												40	
41												42	
SUBTOTAL				29	43	54					68	46	50
NOTES:				TOTAL PANEL LOAD: A# 97A B# 89A C# 104A						NEUTRAL TERMINAL BAR <input checked="" type="checkbox"/>		GROUND TERMINAL BAR <input checked="" type="checkbox"/>	

PANEL - B		TYPE	BOLT-ON	MOUNTING	FLUSH	ENCLOSURE	NEMA-1	PHASE	3	WIRE	4		
		VOLTS	120/208	MAIN	300A MLO	FRAME	400A	SHORT CIR.RATING	22,000	RMS	SYM	MIN	
CKT. NO.	CKT. TRIP	DESCRIPTION	PHASE			LOADING	PHASE			DESCRIPTION	CKT. TRIP	CKT. NO.	
			A	B	C		A	B	C				
1	20/2	HP-9									14	2	
3					13							4	
5	30/2	AHU-9			19						6	6	
7					19						24	8	
9	40/2	HP-10			24						10	10	
11					24							12	
13	60/2	AHU-10			45						6	14	
15					45						6	16	
17	20/2	HP-11			15						4	18	
19					15						6	20	
21	30/2	AHU-11			21						6	22	
23					21						10	24	
25	20/1	FIREPLACE 84			6						10	26	
27	20/1	ACTIVITY ROOM 57			10						10	28	
29	20/1	RECP - NS 60			12						10	30	
31	20/1	RECP - IT 64			8							32	
33	20/1	RECP - WHCHR. 83			12							34	
35												36	
37	20/1	RECP - LA. 77			12						74	38	
39	20/1	RECP - CORR 829			10						85	40	
41	20/1	LTS - STOR 78			2						109	42	
SUBTOTAL				118	135	99					116	117	141
NOTES:		(1) ARC FAULT BREAKER.		TOTAL PANEL LOAD: A# 234A B# 252A C# 240A						NEUTRAL TERMINAL BAR <input checked="" type="checkbox"/>		GROUND TERMINAL BAR <input checked="" type="checkbox"/>	

PANEL - BB		TYPE	BOLT-ON	MOUNTING	FLUSH	ENCLOSURE	NEMA-1	PHASE	3	WIRE	4		
		VOLTS	120/208	MAIN	150A MLO	FRAME	225A	SHORT CIR.RATING	10,000	RMS	SYM	MIN	
CKT. NO.	CKT. TRIP	DESCRIPTION	PHASE			LOADING	PHASE			DESCRIPTION	CKT. TRIP	CKT. NO.	
			A	B	C		A	B	C				
1	20/1	RR - 806			10						10	2	
3	20/1	RR - 808			10						10	4	
5	20/1	RR - 804			10						10	6	
7	20/1	RR - 802			10							8	
9	20/1	RR - 801			10							10	
11	20/1	RR - 803			10						24	12	
13	20/1	RR - 805			10							14	
15	20/1	RR - 807			10							16	
17	20/1	RR - 809			10							18	
19	20/1	RR - 811			10							20	
21	60/3	AHU-29			45							22	
23					45							24	
25												26	
27												28	
29												30	
31												32	
33												34	
35												36	
37												38	
39												40	
41												42	
SUBTOTAL				40	75	75					34	10	34
NOTES:		(1) ARC FAULT BREAKER.		TOTAL PANEL LOAD: A# 74A B# 85A C# 109A						NEUTRAL TERMINAL BAR <input checked="" type="checkbox"/>		GROUND TERMINAL BAR <input checked="" type="checkbox"/>	

PANEL - C		TYPE	BOLT-ON	MOUNTING	FLUSH	ENCLOSURE	NEMA-1	PHASE	3	WIRE	4		
		VOLTS	120/208	MAIN	300A MLO	FRAME	400A	SHORT CIR.RATING	22,000	RMS	SYM	MIN	
CKT. NO.	CKT. TRIP	DESCRIPTION	PHASE			LOADING	PHASE			DESCRIPTION	CKT. TRIP	CKT. NO.	
			A	B	C		A	B	C				
1	45/2	HP-5			25						8	2	
3					25						10	4	
5	60/2	AHU-5			45						6	6	
7					45						6	8	
9	15/2	HP-6			9						12	10	
11					9						2	12	
13	15/2	AHU-6			3							14	
15					3							16	
17	15/2	HP-7			9						8	18	
19					9						8	20	
21	15/2	AHU-7			3						2	22	
23					3						6	24	
25	20/1	RR - 102			10						10	26	
27	20/1	RR - 104			10						10	28	
29	20/1	RR - 106			10						10	30	
31	20/1	RR - 108			10							32	
33	20/1	RR - 110			10							34	
35	20/1	RR - 101			10							36	
37	20/1	RR - 103			10						46	38	
39	20/1	RR - 105			10						95	40	
41	20/1	RR - 107			10						67	42	
SUBTOTAL				112	70	96					78	129	103
NOTES													

PANEL-K

TYPE BOLT-ON MOUNTING FLUSH ENCLOSURE NEMA-1 PHASE 3 WIRE 4

VOLTS 120/208 MAIN 150A MLO FRAME 225A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE LOADING			LOADING PHASE			CKT. BRK. TRIP	CKT. NO.
			A	B	C	A	B	C		
(1) 1	20/1	RR - 601	10						20/1	2
(1) 3	20/1	RR - 603		10					20/1	4
(1) 5	20/1	RR - 605			10				20/1	6
(1) 7	20/1	RR - 607	10						20/1	8
(1) 9	20/1	RR - 609		10					20/1	10
(1) 11	30/2	RR - 610			10				20/1	12
(1) 13	20/1	RR - 608	10						20/1	14
(1) 15	20/1	RR - 606		10					20/1	16
(1) 17	20/1	RR - 604			10				20/1	18
(1) 19	20/1	RR - 602	10						20/1	20
(1) 21	20/1	RR - 702		10					20/1	22
(1) 23	20/1	RR - 704			10				20/1	24
(1) 25	20/1	RR - 706	10						20/1	26
(1) 27	20/1	RR - 708		10					20/1	28
(1) 29	20/1	RR - 707			10				20/1	30
(1) 31	20/1	RR - 705	10						20/1	32
(1) 33	20/1	RR - 703		10					20/1	34
(1) 35	20/1	RR - 701			10				20/1	36
37									20/1	38
39									20/1	40
41									20/1	42
SUBTOTAL			60	60	60	24	22	22		

NOTES: (1) ARC FAULT BREAKER. NEUTRAL TERMINAL BAR GROUND TERMINAL BAR

PANEL-K

TYPE BOLT-ON MOUNTING FLUSH ENCLOSURE NEMA-1 PHASE 3 WIRE 4

VOLTS 120/208 MAIN 225A MLO FRAME 225A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE LOADING			LOADING PHASE			CKT. BRK. TRIP	CKT. NO.
			A	B	C	A	B	C		
1	20/1	MIXER (9)							20/1	2
3	20/1	SLICER (11)						53	20/1	4
5	20/1	TOASTER (21)						80	20/1	6
7								80	20/1	8
9	20/1	FOOD DISPOSAL (23)						80	20/1	10
11								5	20/1	12
13									20/1	14
15	20/1	RECPT							20/1	16
17	20/1	DISH DISPENSER (25)							20/1	18
19	20/1	TEA URN (27)	12						20/1	20
21	20/1	TEA URN (27)							20/1	22
23	30/2	COFFEE (28)							20/1	24
25									20/1	26
27	20/1	HEATED BASE (29)							20/1	28
29	20/1	BLIXER (47)							20/1	30
31									20/1	32
33									20/1	34
35									20/1	36
37									20/1	38
39									20/1	40
41									20/1	42
SUBTOTAL			42	48	50	138	133	133		

NOTES: NEUTRAL TERMINAL BAR GROUND TERMINAL BAR

PANEL-SLS

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA-3R PHASE 3 WIRE 4

VOLTS 120/208 MAIN 125A MCB FRAME 125A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE LOADING			LOADING PHASE			CKT. BRK. TRIP	CKT. NO.
			A	B	C	A	B	C		
1	20/1	RECPT	2						20/1	2
3	20/1	SPARE						64	20/1	4
5	20/1	SPARE						64	20/1	6
7		BLANK							20/1	8
9		BLANK							20/1	10
11		BLANK							20/1	12
13		BLANK							20/1	14
15		BLANK							20/1	16
17		BLANK							20/1	18
19		BLANK							20/1	20
21		BLANK							20/1	22
23									20/1	24
25									20/1	26
27									20/1	28
29									20/1	30
31									20/1	32
33									20/1	34
35									20/1	36
37									20/1	38
39									20/1	40
41									20/1	42
SUBTOTAL			2	0	0	64	64	64		

NOTES: NEUTRAL TERMINAL BAR GROUND TERMINAL BAR

PANEL-S

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA-1 PHASE 3 WIRE 4

VOLTS 120/208 MAIN 100A MLO FRAME 100A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE LOADING			LOADING PHASE			CKT. BRK. TRIP	CKT. NO.
			A	B	C	A	B	C		
1	20/2	PTAC - STORAGE	14						20/1	2
3	20/2	PTAC - STORAGE		14					20/1	4
5	20/2	PTAC - STORAGE			14				20/1	6
7		LTS - STORAGE	14						20/1	8
9	20/2	PTAC - STORAGE		14					20/1	10
11		SPARE							20/1	12
13	20/1	SPARE							20/1	14
15	20/1	SPARE							20/1	16
17	20/1	SPARE							20/1	18
19	20/1	SPARE							20/1	20
21									20/1	22
23									20/1	24
25									20/1	26
27									20/1	28
29									20/1	30
31									20/1	32
33									20/1	34
35									20/1	36
37									20/1	38
39									20/1	40
41									20/1	42
SUBTOTAL			28	28	28	8	4	6		

NOTES: NEUTRAL TERMINAL BAR GROUND TERMINAL BAR

PANEL-EM

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA-1 PHASE 3 WIRE 4

VOLTS 120/208 MAIN 125A MLO FRAME 225A SHORT CIR.RATING 22,000 RMS SYM MIN

CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE LOADING			LOADING PHASE			CKT. BRK. TRIP	CKT. NO.
			A	B	C	A	B	C		
1	20/1	RECPT - EM ROOM 48	2						20/1	2
3	20/1	LTS - EM ROOM 48		1					20/1	4
5	20/2	BLOCK HTR			12				20/1	6
7									20/1	8
9	20/2	HTR	12						20/1	10
11									20/1	12
13	20/1	GEN BATTERY							20/1	14
15	20/1	GEN LTS	6	2					20/1	16
17	20/1	GEN CONTROLS			2				20/1	18
19	20/1	RECPT GEN	2						20/1	20
21	20/1	POLE LIGHT		1					20/1	22
23	20/1	SPARE							20/1	24
25	20/1	SPARE							20/1	26
27									20/1	28
29									20/1	30
31									20/1	32
33									20/1	34
35									20/1	36
37									20/1	38
39									20/1	40
41									20/1	42
SUBTOTAL			22	14	24	44	28	24		

NOTES: (1) VERIFY kW & VOLTAGE. NEUTRAL TERMINAL BAR GROUND TERMINAL BAR
(2) FIRE ALARM BATTERY BACKUP. PROVIDE LOCK-OUT BREAKER & PAINT RED.

PANEL-EMA

TYPE BOLT-ON MOUNTING SURFACE ENCLOSURE NEMA-1 PHASE 3 WIRE 4

VOLTS 120/208 MAIN 60A MLO FRAME 100A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE LOADING			LOADING PHASE			CKT. BRK. TRIP	CKT. NO.
			A	B	C	A	B	C		
1	15/1	FACP	2						20/1	2
3	15/1	F.A. BATTERY		2					20/1	4
5	15/1	F.A. BATTERY			2				20/1	6
7									20/1	8
9									20/1	10
11									20/1	12
13									20/1	14
15									20/1	16
17									20/1	18
19									20/1	20
21									20/1	22
23									20/1	24
25									20/1	26
27									20/1	28
29									20/1	30
31									20/1	32
33									20/1	34
35									20/1	36
37										

PANEL-EC		TYPE		MOUNTING		SURFACE		ENCLOSURE		NEMA-1		PHASE		WIRE		
VOLTS		120/208		MAIN		800A MLO		FRAME		800A		SHORT CIR.RATING		65,000 RMS SYM MIN		
OCT. NO.	OCT. BKR. TRIP	DESCRIPTION	PHASE			LOADING			PHASE			DESCRIPTION	OCT. BKR. TRIP	OCT. NO.		
			A	B	C	A	B	C	A	B	C					
1	100/3	PANEL ECA	4			6.3									100/3	2
3				52												4
5					50											6
7	150/3	PANEL ECB	84			76			60						100/3	8
9				82												10
11					70											12
13	200/3	PANEL ECC	116			99			84						150/3	14
15				118												16
17					116											18
19	150/3	PANEL ECD	99			69			80						100/3	20
21				102												22
23					86											24
25	60/3	PANEL ECE	31													26
27				32												28
29					50											30
31																32
33																34
35																36
37																38
39																40
41																42
SUBTOTAL			372	386	372		307	256	258							42
NOTES:		TOTAL PANEL LOAD: A# 679A B# 642A C# 630A NEUTRAL TERMINAL BAR [X] GROUND TERMINAL BAR [X]														

PANEL-ECA		TYPE		MOUNTING		FLUSH		ENCLOSURE		NEMA-1		PHASE		WIRE		
VOLTS		120/208		MAIN		100A MLO		FRAME		100A		SHORT CIR.RATING		10,000 RMS SYM MIN		
OCT. NO.	OCT. BKR. TRIP	DESCRIPTION	PHASE			LOADING			PHASE			DESCRIPTION	OCT. BKR. TRIP	OCT. NO.		
			A	B	C	A	B	C	A	B	C					
1	20/1	RECP - COPY 11														2
3	20/1	SPARE														4
5	20/1	RECP - OFFICE 38A														6
7	20/1	RECP - OFFICE 8														8
9	20/1	RECP - REFRIGERATOR														10
11	20/1	SPARE														12
13	20/1	SPARE														14
15	20/1	SPARE														16
17	20/1	RECP - MED 36														18
19	20/1	RECP - MED PREP 36														20
21	20/1	RECP - MED 36														22
23	20/1	RECP - NS 35														24
25	20/1	SPARE														26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
SUBTOTAL			20	16	22		22	36	28							42
NOTES:		TOTAL PANEL LOAD: A# 42A B# 52A C# 50A NEUTRAL TERMINAL BAR [X] GROUND TERMINAL BAR [X]														

PANEL-ECB		TYPE		MOUNTING		FLUSH		ENCLOSURE		NEMA-1		PHASE		WIRE		
VOLTS		120/208		MAIN		150A MLO		FRAME		225A		SHORT CIR.RATING		10,000 RMS SYM MIN		
OCT. NO.	OCT. BKR. TRIP	DESCRIPTION	PHASE			LOADING			PHASE			DESCRIPTION	OCT. BKR. TRIP	OCT. NO.		
			A	B	C	A	B	C	A	B	C					
1	20/1	RECP - ACTIVITY 58														2
3	20/1	RECP - MED PREP 59														4
5	20/1	RECP - MED PREP 59														6
7	20/1	RECP - MED PREP 59														8
9	20/1	RECP - MED PREP 59														10
11	20/1	NC														12
13	20/1	RECP - NS 60														14
15	20/1	RECP - NS 60														16
17	20/1	RECP - IT 64														18
19	20/1	RECP - MED PREP 59														20
21	20/1	LTS - NS 60														22
23	20/1	LTS - ATTIC														24
25	20/1	CB - 802														26
27	20/1	CB - 804														28
29	20/1	CB - 806														30
31	20/1	CB - 808														32
33	20/1	CB - 801														34
35	20/1	CB - 803														36
37	20/1	CB - 810														38
39	20/1	CB - 810														40
41	20/1	CB - 812														42
SUBTOTAL			34	36	32		50	46	38							42
NOTES:		TOTAL PANEL LOAD: A# 84A B# 82A C# 70A NEUTRAL TERMINAL BAR [X] GROUND TERMINAL BAR [X]														

PANEL-ECBB		TYPE		MOUNTING		FLUSH		ENCLOSURE		NEMA-1		PHASE		WIRE		
VOLTS		120/208		MAIN		60A MLO		FRAME		100A		SHORT CIR.RATING		10,000 RMS SYM MIN		
OCT. NO.	OCT. BKR. TRIP	DESCRIPTION	PHASE			LOADING			PHASE			DESCRIPTION	OCT. BKR. TRIP	OCT. NO.		
			A	B	C	A	B	C	A	B	C					
1	20/1	CR - 801,3														2
3	20/1	CR - 805,7														4
5	20/1	CR - 809,811														6
7	20/1	FSD														8
9																10
11																12
13																14
15																16
17																18
19																20
21																22
23																24
25																26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
SUBTOTAL			12	10	10		10	8	8							42
NOTES:		TOTAL PANEL LOAD: A# 22A B# 18A C# 18A NEUTRAL TERMINAL BAR [X] GROUND TERMINAL BAR [X]														

PANEL-ECC		TYPE		MOUNTING		FLUSH		ENCLOSURE		NEMA-1		PHASE		WIRE		
VOLTS		120/208		MAIN		200A MLO		FRAME		225A		SHORT CIR.RATING		10,000 RMS SYM MIN		
OCT. NO.	OCT. BKR. TRIP	DESCRIPTION	PHASE			LOADING			PHASE			DESCRIPTION	OCT. BKR. TRIP	OCT. NO.		
			A	B	C	A	B	C	A	B	C					
1	20/1	RECP - IT 31														2
3	20/1	RECP - IT 31														4
5	20/1	QUAD - DIALYSIS 18														6
7	20/1	QUAD - DIALYSIS 18														8
9	20/1	QUAD - DIALYSIS 18														10
11	20/1	QUAD - DIALYSIS 18														12
13	20/1	QUAD - DIALYSIS 18														14
15	20/1	QUAD - DIALYSIS 18														16
17	20/1	RECP - DIALYSIS 18														18
19	20/1	RECP - DIALYSIS 18														20
21	20/1	RECP - DIALYSIS 18														22
23	20/1	SPARE														24
25	20/1	SPARE														26
27	20/1	SPARE														28
29	20/1	SPRINKLER														30
31	20/1	LTS														32
33	20/1	LTS														34
35	20/1	LTS														36
37	20/1	CB - 102														38
39	20/1	CB - 104														40
41	20/1	CB - 106														42
SUBTOTAL			44	44	44		72	74	72							42
NOTES:		TOTAL PANEL LOAD: A# 116A B# 118A C# 116A NEUTRAL TERMINAL BAR [X] GROUND TERMINAL BAR [X]														

PANEL-ECCC		TYPE		MOUNTING		FLUSH		ENCLOSURE		NEMA-1		PHASE		WIRE	
VOLTS		120/208		MAIN		100A MLO		FRAME		100A		SHORT			

PANEL-MDP																	
TYPE		BOLT-ON		MOUNTING SURFACE		ENCLOSURE		NEMA-1		PHASE 3		WIRE 4					
VOLTS		120/208		MAIN		5000A MLO		FRAME		5000A		SHORT CIR.RATING 65,000 RMS SYM MIN					
CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE			LOADING			DESCRIPTION	CKT. BRK. TRIP	CKT. NO.	LOADING					
			A	B	C	A	B	C				A	B	C			
1	2000/3	PANEL EH	1580	1665	1506	66	42	48	PANEL EM	125/3	7	84	82	82	PANEL I	150/3	13
2	800/3	PANEL EC	679	642	630	190	199	199	PANEL C	300/3	8	180	181	183	PANEL K	225/3	14
3	400/3	PANEL A	336	329	355	168	138	142	PANEL D	225/3	9	36	32	34	PANEL S	100/3	15
4	400/3	PANEL H	322	284	318	165	148	139	PANEL E	225/3	10						16
5	300/3	PANEL B	234	252	240	206	163	173	PANEL F	225/3	11						17
6	1200/3	SUB PANEL	1203	1188	1177	108	203	177	PANEL G	300/3	12						18
SUBTOTAL										SUBTOTAL				SUBTOTAL			

NOTES:
 TOTAL PANEL LOAD: A# 4374A B# 4360A C# 4226A
 DERATING: A# 261A B# 261A C# 261A
 DERATED LOAD: A# 4113A B# 4099A C# 3965A

PANEL-GEN																	
TYPE		BOLT-ON		MOUNTING SURFACE		ENCLOSURE		NEMA-3R		PHASE 3		WIRE 4					
VOLTS		120/208		MAIN		3000A MLO		FRAME		3000A		SHORT CIR.RATING 65,000 RMS SYM MIN					
CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE			LOADING			DESCRIPTION	CKT. BRK. TRIP	CKT. NO.	LOADING					
			A	B	C	A	B	C				A	B	C			
1	2000/3	PANEL EH	1580	1665	1506	66	42	48	PANEL EC	800/3	2	679	642	630			
3	125/3	PANEL EM	66	42	48												4
SUBTOTAL										SUBTOTAL				SUBTOTAL			

NOTES: (1) 100% RATED.

GENERATOR LOAD			
LOAD	A#	B#	C#
LIFE SAFETY	66	42	48
CRITICAL	679	642	630
HEAT & EQ.	1580	1665	1506
TOTAL DEMAND	2325	2349	2184
INRUSH 15% ±	326	326	326
TOTAL LOAD WITH INRUSH	2651	2675	2510

USE 800 KW GENERATOR
 PROVIDE A FULL LOAD CAPACITY OF 2775 AMPS PER PHASE
 GENERATOR MANUFACTURER TO BE KOHLER OR EQUAL.

WIRE SIZE LEGEND

- 11-SETS 4-750 IN 4" C
- 8-SETS 4-500, 1#400G IN 4" C
- 6-SETS 4-500, 1#250G IN 3 1/2" C
- 2-SETS 4-500, 1-1/0G IN 3 1/2" C
- 4-500, 1#3G IN 3 1/2" C
- 4-350, 1#4G IN 3" C
- 4-4/0, 1#4G IN 2 1/2" C
- 4-3/0, 1#6G IN 2" C
- 4-1/0, 1#6G IN 2" C
- 4#1, 1#6G IN 1 1/2" C
- 4#2, 1#6G IN 1 1/2" C
- 4#3, 1#6G IN 1 1/2" C
- 4#6, 1#6G IN 1" C
- 3#2, 1#6G IN 1 1/2" C

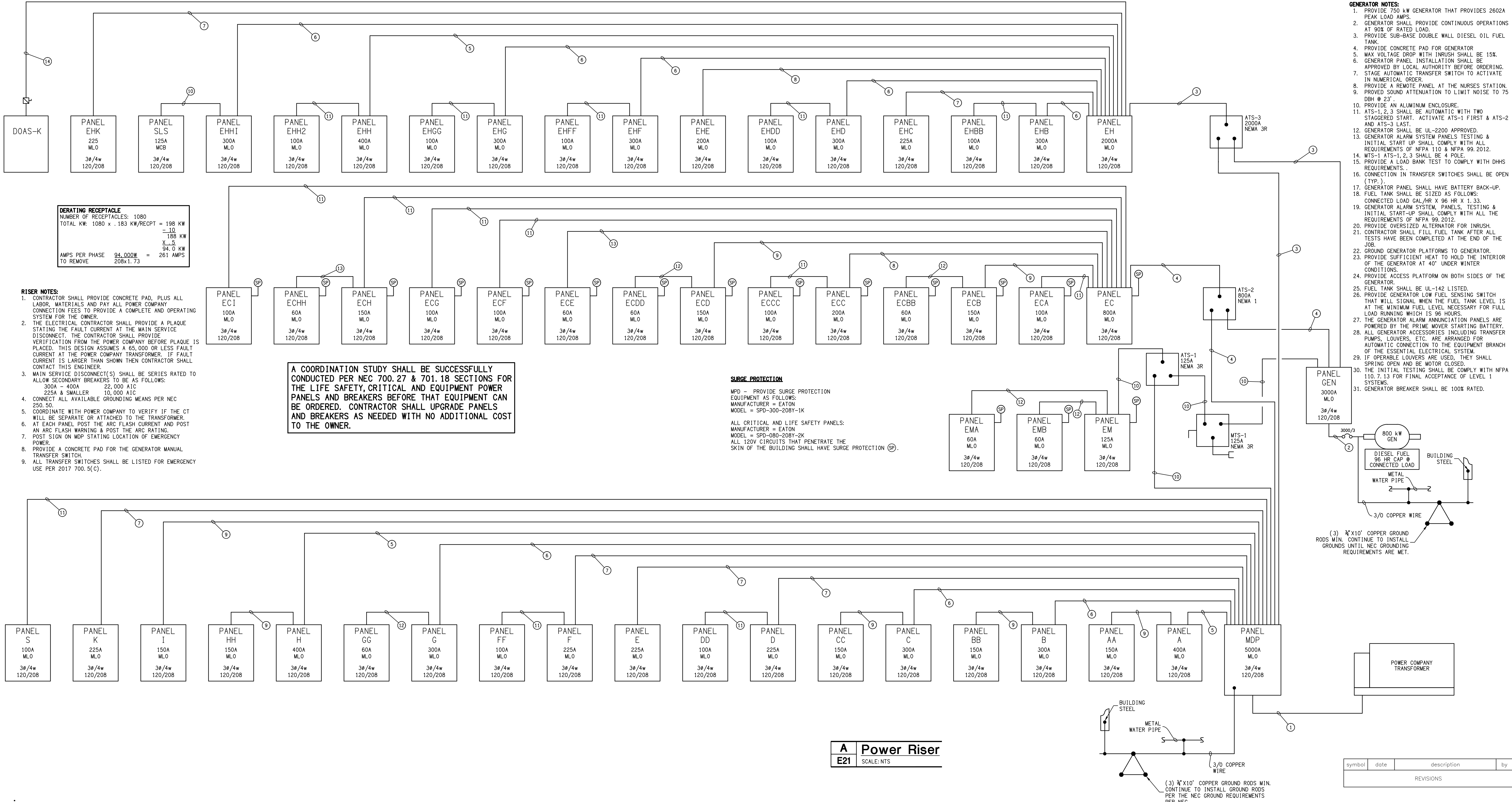
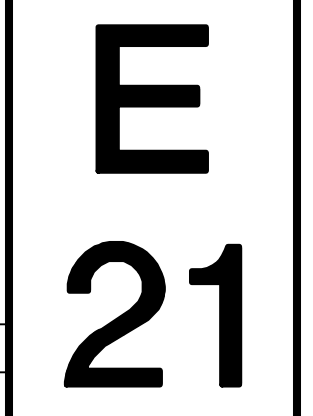
DSA ENGINEERING
 101 N. THIRD ST., SUITE 403
 WILMINGTON, NC 28401
 910.791.8016
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HEARTLAND LIVING AND REHABILITATION
 Greensboro, North Carolina

David R. Polston - Architect
 3806 Park Ave., Suite C, Wilmington, NC 28403
 Architecture Planning Design

125 BED FACILITY



DERATING RECEIPTABLE
 NUMBER OF RECEPTACLES: 1080
 TOTAL KW: 1080 x .183 KW/RECEPT = 198 KW
 = 188 KW
 X .5
 94.0 KW
 AMPS PER PHASE: 94,000W / 208V = 261 AMPS TO REMOVE

- RISER NOTES:**
- CONTRACTOR SHALL PROVIDE CONCRETE PAD, PLUS ALL LABOR, MATERIALS AND PAY ALL POWER COMPANY CONNECTION FEES TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE OWNER.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE A PLAQUE STATING THE FAULT CURRENT AT THE MAIN SERVICE DISCONNECT. THE CONTRACTOR SHALL PROVIDE VERIFICATION FROM THE POWER COMPANY BEFORE PLAQUE IS PLACED. THIS DESIGN ASSUMES A 65,000 OR LESS FAULT CURRENT AT THE POWER COMPANY TRANSFORMER. IF FAULT CURRENT IS LARGER THAN SHOWN THEN CONTRACTOR SHALL CONTACT THIS ENGINEER.
 - MAIN SERVICE DISCONNECT(S) SHALL BE SERIES RATED TO ALLOW SECONDARY BREAKERS TO BE AS FOLLOWS:
 300A - 400A 22,000 AIC
 225A & SMALLER 10,000 AIC
 - CONNECT ALL AVAILABLE GROUNDING MEANS PER NEC 250.50.
 - COORDINATE WITH POWER COMPANY TO VERIFY IF THE CT WILL BE SEPARATE OR ATTACHED TO THE TRANSFORMER.
 - AT EACH PANEL POST THE ARC FLASH CURRENT AND POST AN ARC FLASH WARNING & POST THE ARC RATING.
 - POST SIGN ON MDP STATING LOCATION OF EMERGENCY POWER.
 - PROVIDE A CONCRETE PAD FOR THE GENERATOR MANUAL TRANSFER SWITCH.
 - ALL TRANSFER SWITCHES SHALL BE LISTED FOR EMERGENCY USE PER 2017 700.5(C).

A COORDINATION STUDY SHALL BE SUCCESSFULLY CONDUCTED PER NEC 700.27 & 701.18 SECTIONS FOR THE LIFE SAFETY, CRITICAL AND EQUIPMENT POWER PANELS AND BREAKERS BEFORE THAT EQUIPMENT CAN BE ORDERED. CONTRACTOR SHALL UPGRADE PANELS AND BREAKERS AS NEEDED WITH NO ADDITIONAL COST TO THE OWNER.

SURGE PROTECTION
 SPD - PROVIDE SURGE PROTECTION EQUIPMENT AS FOLLOWS:
 MANUFACTURER = EATON
 MODEL = SPD-300-208Y-1K
 ALL CRITICAL AND LIFE SAFETY PANELS:
 MANUFACTURER = EATON
 MODEL = SPD-080-208Y-2K
 ALL 120V CIRCUITS THAT PENETRATE THE SKIN OF THE BUILDING SHALL HAVE SURGE PROTECTION (SP).

(3) 3/4" X 10' COPPER GROUND RODS MIN. CONTINUE TO INSTALL GROUNDING REQUIREMENTS ARE MET.

A Power Riser
 E21 SCALE: NTS

symbol	date	description	by
REVISIONS			