

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 U.L. 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 SHALL 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 120 & 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 REPT. 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.

SYMBOL	DESCRIPTION	LAMP					MFG.	MODEL	MOUNTING	REMARKS	
		NO	WATT	TYPE	COLOR TEMP	LUMENS					VOLT
A	4' WRAP	-	62	LED	4000K	7336	120	LITHONIA	LBL4 7200LM 80CRI 40K MINI 21 MVOLT	CEILING SURFACE	-
A1	4' WRAP	-	41	LED	4000K	4874	120	LITHONIA	LBL4 4800LM 80CRI 40K MINI 21 MVOLT	CEILING SURFACE	-
A2	4' WRAP	-	26	LED	4000K	3288	120	LITHONIA	LBL4 3000LM 80CRI 40K MINI 21 MVOLT	CEILING SURFACE	-
B	4' STRIP	-	49	LED	4000K	7724	120	LITHONIA	CLX L48 7000LM SEF MVOLT E21 40K 80CRI	CEILING SURFACE	-
B1	4' STRIP	-	28	LED	4000K	4262	120	LITHONIA	CLX L48 4000LM SEF MVOLT E21 40K 80CRI	CEILING SURFACE	-
C	6" RECESSED DOWNLIGHT	-	44	LED	4000K	3978	120	LITHONIA	LDN6 40/40 L06AR LSS MVOLT E210	RECESSED	-
C2	4" RECESSED DOWNLIGHT	-	20	LED	4000K	1444	120	LITHONIA	LDN4 40/15 L04AR LSS MVOLT E210	RECESSED	UL DAMP LOCATION
E	COVE LIGHT	-	4/FT	LED	4000K	350/FT	120	JESCO	DL-FLEX2	COVE	PROVIDE CHANNEL W/ LENS & ALL REQ'D ACCESSORIES & TRANSFORMERS.
F	3' UNDER CABINET	-	21	LED	3000K	1527	120	PROGRESS LIGHTING	P700004-028-30	UNDER CABINET	-
F1	2' UNDER CABINET	-	15	LED	3000K	1054	120	PROGRESS LIGHTING	P700003-028-30	UNDER CABINET	-
G	HAZARDOUS LOCATION	-	100	LED	4000K	10000	120	LUMEFFICIENT	LZL0200-A0-4-70-90-V1-0-5	CEILING SURFACE	EXPLOSION PROOF
NL	NIGHT LIGHT	-	2	LED	AMBER	-	120	HEALTHCARE LIGHTING	HNL610 MVOLT LEDAMB FW	WALL RECESSED	-
H	6" RECESSED DOWNLIGHT	-	35	LED	4000K	3021	120	LITHONIA	LDN6 40/30 L06AR LSS MVOLT E210	RECESSED	U.L. DAMP LOCATION
I	SHOWER LIGHT	-	14	LED	4000K	1000	120	LIGHTOLIER	S7R840K10	CEILING SURFACE	U.L. WET LOCATION
K	CAN WASH	1	11	LED	4000K	1432	120	CURRENT	PVNR-13-10-40K8-UNV	CEILING SURFACE	U.L. DAMP LOCATION
L	4' BED LIGHT	-	43	LED	3500K	9491	120	RELIGHT DEPOT	LOB01D DIRECT/INDIRECT OVER-BED LUMINAIRE 36" LENGTH, WHITE FINISH	WALL AT BED	PROVIDE 4-WAY SWITCH.
M	COMMON AREA VANITY LIGHT	2	8	LED	2700K	-	120	SUNPARK LIGHTING	4493D 15.5"X16.0"X8.0	OVER MIRROR	VERIFY STYLE WITH OWNER.
M1	PATIENT ROOM VANITY LIGHT	2	8	LED	3500K	-	120	SAVOY HOUSE	DRAKE 2 LIGHT 17.75"X10" ENGLISH BRONZE	OVER MIRROR	-
N	BATHROOM OVERHEAD	-	22	LED	3000K	1027	120	PROGRESS LIGHTING	P7249 0930K9	CEILING SURFACE	-
P	BEDROOM	-	35	LED	3000K	2940	120	SUNPARK LIGHTING	DC618D 18.5"X5.7"	CEILING SURFACE	-
Q	EXTERIOR WALL MOUNT LIGHT	-	23	LED	4000K	1400	120	BROWNLEE	7704-4-BL-C24-40K	WALL	SEE SHEET E2 FOR MOUNTING HEIGHTS. UL WET LOCATION
R	ATTIC LIGHT	1	15	A19 LED	2700K	-	120	LEVITON	49875	RAFTER	PROVIDE METAL WIRE GUARD.
S	WALL MOUNT AREA LIGHT	-	44	LED	4000K	4500	120	US ARCH. LIGHTING	RZR-WM1/PLED-111/24LED -700MA-NW/120/RAL9005-T	WALL @ +8'-6" AFF	-
T	4" VAPOR TIGHT	-	35	LED	4000K	3700	120	PHILIPS	V3W35L840-UNV-D1M	CEILING SURFACE	UL WET LOCATION
U	GENERATOR LIGHT POLE	1	70	LED	4000K	-	120	PHILIPS GARDCO	H14L-1-3-70LA NW-120-BRP	14' POLE	-
V	WALL WASHER	1	15	LED	4000K	-	120	PRESCOLITE	LBP6-6LBP-15L40KWH-WW	WALL @ 5'-6" AFF	-
W	FLAGPOLE LIGHT	1	66	LED	4000K	4000	120	EVOLVE	EFC1010433740NAK1DKBZ	PROVIDE CONCRETE BASE	-
⊗	EXIT	-	-	LED	-	-	120	LITHONIA	EXR LED EL M6	WALL OR CEILING	PROVIDE BATTERY BACKUP.
⚡	EMERGENCY	2	3	LED	-	640	120	LITHONIA	ELM4L	WALL @ 7'-6" AFF	PROVIDE BATTERY BACKUP. SEE NOTE 3.
⚡	EMERGENCY WET LOCATION	2	3	LED	-	640	120	LITHONIA	ELM4L WPVS LRG W	WALL @ 7'-6" AFF	PROVIDE BATTERY BACKUP. SEE NOTE 3.
⚡	LIGHT EMERGENCY	5	2	LED	-	-	120	SURE-LITES	AEL-2	OVER DOOR	-
SB	8" SITE BOLLARD WITH CAST LOUVERS	1	42	LED	4000	1400	120	SUN VALLEY LIGHTING	BRAB-LED/CL/36LEDNW/RAL9005-1	BASE SEE C/EL	PROVIDE CONCRETE BASE SEE D/E1

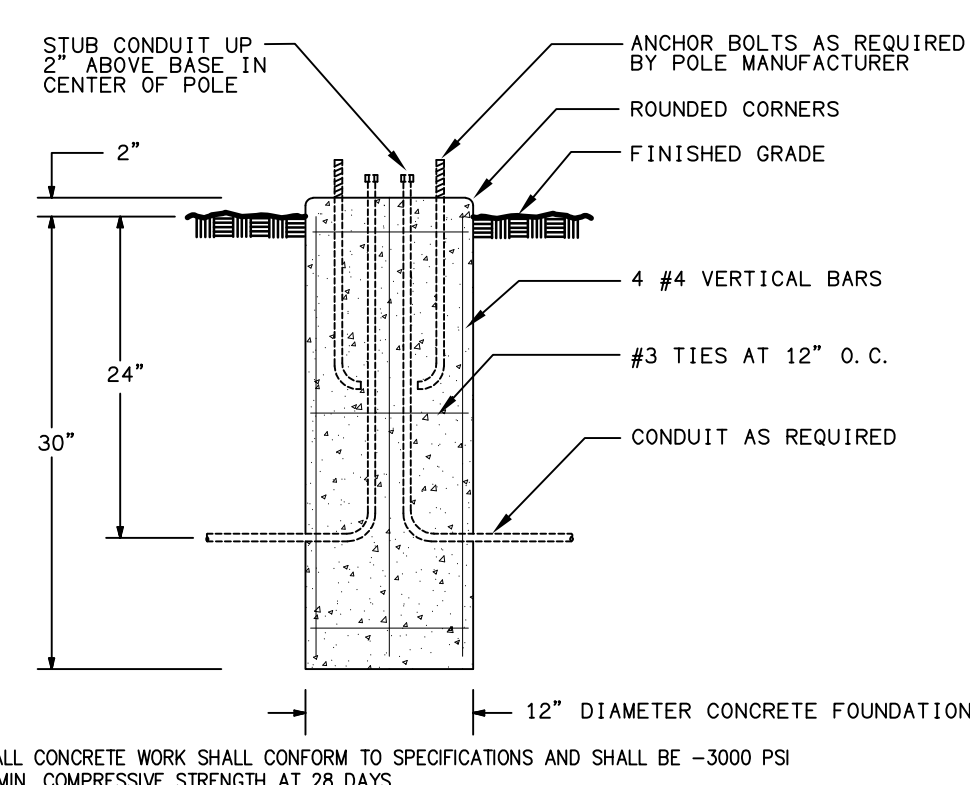
LIGHTING FIXTURE NOTES:

- CONTRACTOR SHALL PROVIDE ALL LAMPS.
- OWNER SHALL REVIEW ALL FIXTURE SELECTIONS BEFORE ORDERING FIXTURES.
- 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.

SYMBOL	DESCRIPTION	LAMP					MFG.	MODEL	MOUNTING	REMARKS	
		NO	WATT	TYPE	COLOR TEMP	LUMENS					VOLT
DA	CHANDELIER	9	9	G124 LED	4000K	-	120	ULTRALIGHTS	15348-SP-0A-08	SUSPEND FROM CEILING	FINISH: SATIN PEWTER BOWL: OPAL ACRYLIC GREEN CREATIVE LAMP
DAA	SCONCE BEAUTY SALON	1	10	LED	3000K	-	120	TECH LIGHTING	700WSCOSYS-LED	WALL	WHITE NICKEL BOWL: WHITE ACRYLIC
DA2	PENDANT	6	11	LED	3500K	-	120	CYAN	PANORAMA CHANDELIER LARGE 20.25"X29.25" NOIR AND AGED BRASS	SUSPEND FROM CEILING	-
DC	CHANDELIER	1	30	LED	4000K	-	120	ULTRALIGHTS	0480-31-SP-0A-04	SUSPEND FROM CEILING	SATIN PEWTER BOWL: OPAL ACRYLIC
DC4	PENDANT	4	11	LED	3500K	-	120	CYAN	PANORAMA CHANDELIER SMALL 16.75"X18" NOIR AND AGED BRASS	SUSPEND FROM CEILING	-
DD	7" CAN	1	12	LED	4000K	1000	120	LIGHTOLIER	S7R-840K10	CEILING SURFACE	7" DIA., WHITE TRIM RING, DIMMABLE
DF	PENDANT	1	9	LED	3500K	800	120	QUORUM	FORT WORTH 1 LIGHT, NOIR AND AGED BRASS	SUSPEND FROM CEILING	SUSPENSION AT 1'-8" LENGTH
DEE	SCONCE	1	10.5	LED	3000K	1218	120	STUDIO COLLECTION	VISUAL COMFORT, VADO, 7.625"X5"	WALL	ANTIQUE BRONZE
DH	EXTERIOR PENDANT	1	14	LED	2700K	-	120	GENERATION	6252701-71 LED	SUSPEND FROM CEILING	ANTIQUE BRONZE ETCHED GLASS
DH1	EXTERIOR PENDANT	1	28	LED	2700K	-	120	GENERATION	6238751-71-LED	SUSPEND FROM CEILING	ANTIQUE BRONZE SATIN ETCHED GLASS

LIGHTING FIXTURE NOTES:

- CONTRACTOR SHALL PROVIDE ALL LAMPS.
- OWNER SHALL APPROVE ALL FIXTURES BEFORE ORDERING.



TYPE SB BOLLARD BASE DETAIL
SCALE: NTS

ELECTRICAL ABBREVIATIONS	
NL	NIGHT LIGHT
AFF	ABOVE FINISHED FLOOR
GF1	GROUND FAULT INTERRUPTING
GF1A	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

PROVIDE A UL APPROVED LIGHTNING PROTECTION SYSTEM FOR THE BUILDING.

RATED WALL LEGEND	
-----	NOT-RATED SMOKE PARTION
----	1 HOUR RATED SMOKE BARRIER
---	1 HOUR RATED FIRE BARRIER
---	2 HOUR RATED FIRE WALL

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.

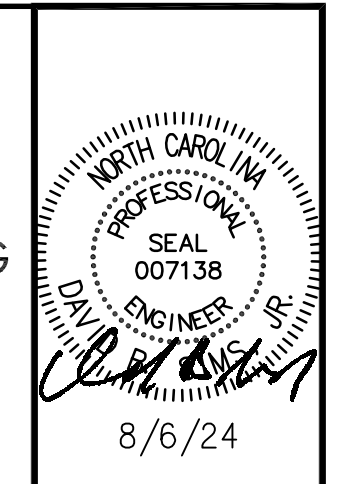
120V 20AMP WIRE SIZE CHART:
FOR 20A - 1# - 120 VOLT SERVICE WIRE SIZE SHALL BE AS FOLLOWS:

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

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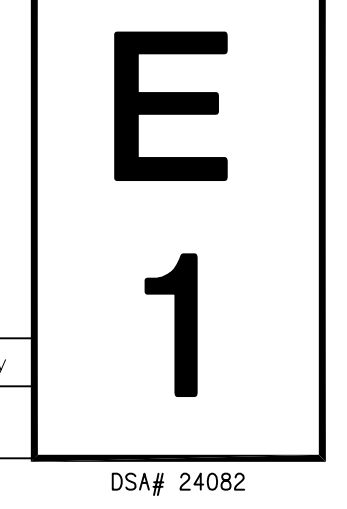
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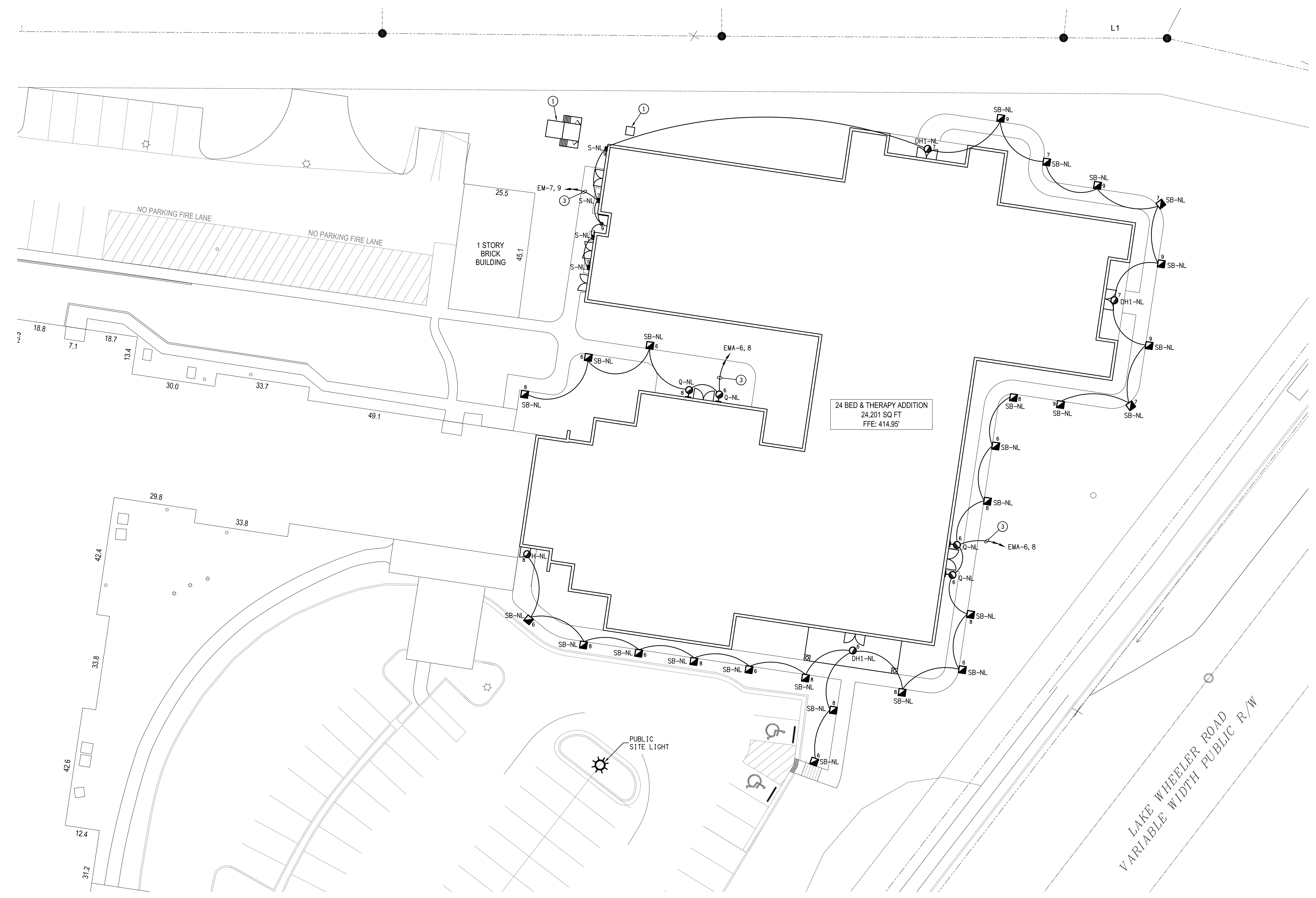
24 BED CONCIERGE / THERAPY ADDITION PHASE ONE



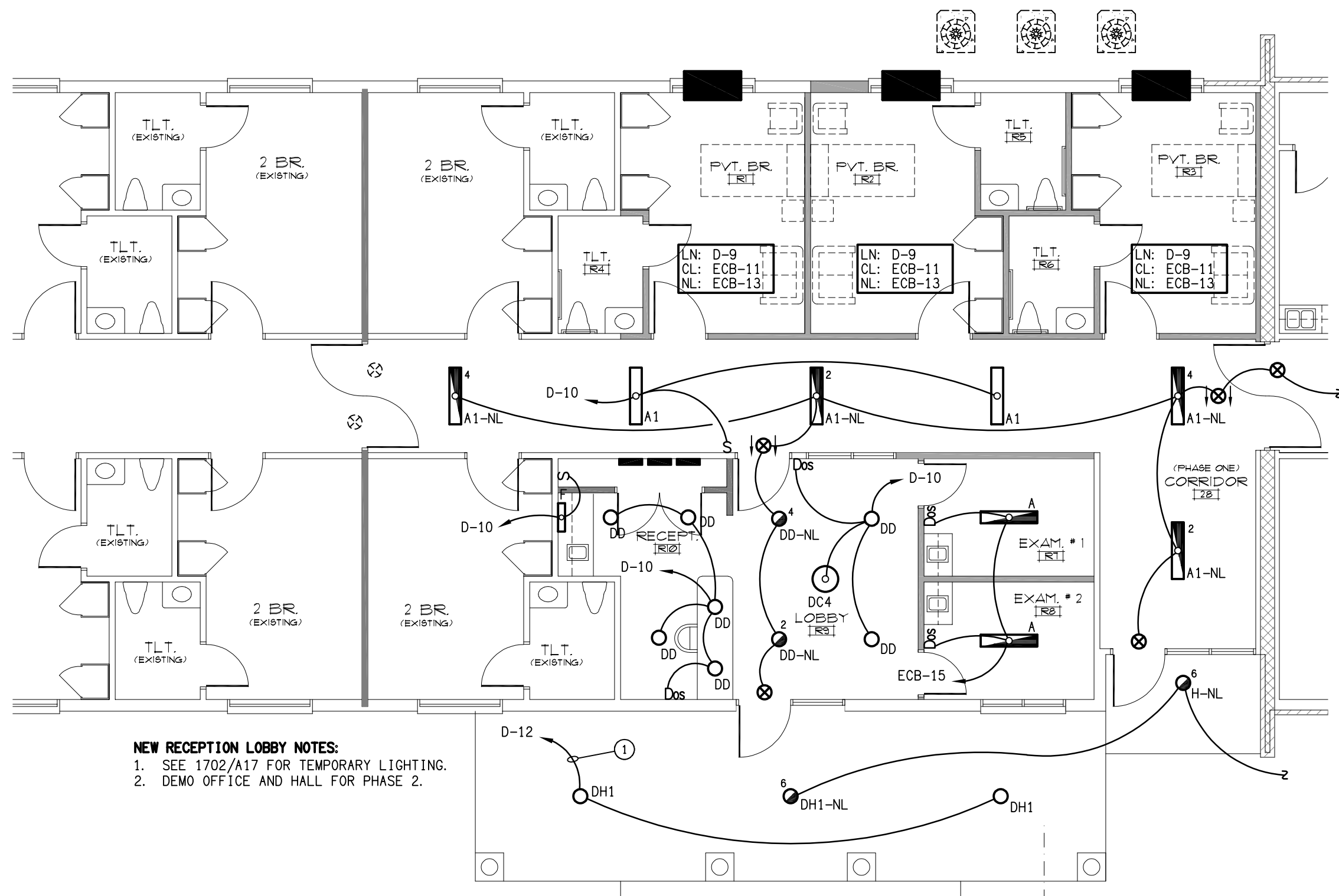
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KEY NOTES

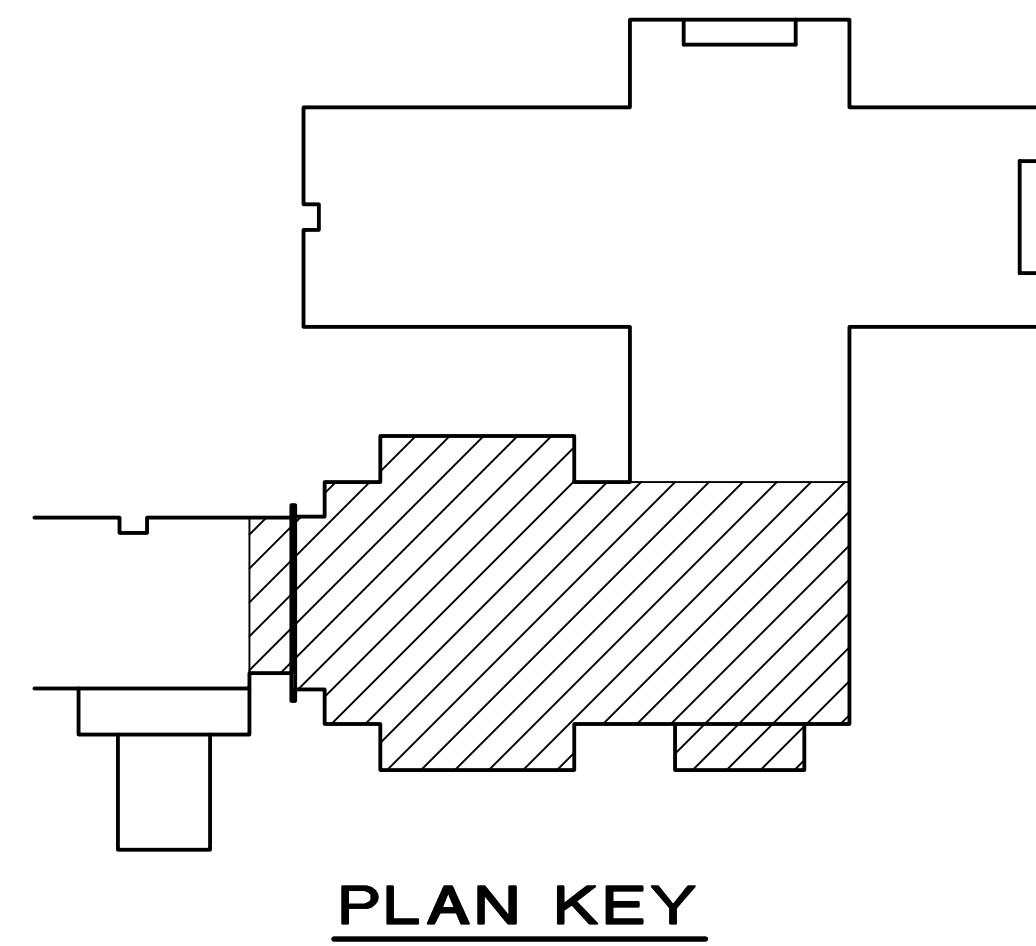
- ① POWER COMPANY TRANSFORMER. VERIFY LOCATION.
- ② GENERATOR. VERIFY LOCATION.
- ③ PHOTOCELL CONTROL.



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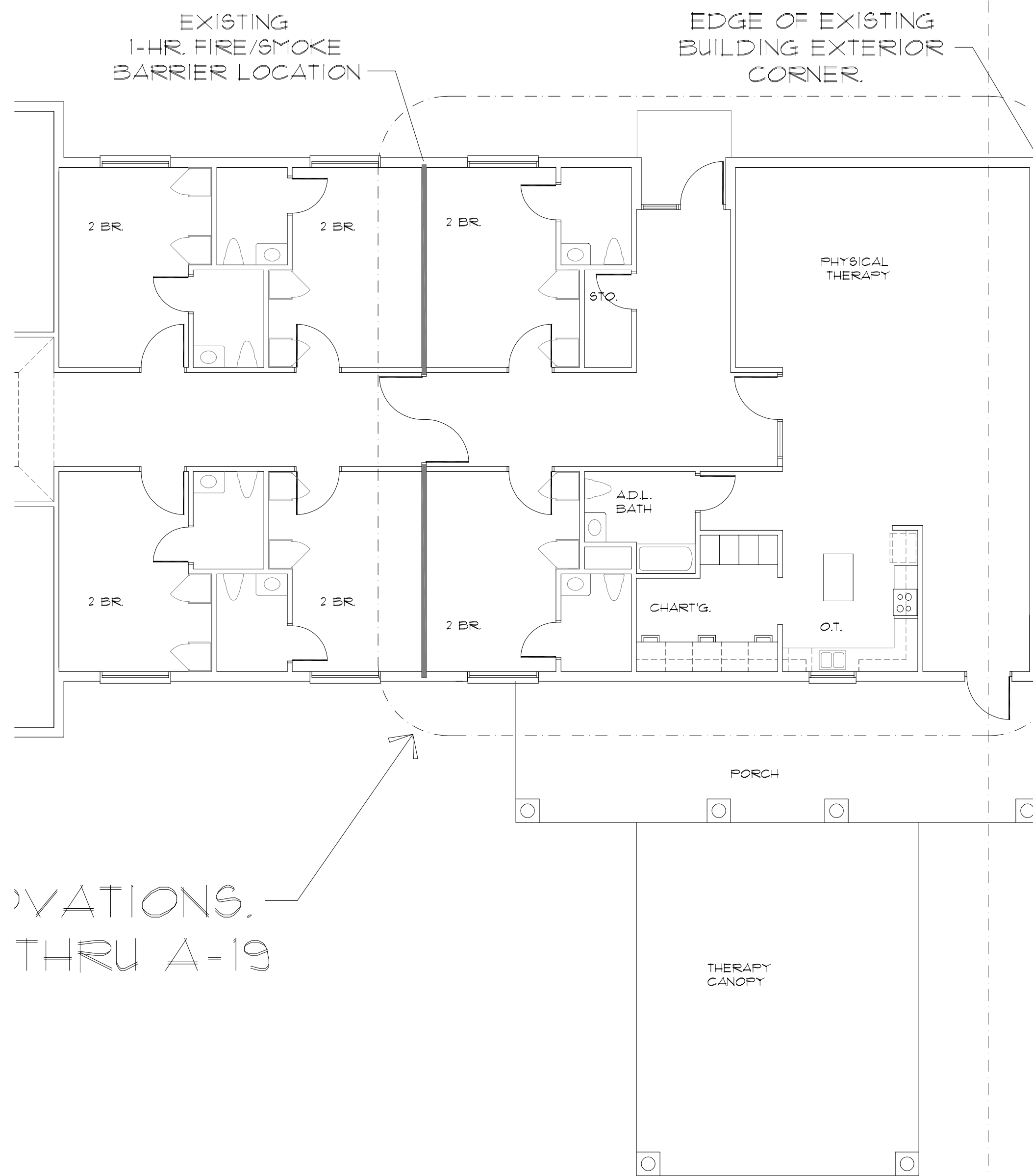
B PHASE 2 LIGHTING PLAN
E3 SCALE: 1/8" = 1'-0"



PLAN KEY

KEY NOTES

- ① PROVIDE PHOTOCELL CONTROL



A PARTIAL ADDITION LIGHTING PLAN
E3 SCALE: 1/8" = 1'-0"

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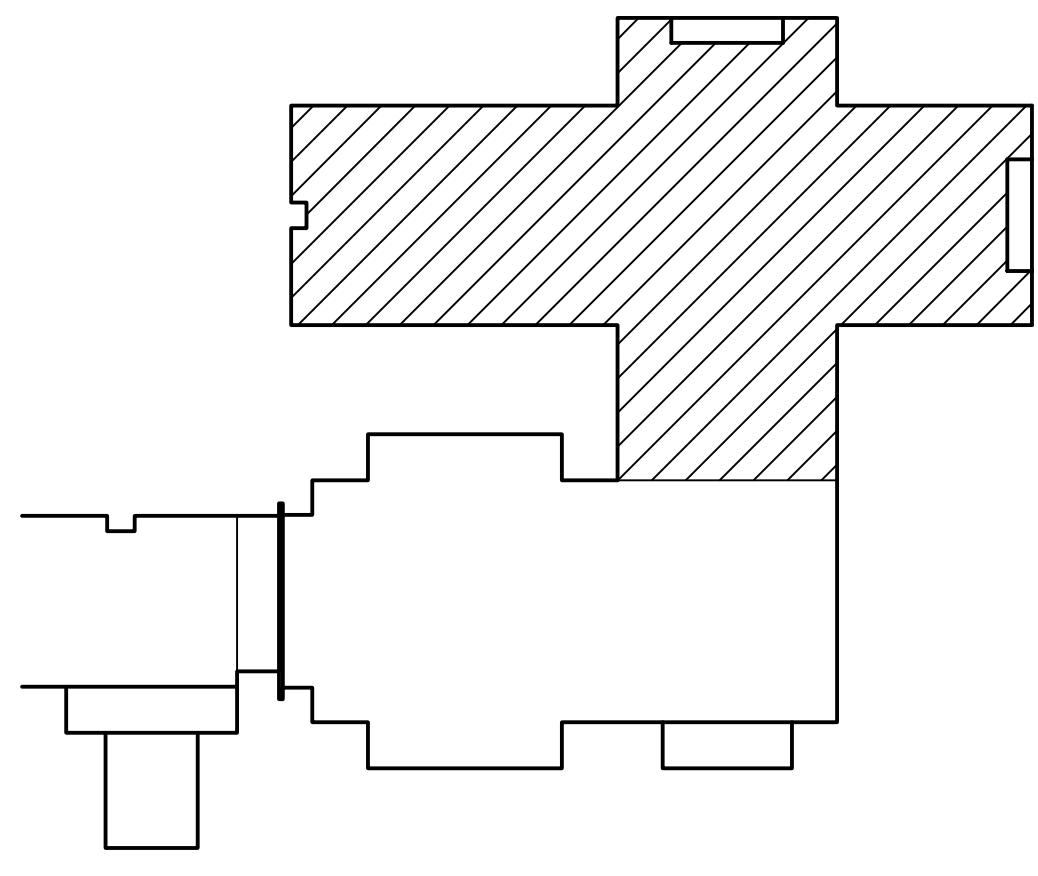
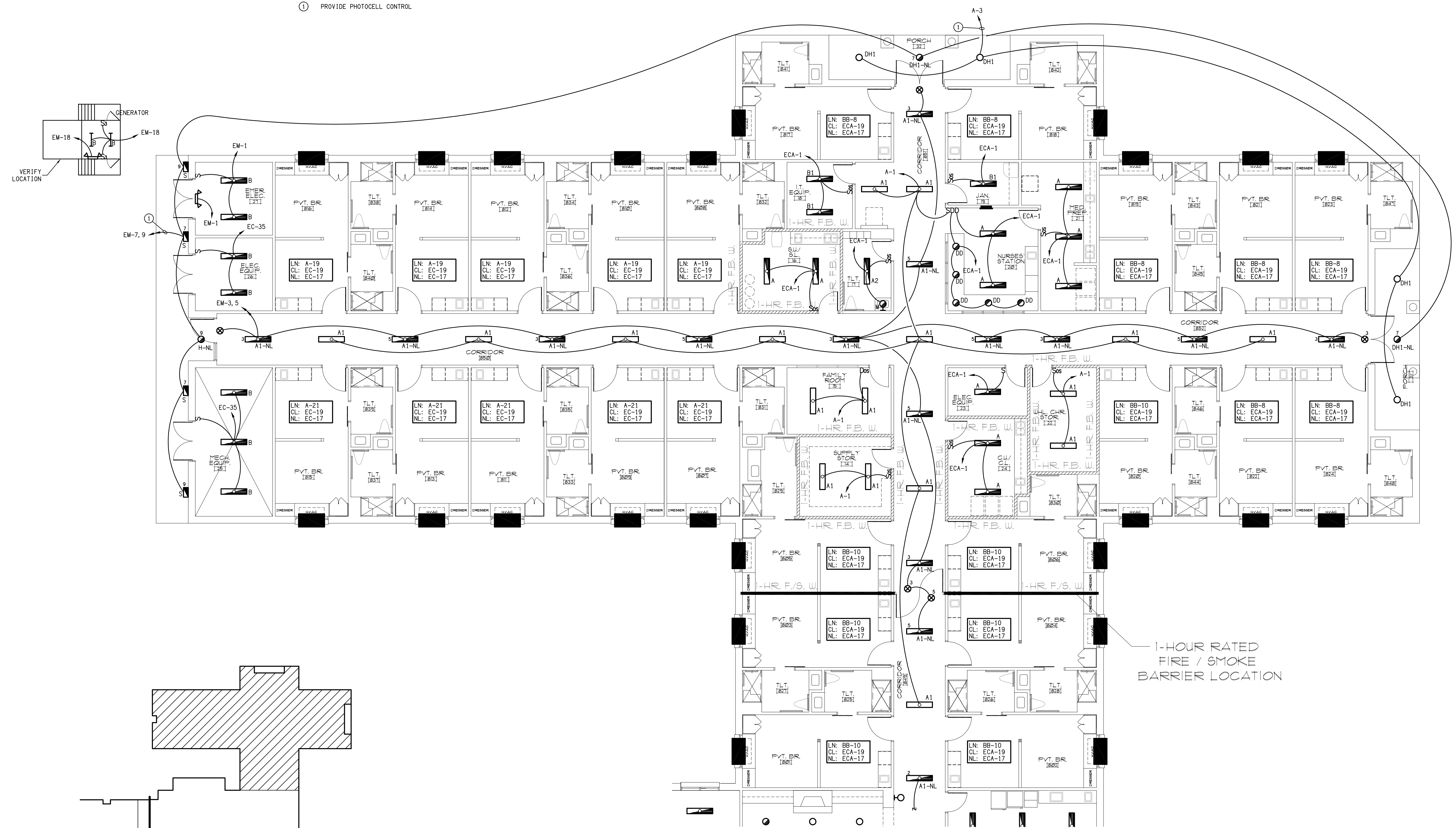
24 BED CONCIERGE /
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PHASE ONE

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KEY NOTES

- ① PROVIDE PHOTOCELL CONTROL



PLAN KEY

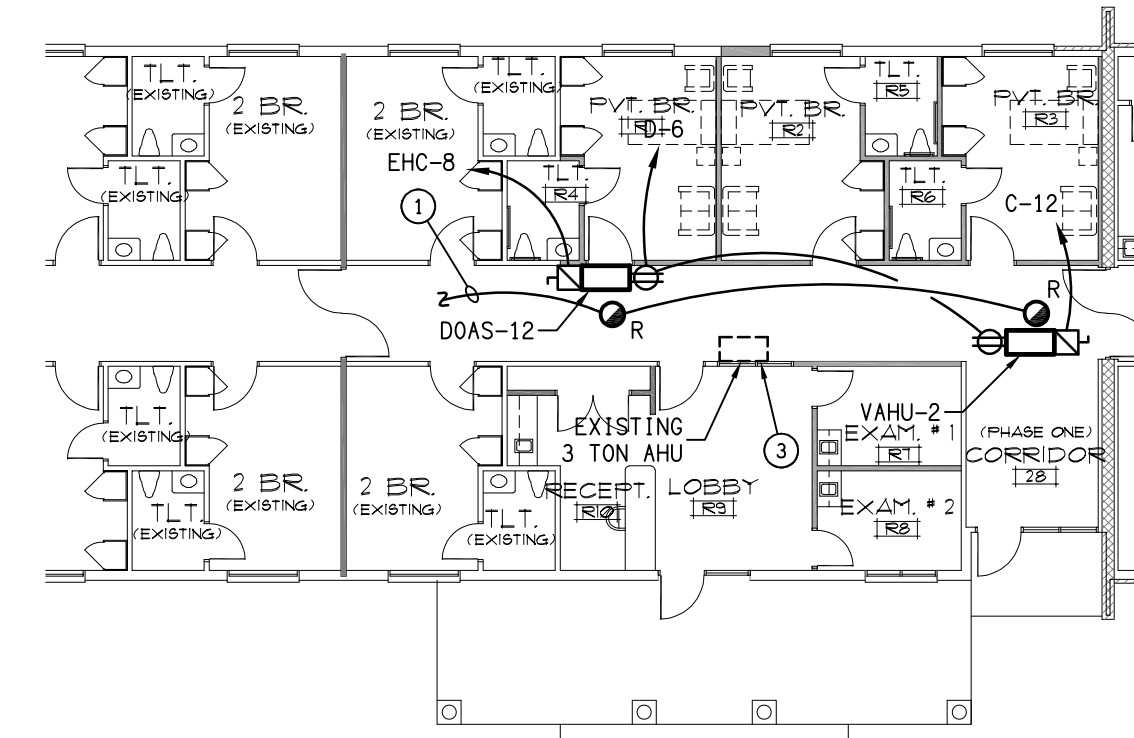
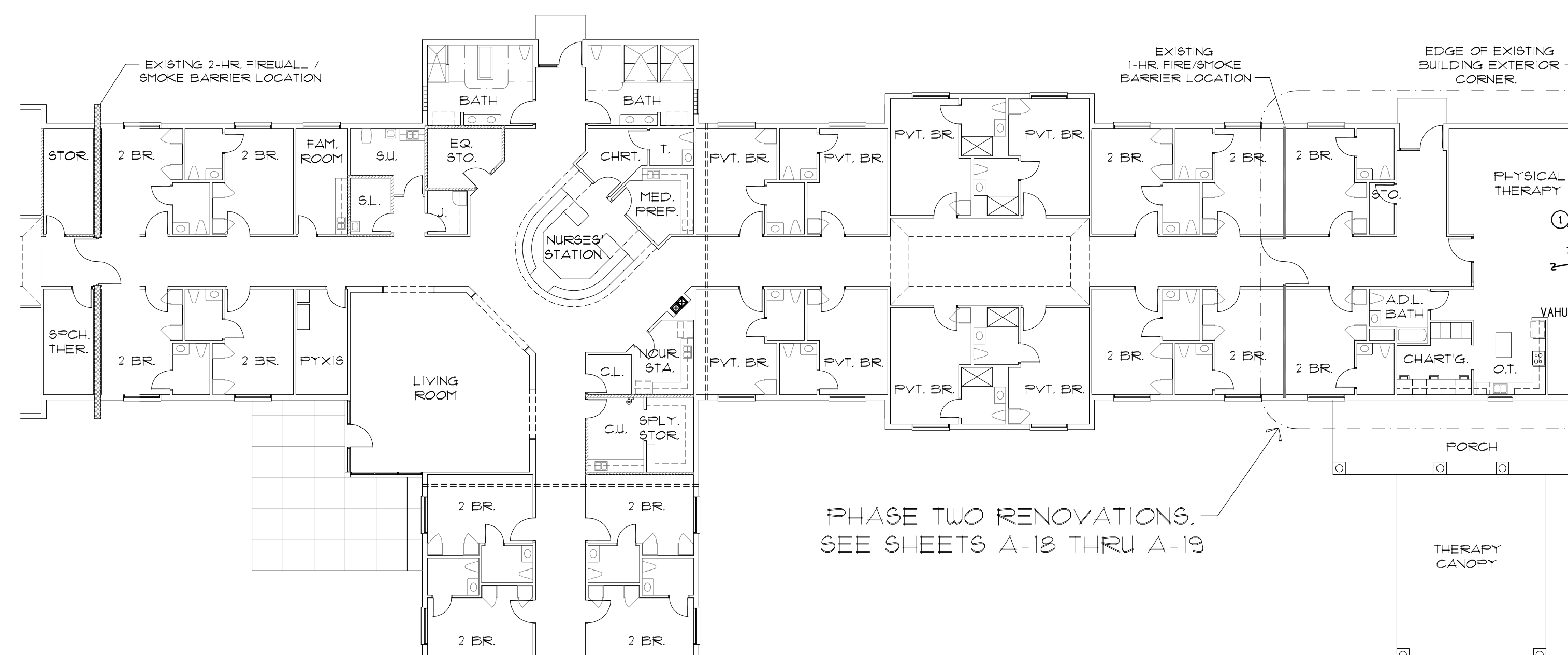
1-HOUR RATED
FIRE / SMOKE
BARRIER LOCATION

A PARTIAL ADDITION LIGHTING PLAN
E4 SCALE: 1/8" = 1'-0"

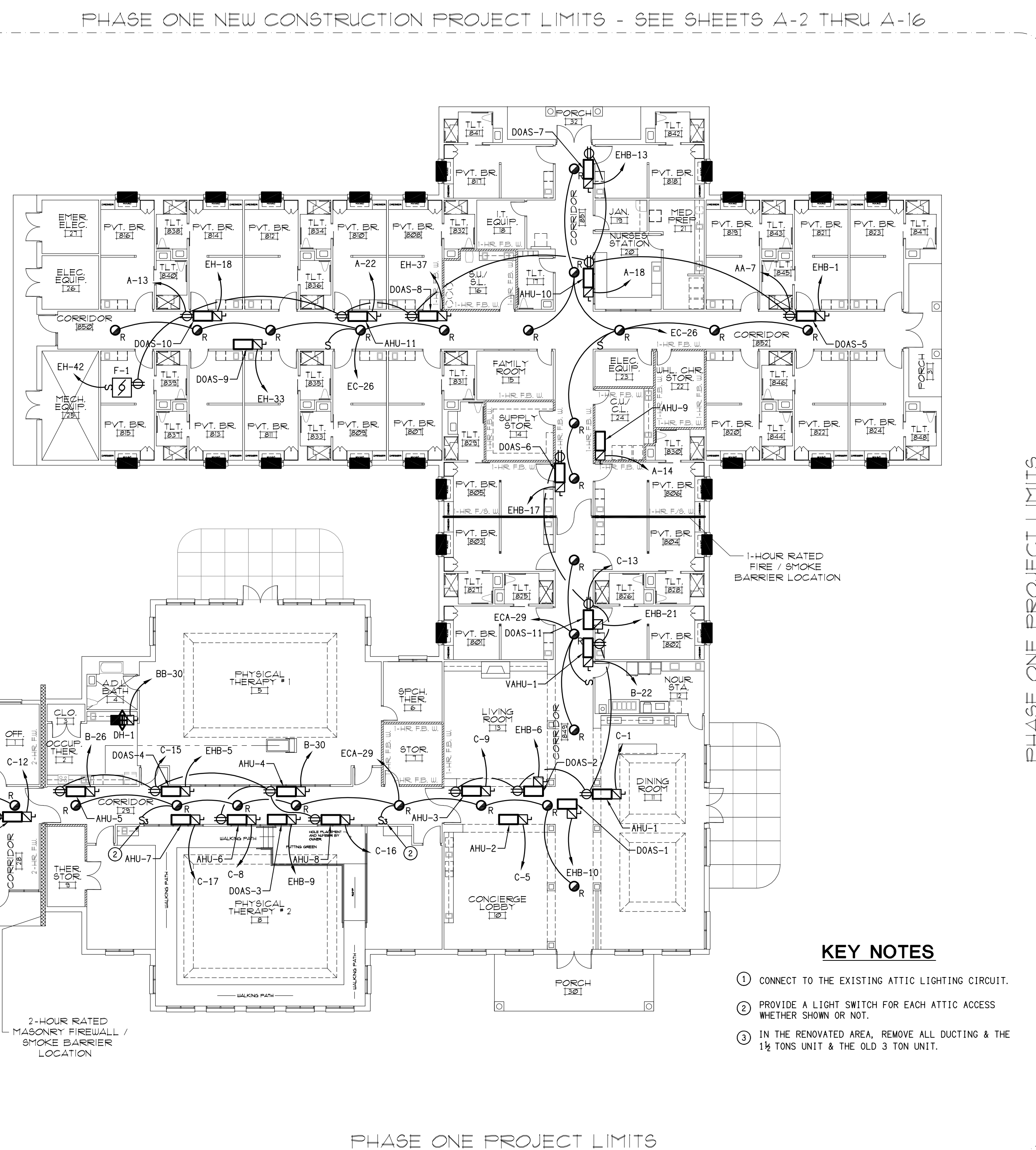
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SYMBOL	DESCRIPTION	HP	KW	AMP	VOLT	PHASE	BKR	FEEDER		CONNECTION	REMARKS	
								COND	WIRE			
⊙ _A	AUTOMATIC DOOR	-	-	6	120	1	20/1	1/2"	2#12, #12G	SWITCH	CRITICAL POWER	
⊙ _B	RANGE	-	-	-	208	1	40/2	3/4"	3#8, #10G	RECEPTACLE	PROVIDE KEY LOCK & TIMER	
⊙ _C	RANGE HOOD	-	-	2	120	1	20/1	1/2"	2#12, 1#12G	DIRECT	PROVIDE A FIRE EXTINGUISHING SYSTEM	
⊙ _D	DISHWASHER	-	-	10	120	1	20/1	1/2"	2#12, 1#12G	RECEPTACLE	LOCATE RECEPTACLE UNDER CABINET	
⊙ _E	FIREPLACE	-	-	2	120	1	20/1	1/2"	2#12, 1#12G	SWITCH	INCLUDE CONNECTION TO THE TV RECEPTACLE. SEE A/E6	
H-5, 6	1 1/2 TON HEAT PUMP	-	-	12	208	1	20/2	1/2"	2#10, 1#10G	FUSED DISC NEMA 3R	-	
HP-2, 9, 11	2 TON HEAT PUMP	-	-	15	208	1	25/2	1/2"	2#10, 1#10G	FUSED DISC NEMA 3R	-	
HP-8	3 TON HEAT PUMP	-	-	18	208	1	35/2	3/4"	2#8, 1#10G	FUSED DISC NEMA 3R	VERIFY BREAKER	
HP-1	3 1/2 TON HEAT PUMP	-	-	20	208	1	40/2	3/4"	2#8, 1#10G	FUSED DISC NEMA 3R	-	
HP-3, 7, 10	4 TON HEAT PUMP	-	-	25	208	1	45/2	3/4"	2#8, 1#10G	FUSED DISC NEMA 3R	-	
HP-4	5 TON HEAT PUMP	-	-	29	208	1	50/2	1"	2#6, 1#10G	FUSED DISC NEMA 3R	VERIFY BREAKER	
AHU-5, 6	AIR HANDLING UNIT	-	3.8	19	208	1	25/2	1/2"	2#10, 1#10G	FUSED DISC NEMA 1	-	
AHU-2, 8, 9, 11	AIR HANDLING UNIT	-	5.7	30	208	1	40/2	3/4"	2#8, 1#10G	FUSED DISC NEMA 1	-	
AHU-1	AIR HANDLING UNIT	-	7.2	40	208	1	50/2	3/4"	2#8, 1#10G	FUSED DISC NEMA 1	-	
AHU-3, 10	AIR HANDLING UNIT	-	7.2	45	208	1	60/2	1"	2#6, 1#10G	FUSED DISC NEMA 1	-	
AHU-4	AIR HANDLING UNIT	-	10.8	30	208	3	50/3	3/4"	3#8, 1#10G	FUSED DISC NEMA 1	-	
PTAC-1	PACKAGE TERMINAL HEAT PUMP	-	-	14	208	1	20/2	1/2"	1-80' #12 81-150' #10 OVER 150' #8	PTAC RECEPTACLE	-	
VHP-1, 2	1 1/2 TON VARIABLE REFRIGERANT FLOW HEAT PUMP	-	-	14	208	1	20/2	1/2"	2#10, 1#10G	FUSED DISC NEMA 3R	-	
VAHU-1, 2	1 1/2 TON VARIABLE REFRIGERANT FLOW AIR HANDLING UNIT	-	-	3	208	1	15/2	1/2"	2#12, 1#12G	FUSED DISC NEMA 1	-	
DC-1	VRF COOLING ONLY	-	-	6	208	1	15/2	1/2"	2#12, 1#12G	FUSED DISC NEMA 1	DATA ROOM	
DH-1	DUCT HEATER	-	-	2	10	208	1	20/2	1/2"	2#12, 1#12G	FUSED DISC NEMA-1	-

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



B E5 PHASE 2 ATTIC LIGHTING & POWER PLAN
SCALE: 1/16" = 1'-0"



KEY NOTES

- ① CONNECT TO THE EXISTING ATTIC LIGHTING CIRCUIT.
- ② PROVIDE A LIGHT SWITCH FOR EACH ATTIC ACCESS WHETHER SHOWN OR NOT.
- ③ IN THE RENOVATED AREA, REMOVE ALL DUCTING & THE 1 1/2 TONS UNIT & THE OLD 3 TON UNIT.

A E5 ATTIC LIGHTING & POWER PLAN
SCALE: 1/16" = 1'-0"

symbol	date	description	by
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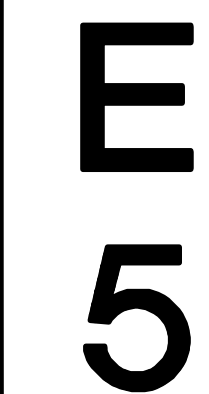
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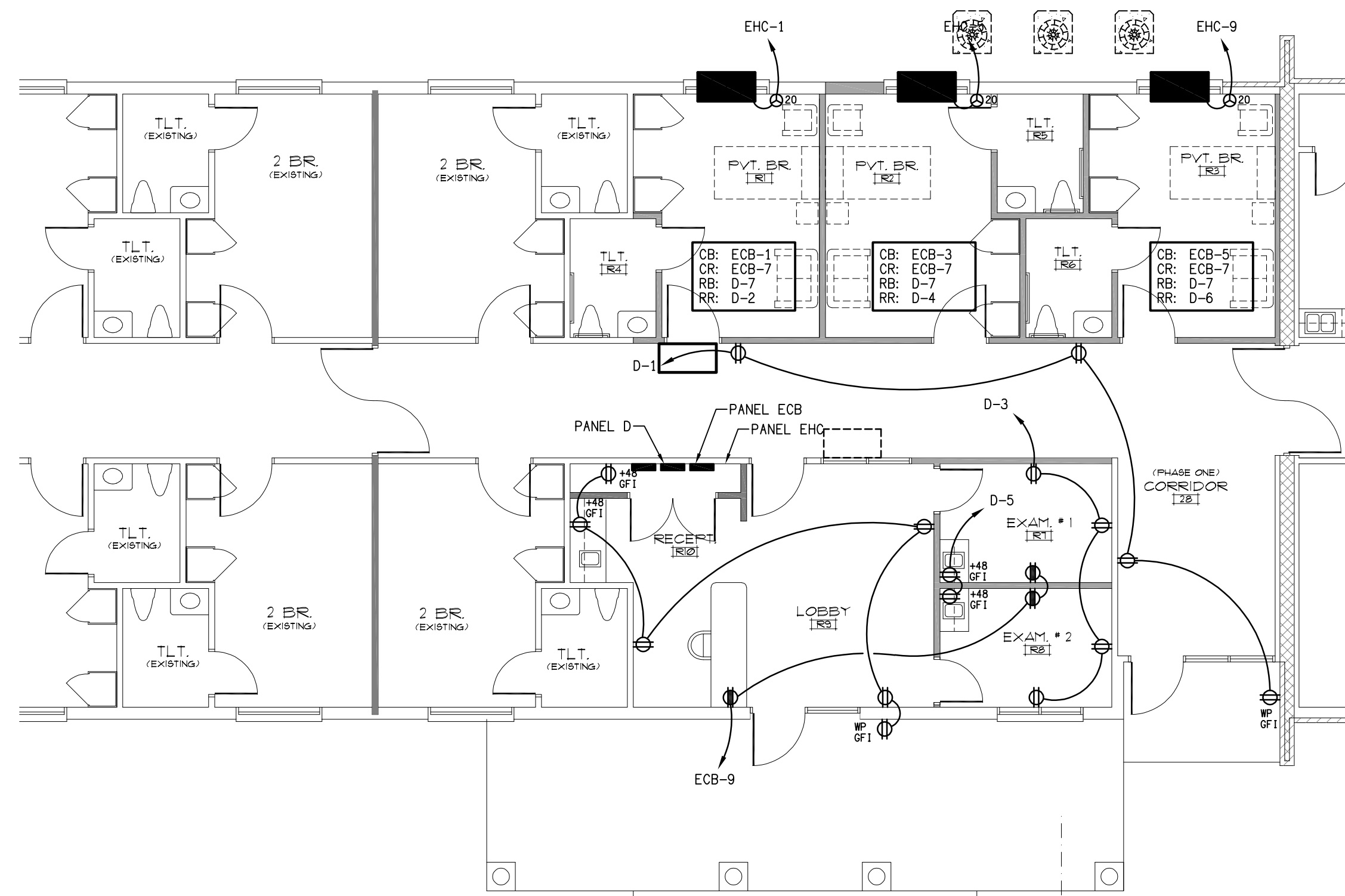
PROFESSIONAL SEAL
DAVID SIMS
ENGINEER
8/6/24

UNI HEALTH POST-ACUTE CARE
Raleigh, North Carolina

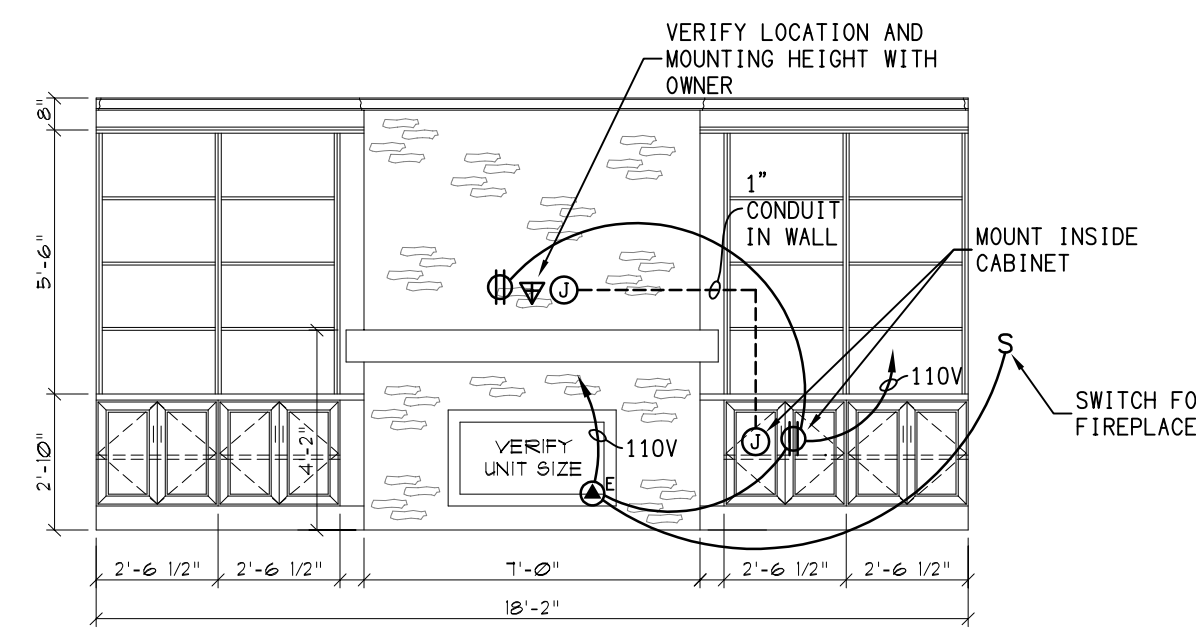
David R. Polston - Architect
3806 Park Ave. Suite 2-L, Wilmington, NC 28403
Architecture Planning Design

24 BED CONCERGE / THERAPY ADDITION
PHASE ONE

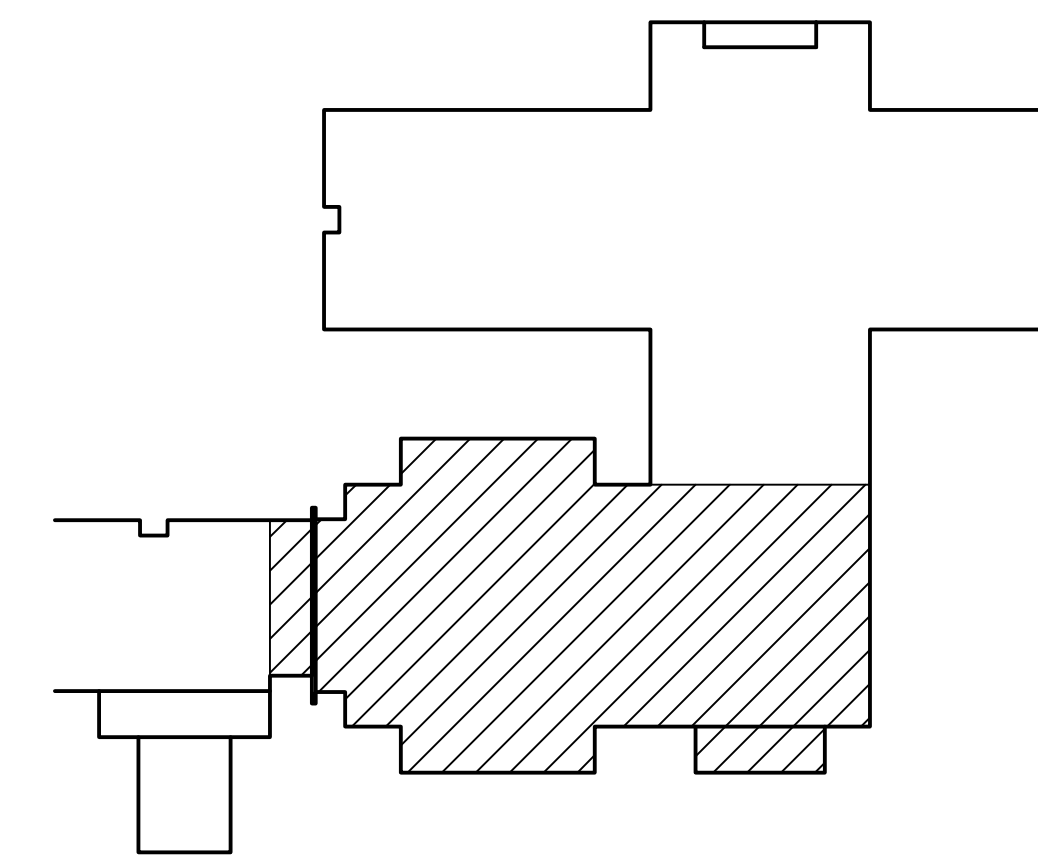




B
E6 **PHASE 2 POWER PLAN**
SCALE: 1/8" = 1'-0"



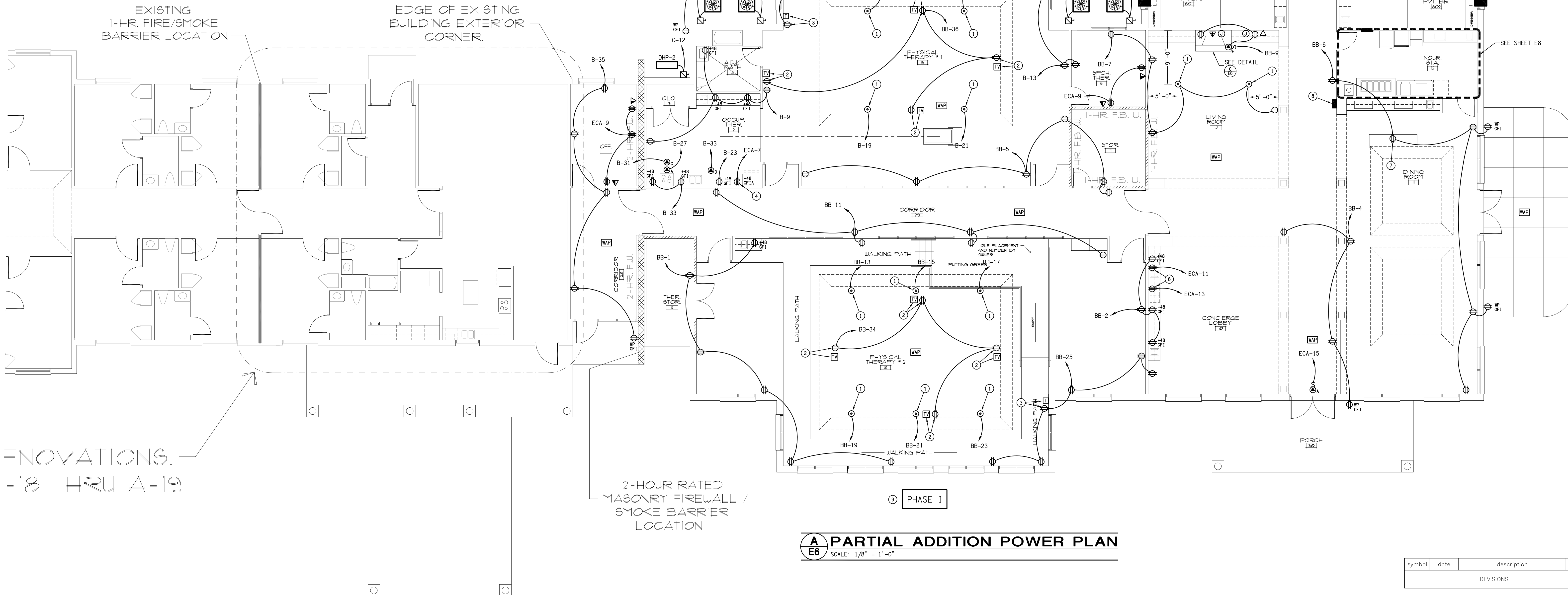
C
E6 **LIVING ROOM ELEVATION**
SCALE: 1/4" = 1'-0" (ROOM #13)



PLAN KEY

KEY NOTES

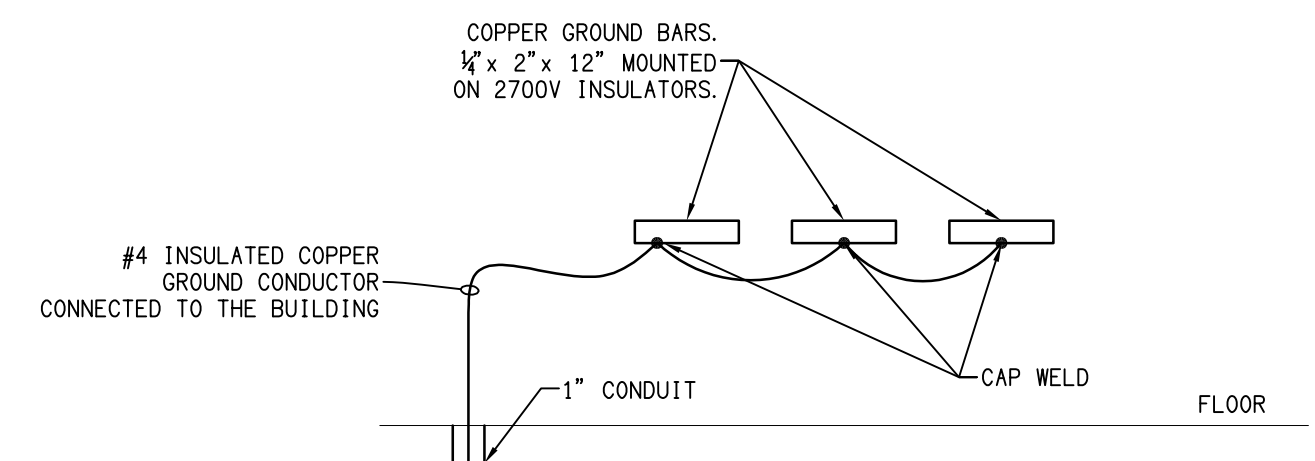
- 1 FLOOR METAL RECEPTACLE BOX. PROVIDE DEEP BOXES WITH BRASS COVERPLATES. VERIFY LOCATIONS WITH OWNER.
- 2 CEILING MOUNTED.
- 3 VERIFY MOUNTING HEIGHT.
- 4 SET OFIA AT COUNTER. RECEPTACLE SHALL BE A 20A SINGLE POLE RECEPTACLE.
- 5 VERIFY MOUNTING & LOCATION.
- 6 SET RECEPTACLE AT REFRIGERATOR. VERIFY LOCATION.
- 7 VERIFY LOCATION FOR RECEPTACLE. PROVIDE GROMMET ACCESS IF AT CABINET.
- 8 WIRELESS ACCESS POINT.
- 9 PROVIDE DEMOLITION FOR EXISTING EQUIPMENT ASSOCIATED WITH PHASE I.



A
E6 **PARTIAL ADDITION POWER PLAN**
SCALE: 1/8" = 1'-0"

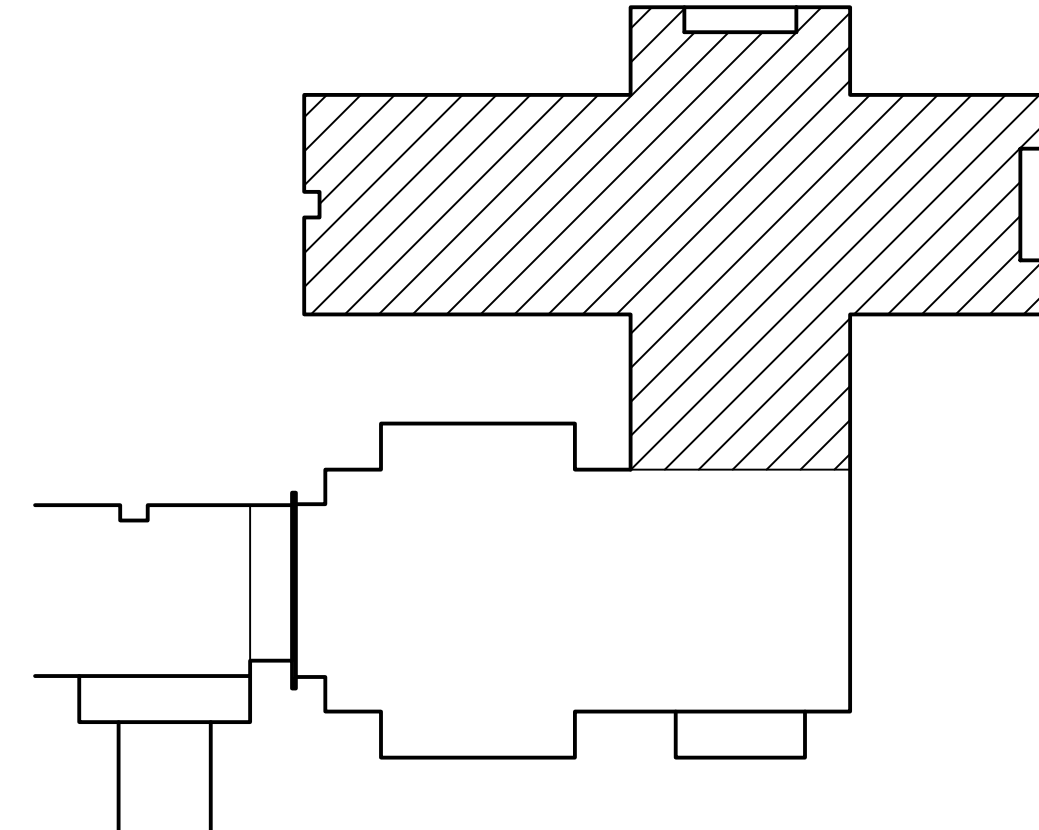
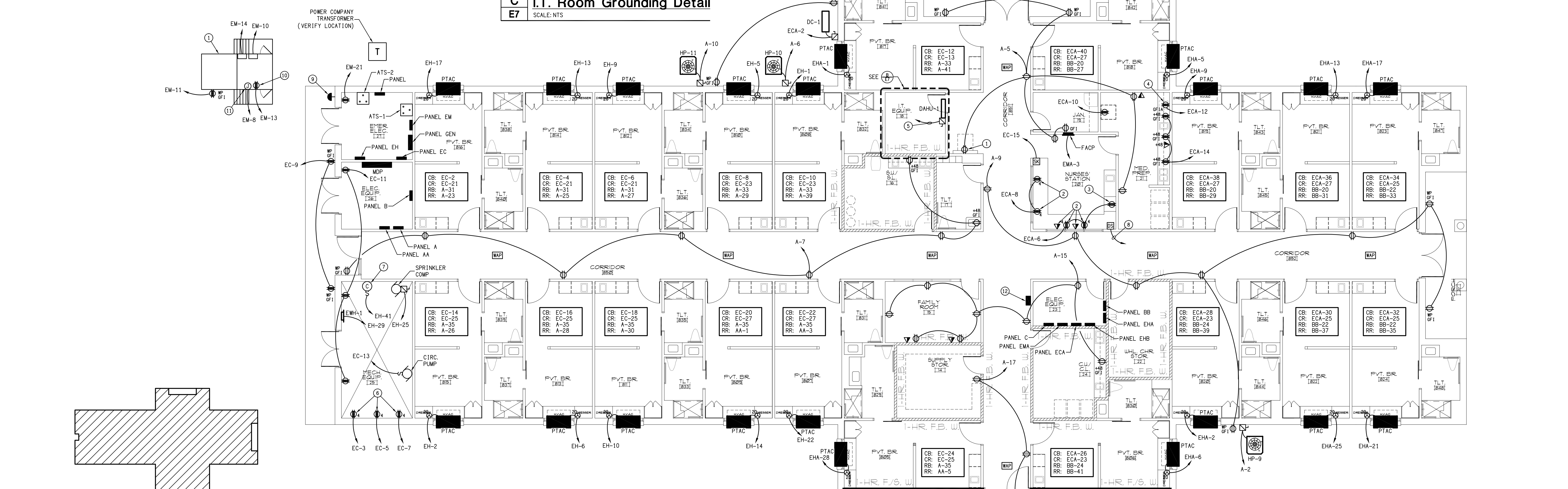
INNOVATIONS.
-18 THRU A-19

symbol	date	description	by
REVISIONS			



- GROUNDING NOTE:**
1. PROVIDE A BONDING JUMPER BETWEEN ALL METAL CASING COMPONENTS IN ROOM.
 2. PROVIDE MECHANICAL CONTINUITY PER 2014 FGI-2, 1-8, 5, 4, 2014 NEC-300.13, 517.13, 250, 92, 300.10 AND 250.98.
 3. ALL CONNECTIONS SHALL BE MADE WITH NON-REVERSIBLE SCREWS.
 4. GROUNDING TYPICAL OF ALL TDR ROOMS.
 5. ALL CONNECTIONS SHALL BE MADE WITH NON-REVERSABLE SCREWS.

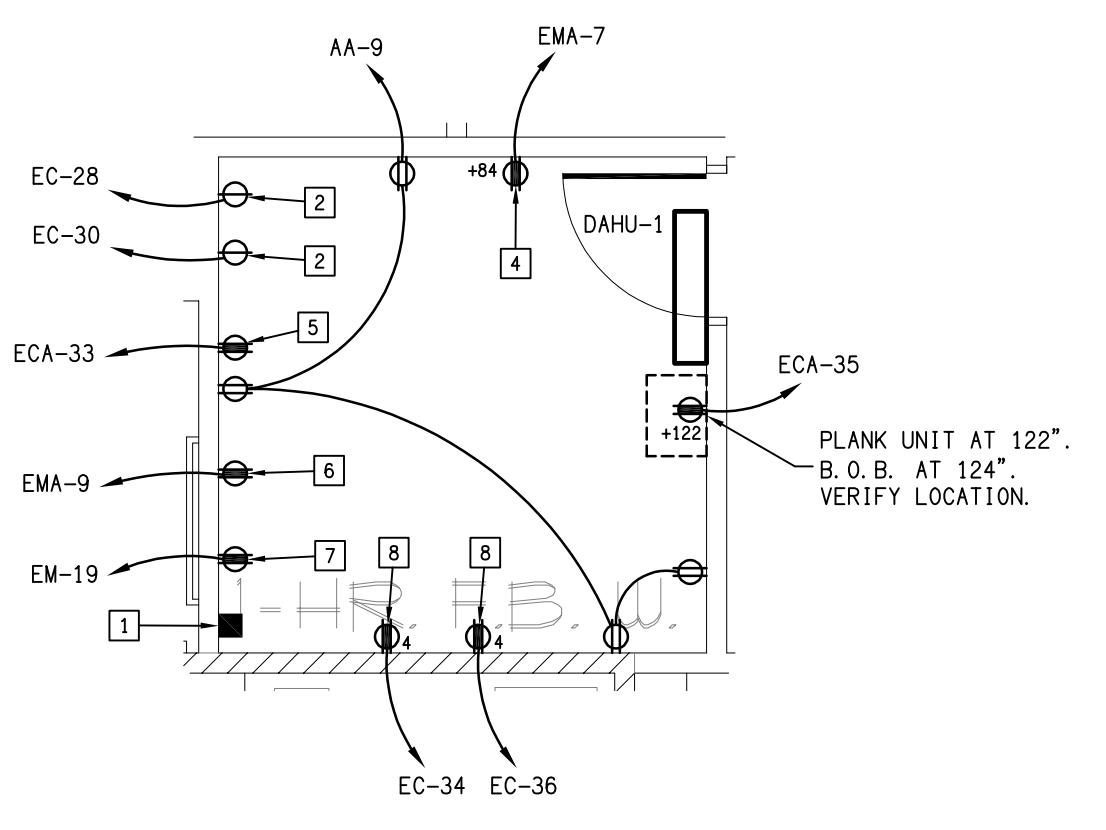
C I.T. Room Grounding Detail
SCALE: NTS



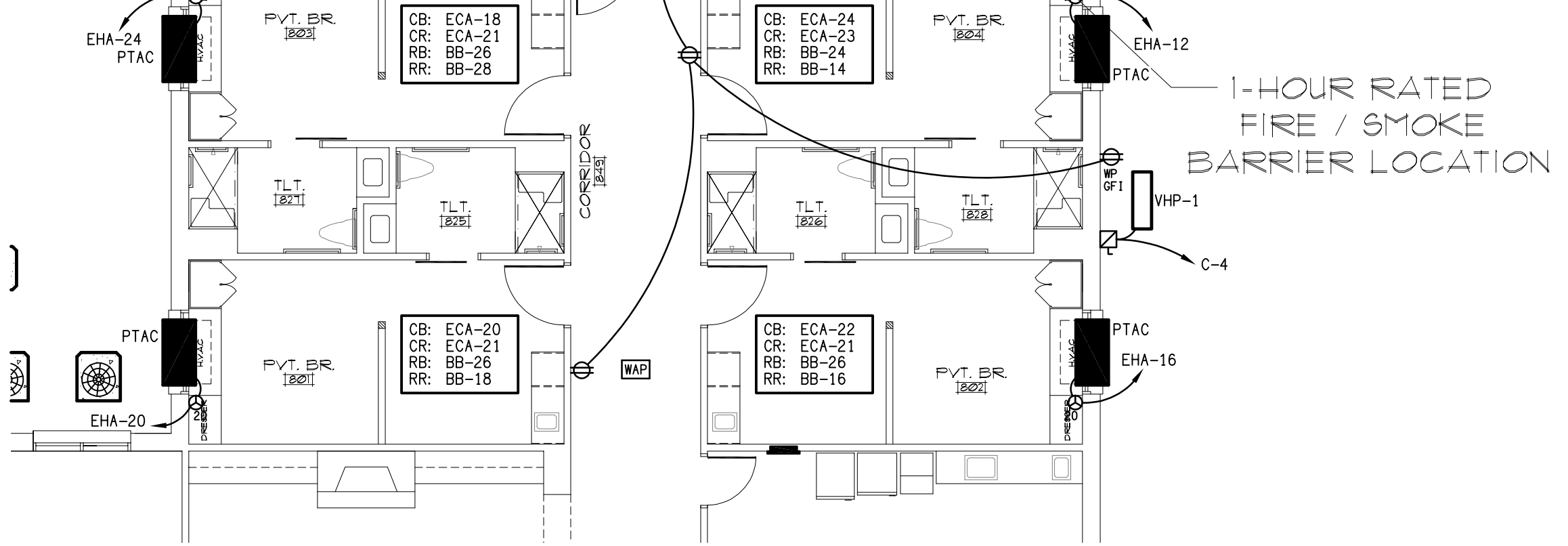
PLAN KEY

- I.T. ROOM KEY NOTES**
1. PROVIDE & INSTALL #14 INSULATED COPPER WIRE IN 1" O.D. GROUND TO THE ELECTRICAL SYSTEM GROUND. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BONDING INCLUDING BUT NOT LIMITED TO GROUNDING ALL RACKS AND T.D.R. PANELS. PROVIDE & INSTALL 3 GROUNDING BARS. ALSO PROVIDE 1/4" x 1/2" GROUNDING BOX. VERIFY ENTRY POINT OF GROUNDING CABLE. SEE GROUNDING DETAIL C/E7.
 2. SINGLE RECEPTACLE ON CRITICAL POWER FOR NURSE CALL.
 3. POWER FOR TV.
 4. P.A. SYSTEM.
 5. MAG-LOCK.
 6. FIRE ALARM.
 7. PHONE.
 8. RACKS.

- I.T. ROOM NOTES:**
1. THE OWNER SHALL APPROVE THE I.T. EQUIPMENT ROOM ELECTRICAL CONNECTIONS BEFORE EQUIPMENT IS ORDERED AND WORK BEGINS.



B I.T. EQUIPMENT ROOM
SCALE: 1/4" = 1'-0"



A PARTIAL ADDITION POWER PLAN
SCALE: 1/8" = 1'-0"

- KEY NOTES**
1. VERIFY LOCATION.
 2. GROMMET ACCESS. PLACE RECEPTACLE AND DATA BOX UNDER COUNTER.
 3. RECEPTACLE FOR IPAD CHARGER. PLACE IN CABINET. VERIFY LOCATION.
 4. PLACE RECEPTACLE AT REFRIGERATOR. DO NOT COVER RECEPTACLE.
 5. ROUTE TO OUTDOOR UNIT.
 6. POWER FOR HOT WATER SYSTEM. COORDINATE WITH PLUMBING CONTRACTOR FOR LOCATION.
 7. SPRINKLER SYSTEM CONTROLS.
 8. CONNECT TO THE DOOR SECURITY SYSTEM. USE EXISTING CRITICAL POWER. PROVIDE CRITICAL POWER BOOSTER IF NEEDED.
 9. GENERATOR KILL SWITCH. VERIFY LOCATION.
 10. BATTERY
 11. GENERATOR CONTROLS.
 12. WIRELESS ACCESS PANEL. VERIFY LOCATION.

symbol	date	description	by
REVISIONS			

DRAWING LOCATION: F:\PROJECTS\2024\UNHEALTH\WORK\DWG\240827.dwg DATE: 08/06/2024 TIME: 9:53

PATIENT ROOM KEY NOTES

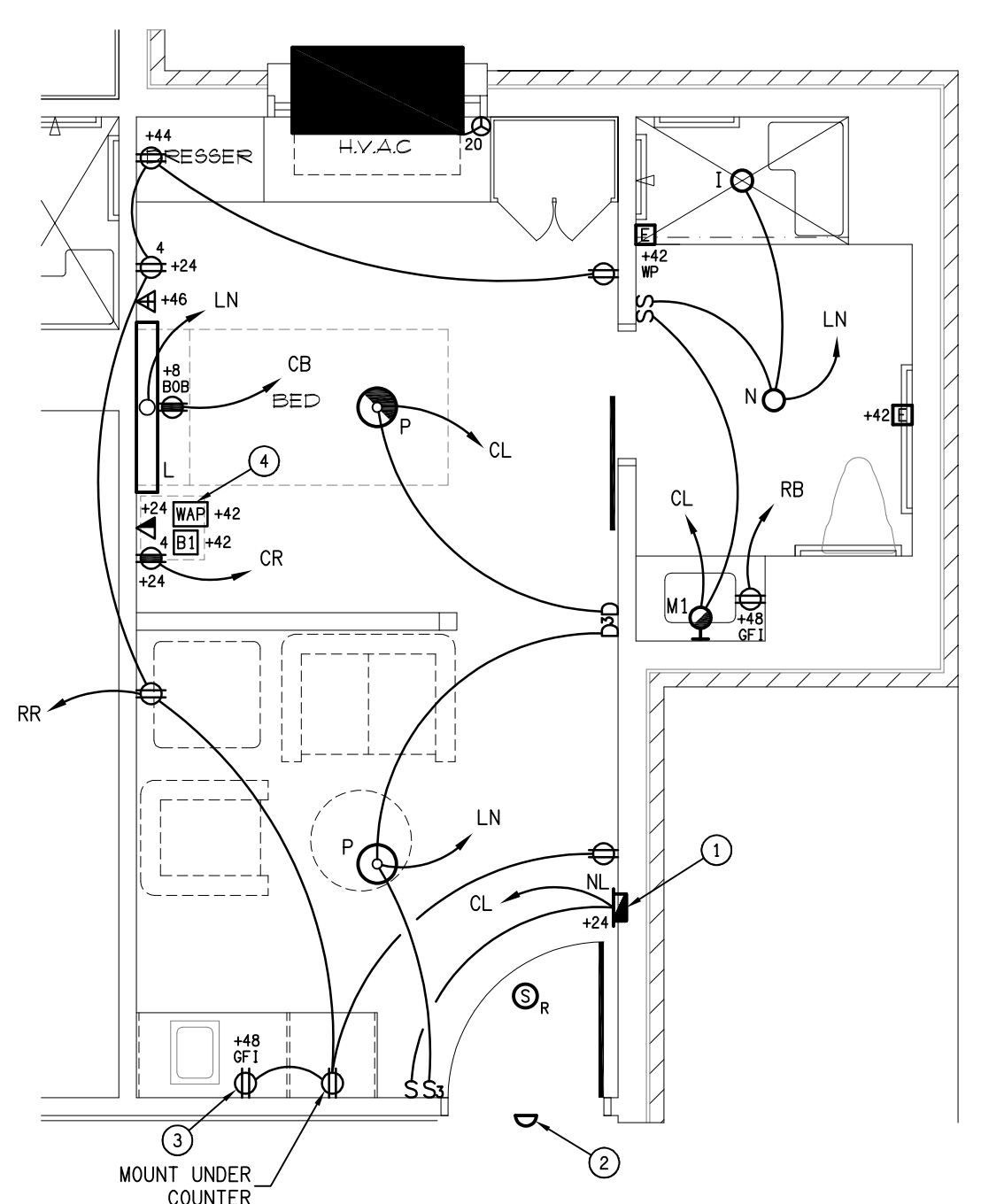
1. INSTALL NL TO MISS DOOR WHEN OPEN.
2. LOCATE IN CEILING.
3. SET GF1 WHERE IT WILL ONLY KILL THE RECEPTACLE AT SINK.
4. JUNCTION BOX FOR WIFI. LOCATE IN PHONE/DATA BOX.

- GENERAL NOTES:**
1. DIMMER SWITCH SHALL BE ARIADNI AYCL-153P. FOR 3-WAY USE CLARO. (FOR PATIENT ROOMS ONLY).
 2. AT TOILET NURSE CALL, PULL STATION SHALL BE INSTALLED 12" IN FRONT OF THE BOWL AND 42" ABOVE FINISHED FLOOR.
 3. COORDINATE OVERHEAD LIGHTS AND BED WALL RECEPTACLES WITH THE INTERIOR DESIGNER HEADWALL PROTECTION. SEE INTERIOR DESIGNER DRAWINGS & COORDINATE WITH OWNER.

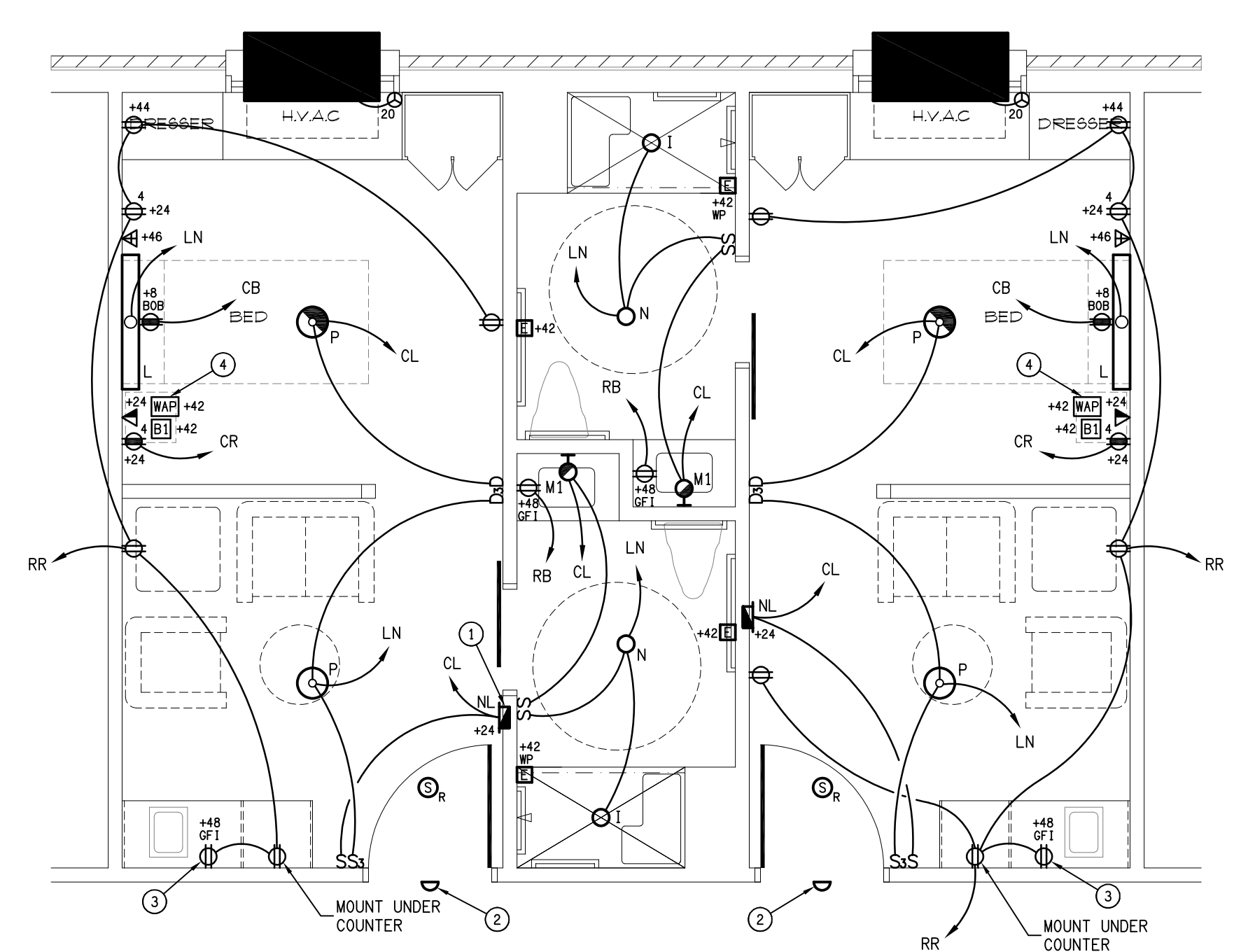
WIRE LEGEND	
SYMBOL	DESCRIPTION
RR	RECEPTACLE CIRCUIT NORMAL POWER
RB	BATHROOM RECEPTACLE NORMAL POWER
LN	LIGHTS NORMAL POWER
CL	LIGHTS CRITICAL POWER
NL	NIGHT LIGHT CRITICAL POWER
CB	RECEPTACLE CRITICAL POWER FOR BED
CR	RECEPTACLE CRITICAL POWER FOR HEAD WALL

SYMBOL	DESCRIPTION	HP	KW	AMP	VOLT	PHASE	BKR	FEEDER		CONNECTION	REMARKS
								COND	WIRE		
1	PANINI GRILL	-	-	15	120	1	20/1	½"	2#12, 1#12G	RECP	NOTE 1
2	TOASTER CONVEYOR TYPE	-	-	15	208	1	20/2	½"	2#12, 1#12G	RECP	NOTE 1
3	HOT FOOD TABLE	-	-	20	208	1	30/2	½"	2#10, 1#10G	RECP	NOTE 1
4	MOBILE DISH LOWRATER	-	-	10	120	1	20/1	½"	2#12, 1#12G	RECP	NOTE 1
5	REFRIGERATOR/FREEZER	-	-	12	120	1	20/1	½"	2#12, 1#12G	RECP	NOTE 1
8	ICE MAKER	-	-	15	120	1	20/1	½"	2#12, 1#12G	RECP	NOTE 1
9	HOLDING CABINET	-	-	16	120	1	20/1	½"	2#12, 1#12G	-	NOTE 1
10	REFRIGERATOR COUNTER HEIGHT	-	-	8	120	1	20/1	½"	2#12, 1#12G	RECP	NOTE 1
11	COFFEE URN	-	-	20	120	1	30/2	½"	3#10, 1#10G	-	NOTE 1, 2, 3, 4

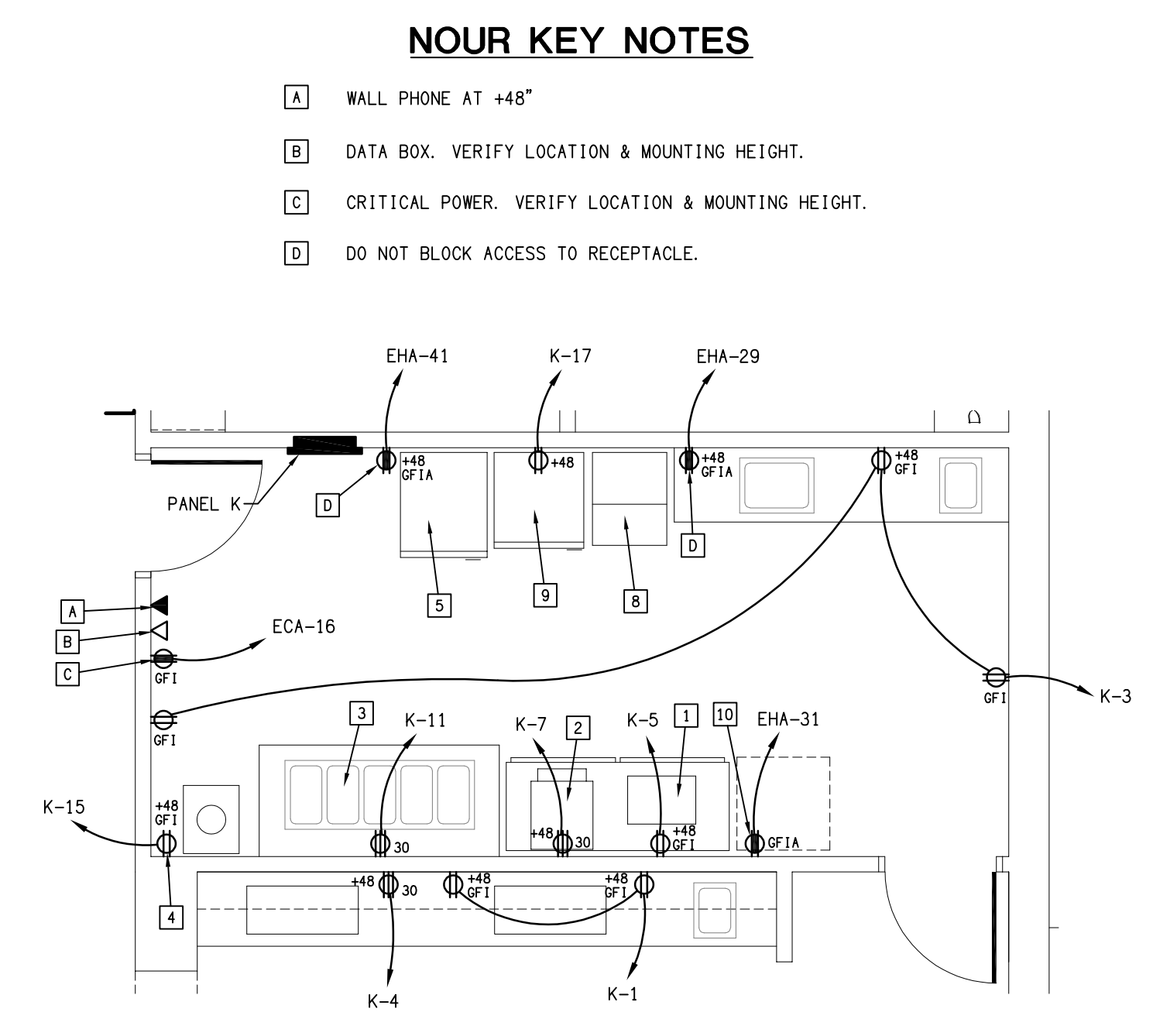
- NOTES:**
1. CONTRACTOR SHALL VERIFY ALL CONNECTIONS BEFORE RUNNING SERVICE OR ORDERING EQUIPMENT.
 2. VERIFY NEUTRAL.
 3. VERIFY LOCATION.
 4. VERIFY kW.



A LIGHTING & POWER PLAN
E8 SCALE: 1/4" = 1'-0" (TYPICAL HALF SUITE)



B LIGHTING & POWER PLAN
E8 SCALE: 1/4" = 1'-0" (TYPICAL BEDROOM SUITE)

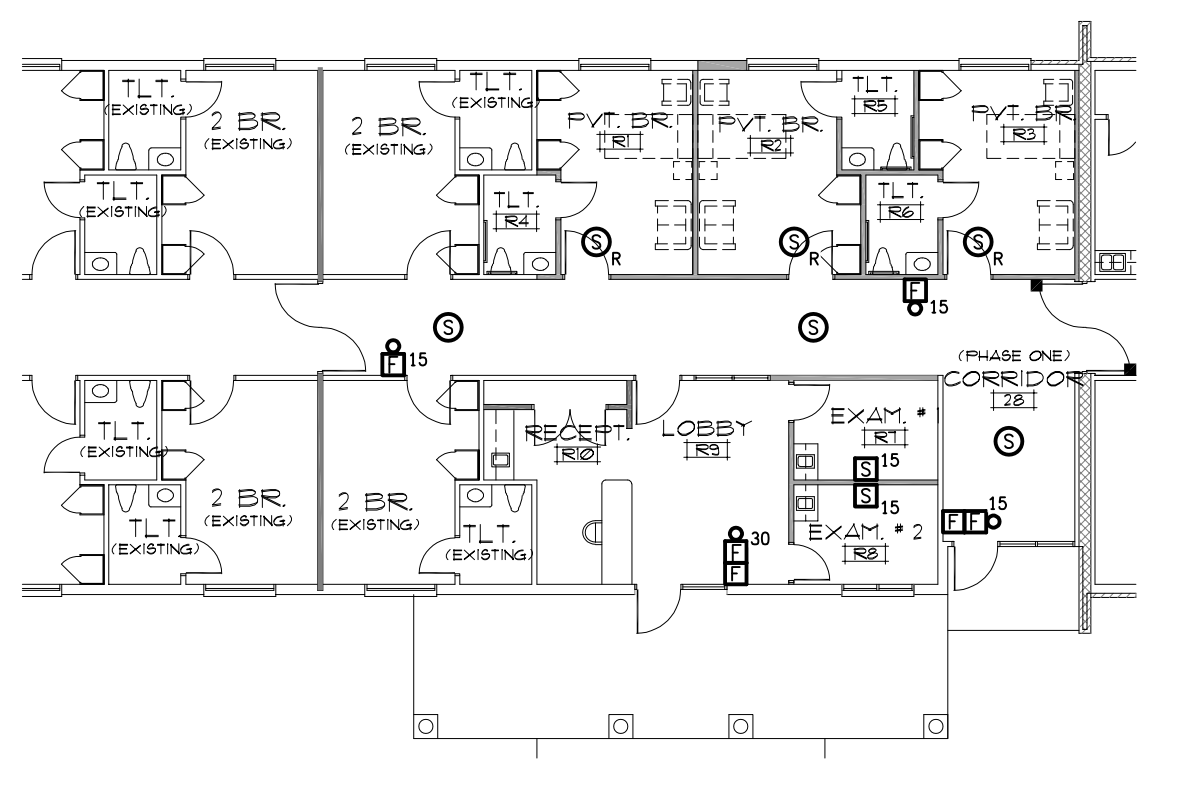


C NOURISHMENT STATION #12 POWER PLAN
E8 SCALE: 1/4" = 1'-0"

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REVISIONS			

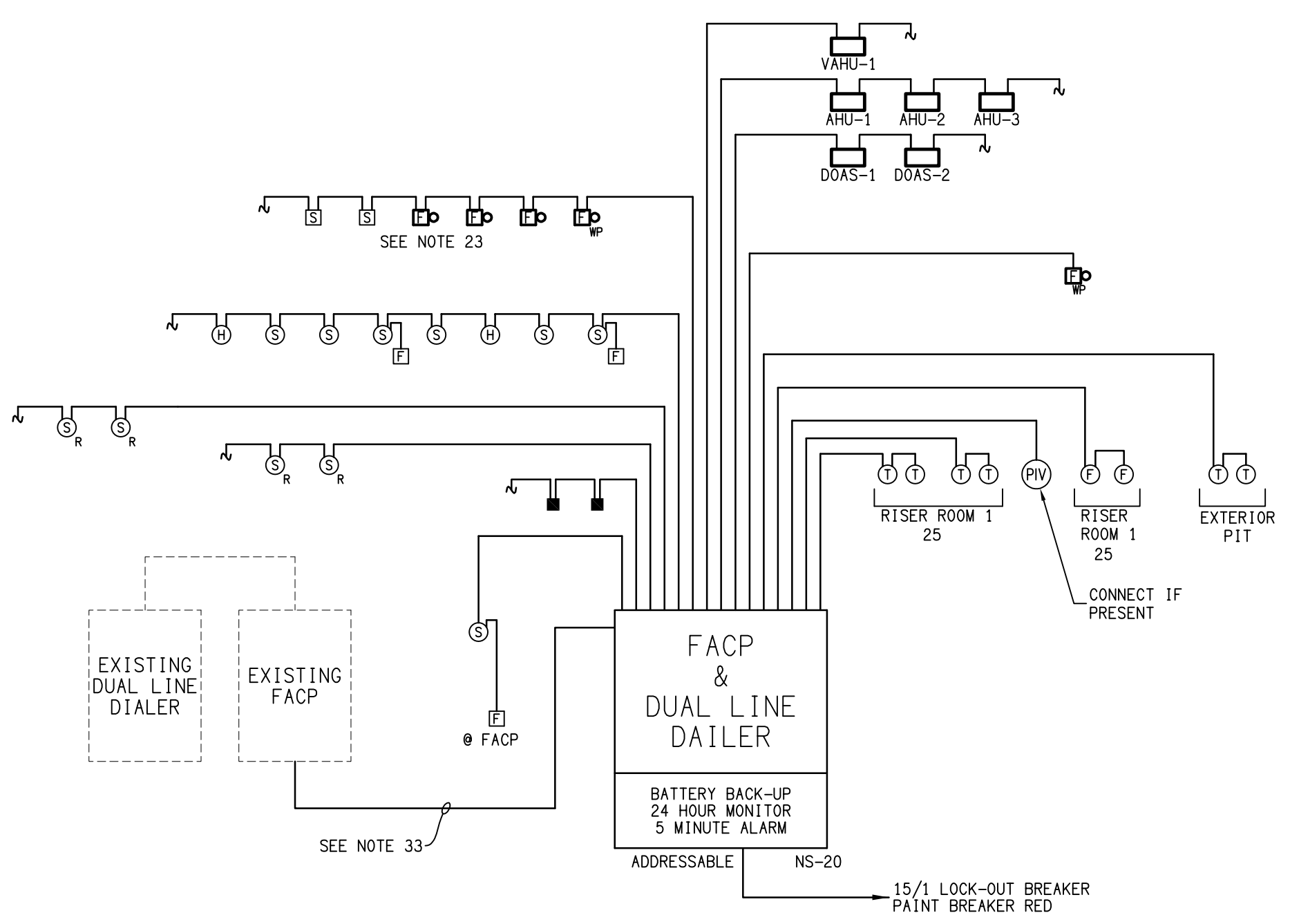
NOTES:

- COORDINATE WITH MECHANICAL CONTRACTOR TO KEEP ALL SMOKE DETECTORS AT LEAST 3'-0" AWAY FROM ALL HVAC SUPPLY AND RETURN REGISTERS AND MAINTAIN A MAXIMUM OF 30'-0" SPACING BETWEEN SMOKE DETECTORS IN THE CORRIDORS AND A 15'-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 TAMPERS 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
- 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 & ERV'S SHALL SHUT DOWN ON GENERAL ALARM.
- ALL SECURITY OPERATED DOORS SHALL OPEN UPON GENERAL ALARM CONDITIONS.
- INTERIOR TAMPERS, PRESSURE OR FLOW SWITCHES AND TAMPERS 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 TAMPERS SWITCHES IN THE BACKFLOW PREVENTER 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 AHU'S.
- 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.
- SMOKE DETECTOR SHALL SHOW IN THE FACP AND ANN AS A TROUBLE SIGNAL, NOT GENERAL ALARM.
- 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 TAMPERS SWITCH FOR BACKFLOW PREVENTER.
- VERIFY WHETHER TAMPERS 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 ENGINEER OF RECORD SHALL SIZE THE BATTERY BACK-UP AND THE CONTRACTOR SHALL PROVIDE A BATTERY THAT EXCEEDS THE CAPACITY CALLED FOR.
- 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-20/1 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.
- ALL REMOTE BATTERY CHARGERS SHALL BE CONNECTED TO A DEDICATED LIFE SAFETY RECEPTACLE WITH A LOCK-OUT BREAKER PAINTED RED. SEVERAL SPARE 15/1 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 AND 2014 FBC.
- PROVIDE A MAP OF ALL SMOKE COMPARTMENTS SHOWING A FIRE ALARM PLAN WITH ALL SMOKE COMPARTMENTS.
- ALL FIRE ALARM SUPERVISORY SYSTEMS SIGNALS MUST BE EITHER NON-CANCELABLE OR CAN BE PROVIDED WITH INTERMITTING DEVICE. THIS RECURS EVERY 5 MINUTES UNTIL THE SUPERVISORY CONDITIONS HAVE BEEN CLEARED.
- DUCT DETECTORS WILL ONLY BE REQUIRED FOR AIR HANDLING UNITS THAT EXCEED 2,000 CFM AND WHERE DUCTS PENETRATE FIRE RATED WALLS.
- NEW FIRE ALARM PANEL SHALL HAVE THE CAPACITY OF THE ES-1000X. THE NEW PANEL SHALL CONNECT TO THE EXISTING PANEL AND THE NEW PANEL SHALL BE THE MAIN PANEL.



B PHASE 2 FIRE ALARM PLAN
SCALE: 1/16" = 1'-0"

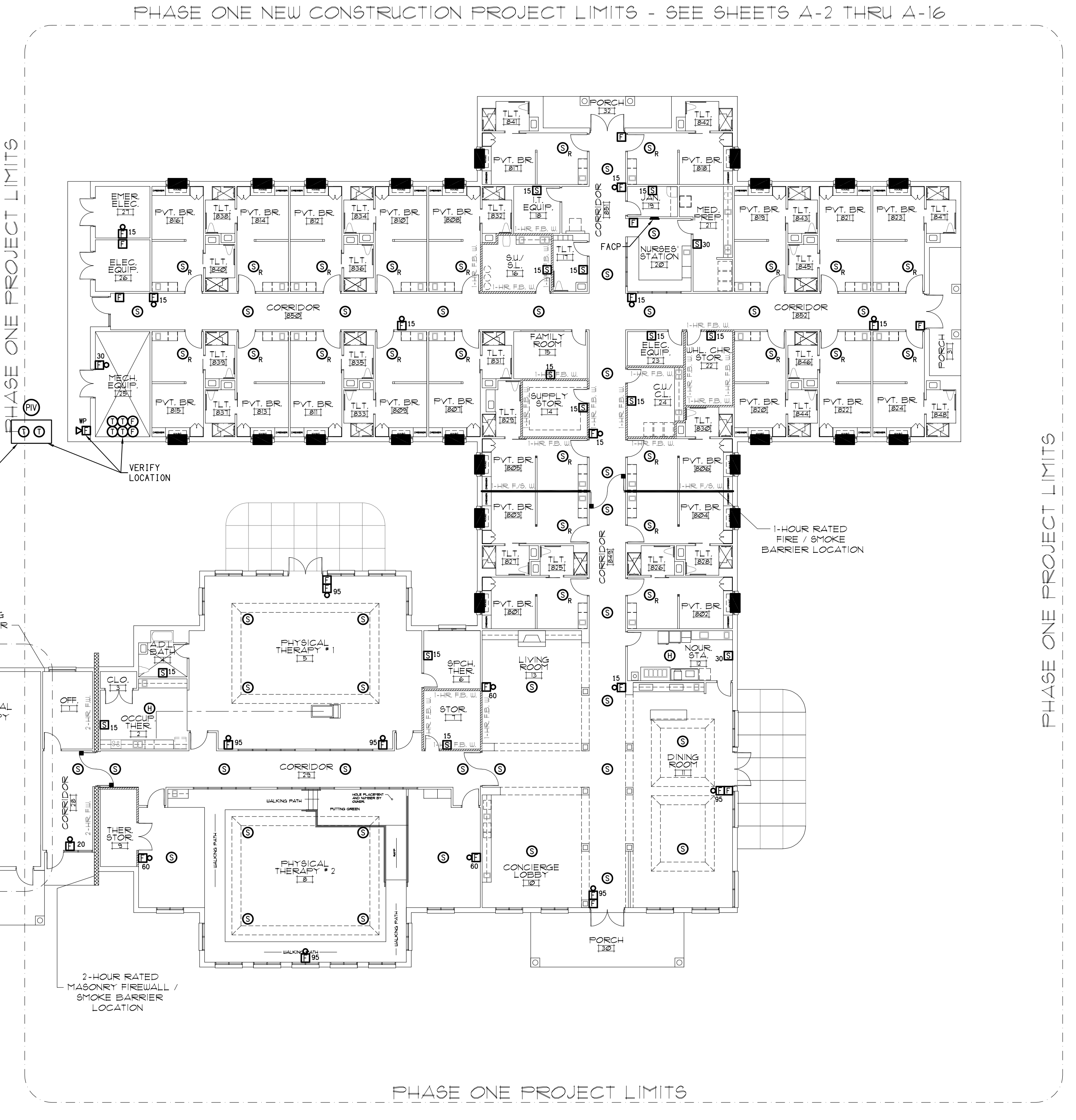
- SURVIVABILITY NOTES:**
- SURVIVABILITY SHALL BE AT THE SECOND LEVEL.
 - WHEN PENETRATING A FIRE/SMOKE WALL PROVIDE A 2 HR PENETRATION BY USING A 1HR CABLE & A METAL CONDUIT SLEEVE.



C FIRE ALARM RISER
SCALE: NTS

SYMBOL	DESCRIPTION
⊠	MANUAL PULL STATION MTD. AT 4' 0" TO CENTER
⊙	SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED
⊠	CHIME/STROBE, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX
⊠	STROBE ONLY, MOUNTED AT 84" TO CENTERLINE OF OUTLET BOX
⊙	HEAT DETECTOR, RATE OF RISE INDICATED IN DEGREES
⊙	PRESSURE OR FLOW SWITCH BY OTHERS
⊙	POST INDICATOR VALVE BY OTHERS
⊙	TAMPERS SWITCH BY OTHERS
⊙	MAGNETIC DOOR HOLDERS
■	FIRE ALARM PANEL
□	AIR HANDLING UNIT BY MECHANICAL CONTRACTOR - SHUTDOWN, SHUTDOWN RELAY & WIRING BY ELECTRICAL CONTRACTOR
⊠	ANNUNCIATOR
⊙	ROOM SMOKE DETECTOR WITH OUT SOUNDER. CONNECT TO NURSE CALL PANEL SEE NOTE 16.
⊙	WEATHERPROOF
⊠	EXTERIOR HORN STROBE
⊠	AHU AIR HANDLING UNIT, SEE MECHANICAL PLANS FOR LOCATIONS
⊠	DOAS DUCTED OUTSIDE AIR SYSTEM, SEE MECHANICAL PLANS FOR LOCATIONS
---	EXISTING SERVICE
---	EXISTING EQUIPMENT

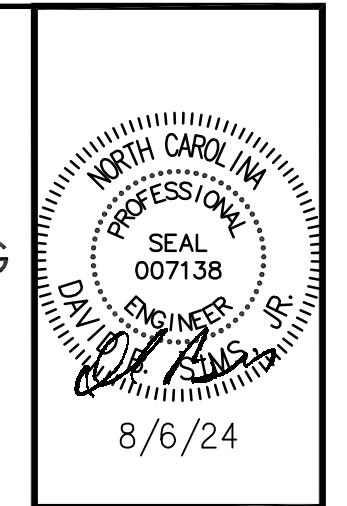
- FIRE ALARM NOTIFICATION**
- THE FIRE ALARM SYSTEM IS REQUIRED TO TRANSMIT AN ALARM AUTOMATICALLY TO THE FIRE DEPARTMENT (OR AGENCY) THAT IS LEGALLY COMMITTED TO SERVE THE AREA IN WHICH THE FACILITY IS LOCATED BY THE MOST DIRECT AND RELIABLE METHOD APPROVED BY THE LOCAL ORDINANCE. PROVIDE DUAL LINE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



A FIRE ALARM PLAN
SCALE: 1/16" = 1'-0"

DSA ENGINEERING

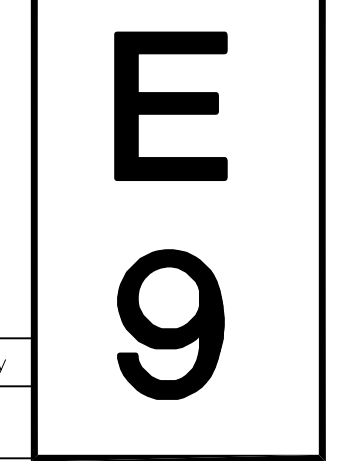
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UNI HEALTH POST-ACUTE CARE
Raleigh, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite 2-L, Wilmington, NC 28403
Architecture Planning Design

24 BED CONCERGE / THERAPY ADDITION
PHASE ONE



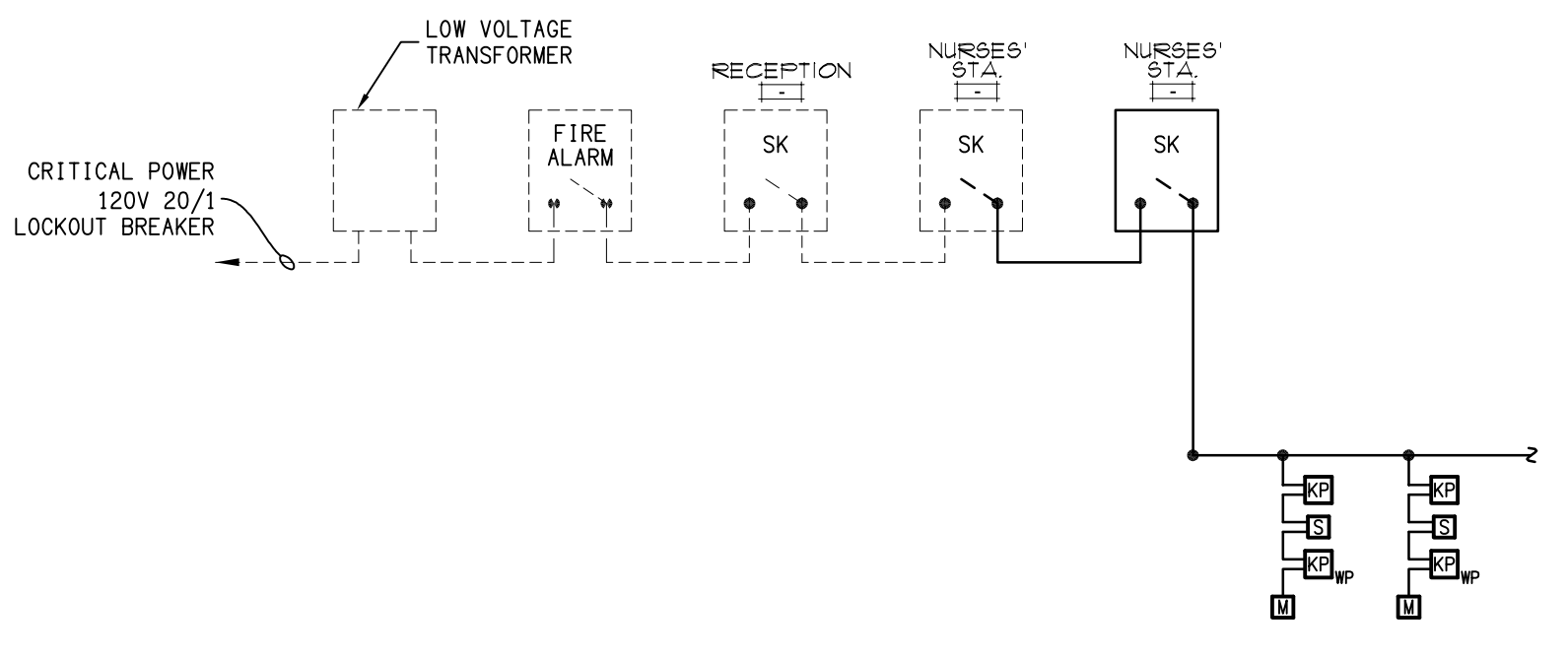
symbol	date	description	by
REVISIONS			

DOOR SECURITY LEGEND	
	DOOR SECURITY CONTROL PANEL
	EMERGENCY SHUTOFF, PROVIDE CLEAR PLASTIC COVER WITH SOUNDER
	CARD READER - INTERIOR
	CARD READER - EXTERIOR, WEATHER PRF
	MAGNETIC DOOR LOCK
	KEY PAD
	EMERGENCY PULL STATION
	DOOR RELEASE
	A1 PHONE STATION
	MOTION SENSOR
	DOME CAMERA - WEATHERPROOF
	WANDERGAURD
	REQUEST TO EXIT

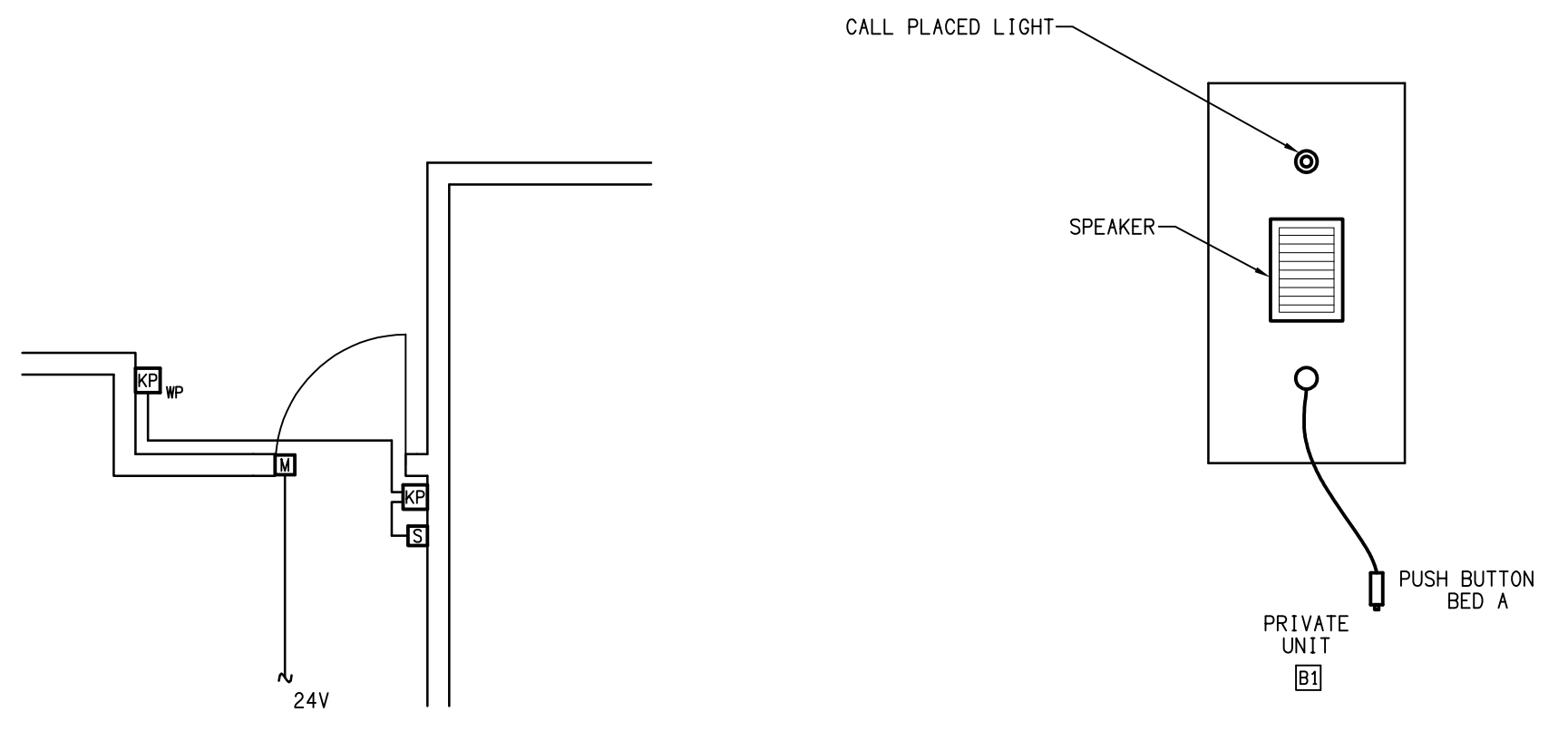
NURSE'S CALL LEGEND	
	NURSE'S CALL, MASTER STATION
	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., ONE STATION
	NURSE'S CALL, BEDSIDE STATION, @ 3'-0" AFF., TWO STATIONS
	NURSE'S CALL, EMERGENCY STATION IN TOILET AND BATHS 3'-6" TO CENTERLINE, WEATHERPROOF
	NURSE'S CALL, DOME LIGHT, MOUNT ON CEILING
	NURSE'S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

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

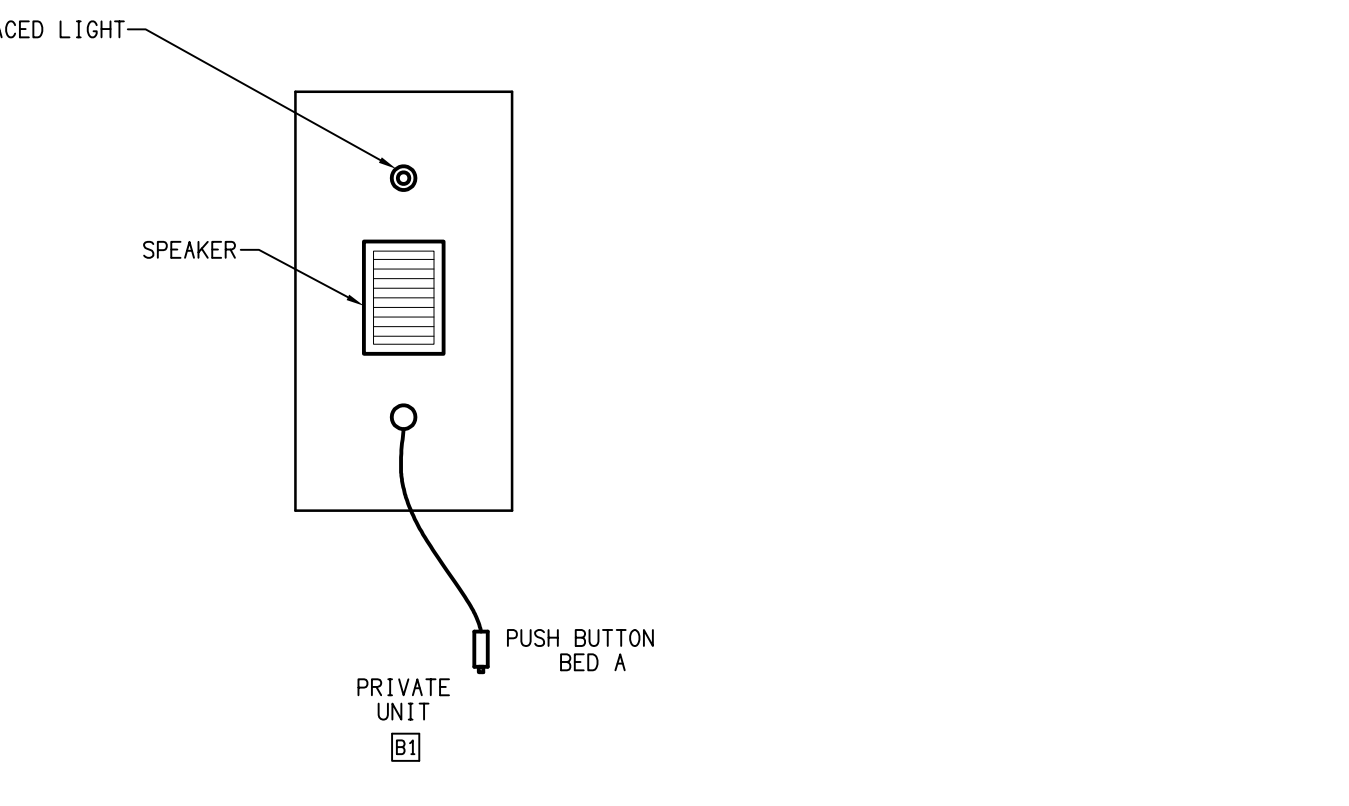
- MAG LOCK NOTES:**
1. ALL MAGNETIC LOCKS SHALL OPEN UNDER THE FOLLOWING CONDITIONS:
 - A. COMMERCIAL POWER FAILURE
 - B. ACTIVATION OF THE FIRE ALARM
 - C. ACTIVATION OF SHUT-OFF SWITCH AT NURSE'S STATION.
 2. INDIVIDUAL DOORS SHALL OPEN UPON:
 - A. KEYPAD OPERATOR LOCATED WITHIN 3'-0" OF DOOR
 - B. SWITCH LOCATED BEHIND GLASS LOCATED WITHIN 3'-0" OF DOOR.
 3. THIS SYSTEM SHALL MEET ALL REQUIREMENTS OF NC STATE CODE.
 4. AT EACH NURSE'S STATION INCLUDE A WIRING DIAGRAM UNDER GLASS. WIRING DIAGRAM SHALL IDENTIFY PANEL AND BREAKER FOR 120V SERVICE.
 5. BOX COVERING THE BREAK GLASS SWITCH SHALL SOUND LOCAL ALARM WHEN LIFTED.
 6. THE INSTALLATION SHALL MEET ALL REQUIREMENTS SPECIAL-- LOCKING ARRANGEMENTS PER STATE BUILDING CODE 407.11.
 7. SYSTEM SHALL BE APPROVED BY THE LOCAL AUTHORITY BEFORE AND AFTER INSTALLATION.
 8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING TO THE CRITICAL POWER SYSTEM WHEREVER 120V CRITICAL POWER IS NEEDED.
 9. THERE SHALL BE ONLY ONE SYSTEM.
 10. PROVIDE CRITICAL POWER BOOSTERS AS NEEDED.



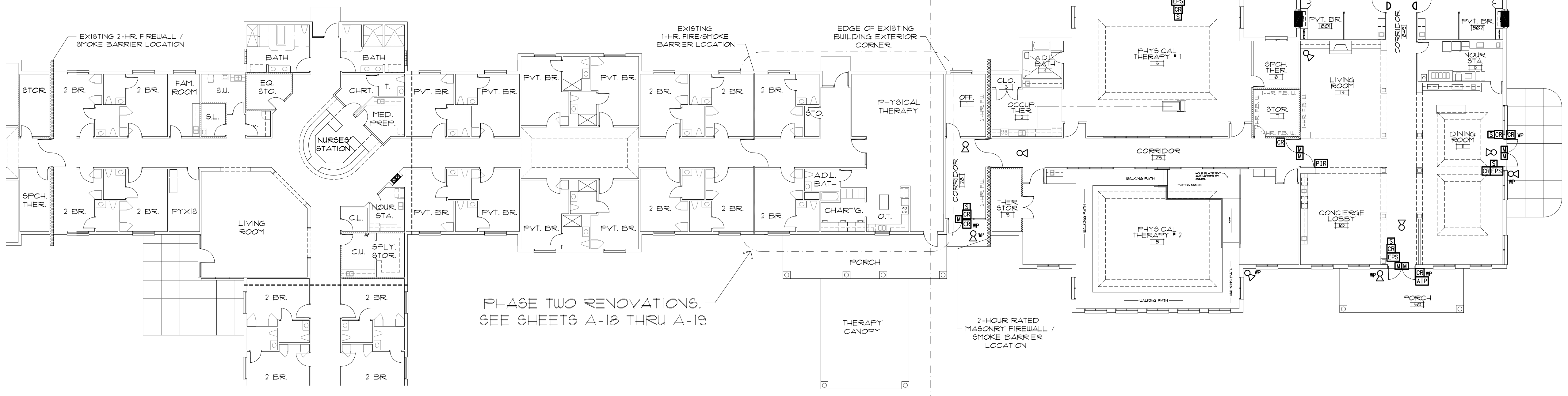
B SCHEMATIC WIRING DIAGRAM
E10 MAGNETIC DOOR LOCK SYSTEM
SCALE: NTS



C MAG LOCKS AT DOOR
E10 SCALE: NTS



D NURSE'S CALL BEDSIDE STATION
E10 SCALE: NTS



A NURSE CALL & DOOR SECURITY PLAN
E10 SCALE: 1/16" = 1'-0"

symbol	date	description	by
REVISIONS			

DSA ENGINEERING

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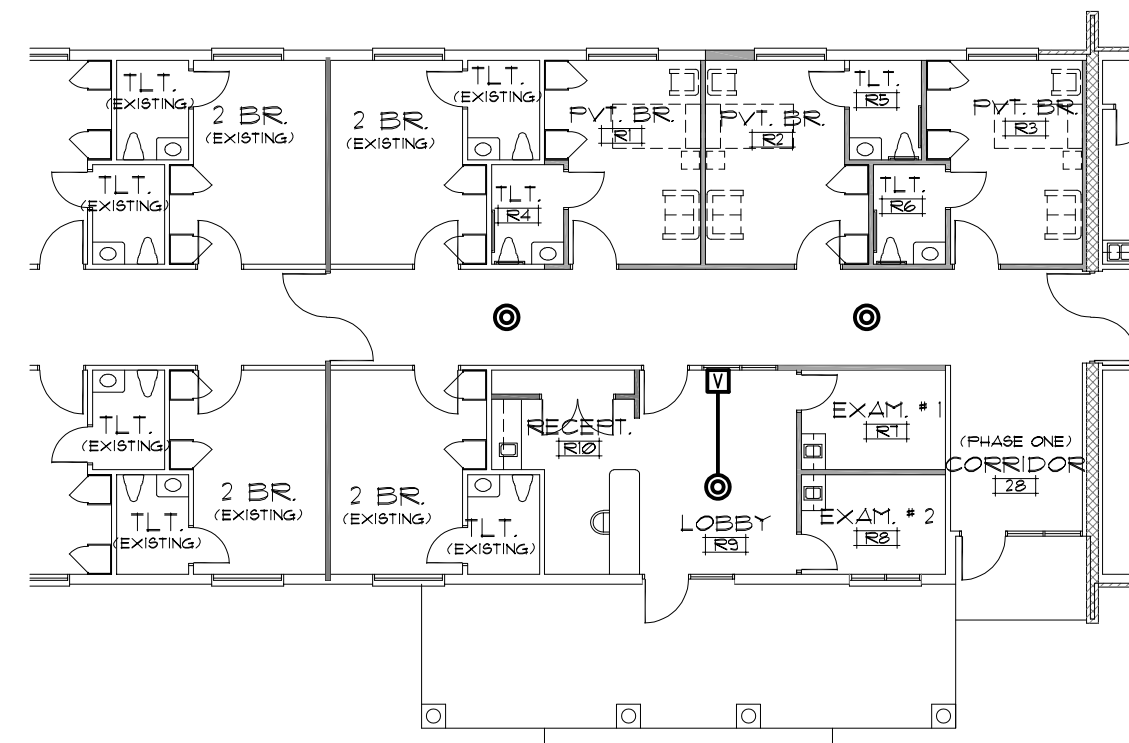
PROFESSIONAL SEAL
DAVID SIMS
ENGINEER
8/6/24

UNI HEALTH POST-ACUTE CARE
Raleigh, North Carolina

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Architecture Planning Design

24 BED CONCERGE / THERAPY ADDITION
PHASE ONE

10



B PHASE 2 PUBLIC ADDRESS SYSTEM PLAN
 E11 SCALE: 1/16" = 1'-0"

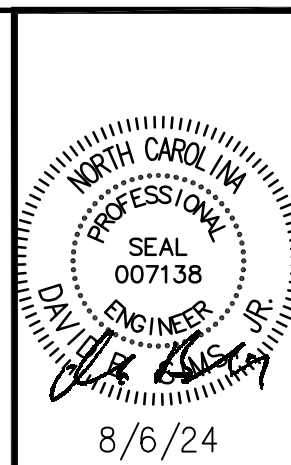
PAGING LEGEND	
SYMBOL	DESCRIPTION
—	P.A. SYSTEM WIRING
⊙	PAGING SPEAKER ASSEMBLY - RECESSED
⊞	VOLUME CONTROL
⊠	AMPLIFIER

- 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
 - CONNECT TO THE EXISTING SYSTEM & PROVIDE NEW AMPLIFIERS THAT WILL HANDLE THE EXISTING & NEW SYSTEMS.

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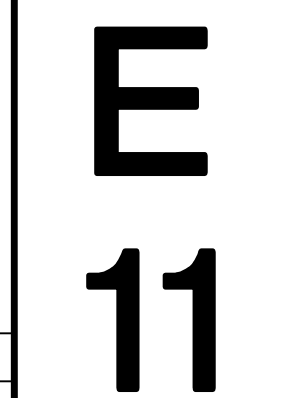
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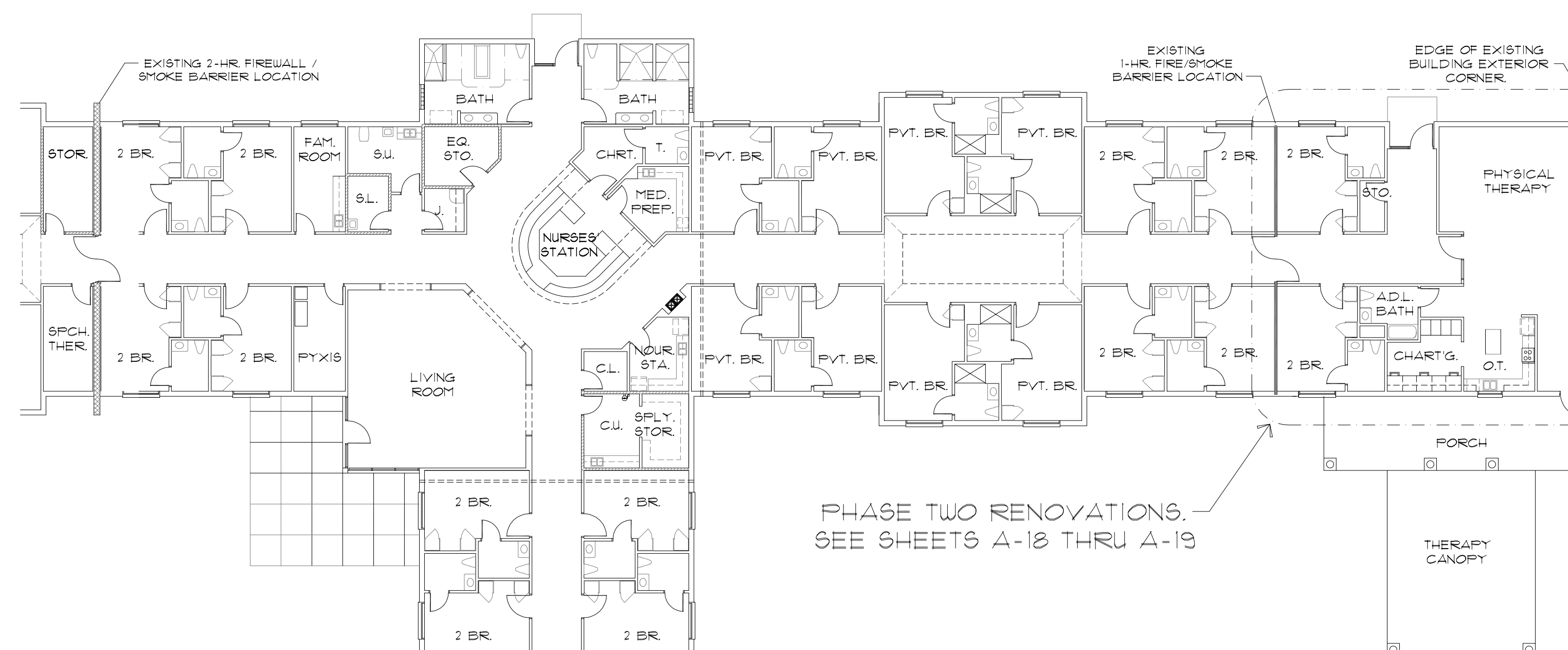
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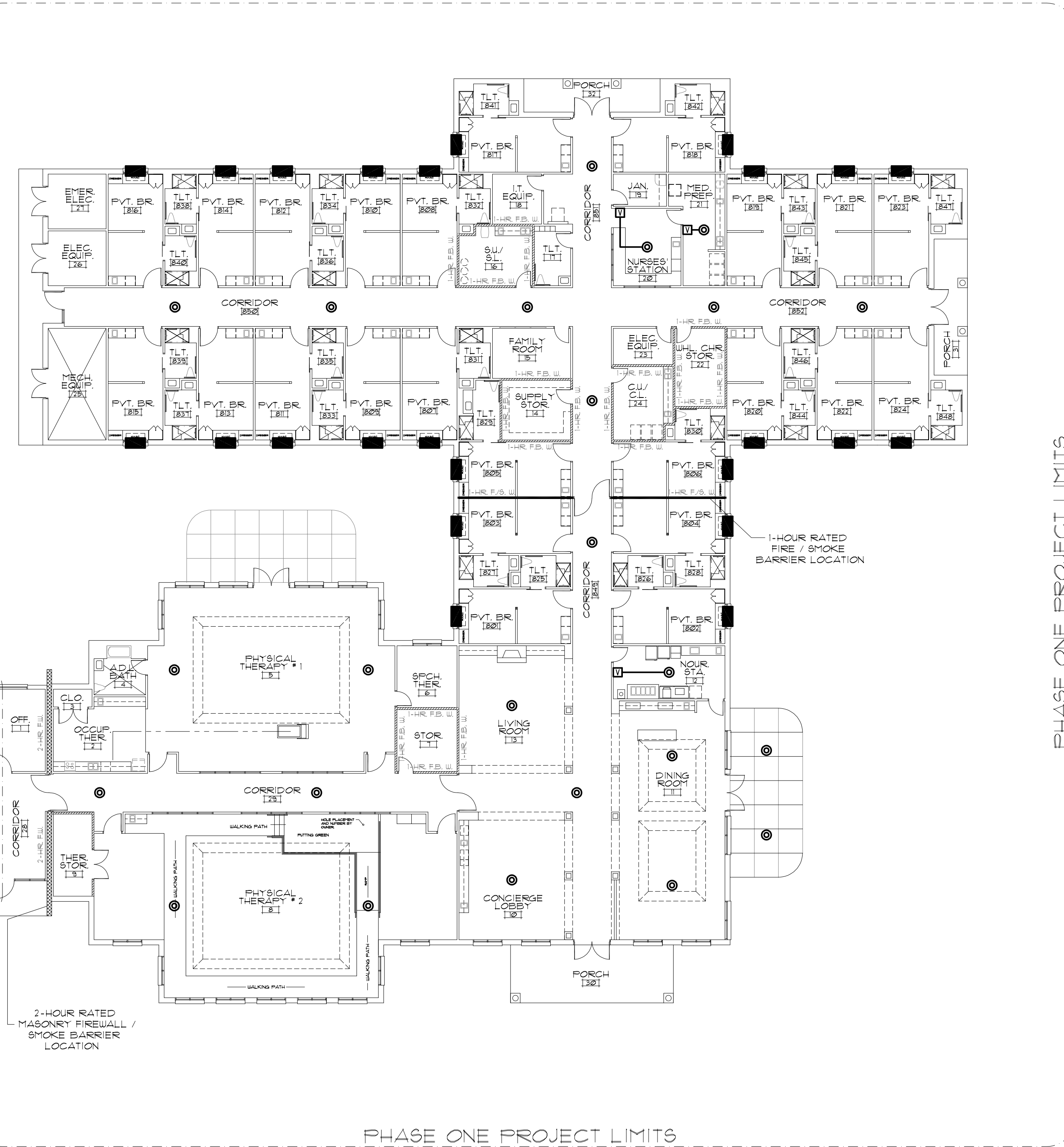
24 BED CONCERGE / THERAPY ADDITION PHASE ONE



PHASE ONE NEW CONSTRUCTION PROJECT LIMITS - SEE SHEETS A-2 THRU A-16



PHASE TWO RENOVATIONS. SEE SHEETS A-18 THRU A-19



A PUBLIC ADDRESS SYSTEM PLAN
 E11 SCALE: 1/16" = 1'-0"

symbol	date	description	by
REVISIONS			

PANEL-MDP															
TYPE		BOLT-ON		MOUNTING SURFACE		ENCLOSURE		NEMA-1		PHASE 3		WIRE 4			
VOLTS		120/208		MAIN		1600A MLO		FRAME		1600A		SHORT CIR.RATING 100,000 RMS SYM MIN			
CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE	LOADING	A	B	C	LOADING	PHASE	A	B	C	DESCRIPTION	CKT. BRK. TRIP	CKT. NO.
1	500/3	PANEL EH	366	366				54	62				PANEL EM	100/3	7
2	400/3	PANEL B	293	325				26	35				PANEL D	100/3	8
3	300/3	PANEL A	201	178					24						9
4	200/3	PANEL EC	144	149											10
5	200/3	PANEL C	104	138											11
6	200/3	SUB PANEL	80	97											12
SUBTOTAL															
TOTAL PANEL LOAD:			AA 1188A	BB 1253A	CC 1103A				NEUTRAL TERMINAL BAR			<input checked="" type="checkbox"/>			
DERATING:			AA -69A	BB -69A	CC -69A				GROUND TERMINAL BAR			<input checked="" type="checkbox"/>			
DERATED LOAD:			AA 1119A	BB 1184A	CC 1034A										

PANEL-GEN															
TYPE		BOLT-ON		MOUNTING SURFACE		ENCLOSURE		NEMA-3R		PHASE 3		WIRE 4			
VOLTS		120/208		MAIN		800A MLO		FRAME		800A		SHORT CIR.RATING 65,000 RMS SYM MIN			
CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE	LOADING	A	B	C	LOADING	PHASE	A	B	C	DESCRIPTION	CKT. BRK. TRIP	CKT. NO.
1	500/3	PANEL EH	366	366				144	149				PANEL EC	200/3	2
3	100/3	PANEL EM	54	62											4
5															6
SUBTOTAL															
TOTAL PANEL LOAD:			AA 564A	BB 577A	CC 529A				NEUTRAL TERMINAL BAR			<input checked="" type="checkbox"/>			
									GROUND TERMINAL BAR			<input checked="" type="checkbox"/>			

DERATING RECEPACLE
 NUMBER OF RECEPACLES: 325
 TOTAL KW: 325 x .183 KW/RECP = 59.5 KW
 -10
 49.5 KW
 X .5
 24.75 KW
 AMPS PER PHASE 24.75KW = 69 AMPS
 TO REMOVE 208x1.73

GENERATOR LOAD			
LOAD	A#	B#	C#
LIFE SAFETY	54	62	33
CRITICAL	144	149	126
HEAT & EQ.	336	366	370
TOTAL DEMAND	534	577	529
INRUSH 15% ±	88	88	88
TOTAL LOAD WITH INRUSH	622	665	617

USE 225 KW GENERATOR
 PROVIDE A FULL LOAD CAPACITY OF 781 AMPS PER PHASE
 GENERATOR MANUFACTURER TO BE KOHLER OR EQUAL.

PANEL-EH															
TYPE		BOLT-ON		MOUNTING SURFACE		ENCLOSURE		NEMA-1		PHASE 3		WIRE 4			
VOLTS		120/208		MAIN		500A MLO		FRAME		600A		SHORT CIR.RATING 42,000 RMS SYM MIN			
CKT. NO.	CKT. BRK. TRIP	DESCRIPTION	PHASE	LOADING	A	B	C	LOADING	PHASE	A	B	C	DESCRIPTION	CKT. BRK. TRIP	CKT. NO.
1	20/2	PTAC - 808	14	14				14	14				PTAC - 815	20/2	2
3															4
5	20/2	PTAC - 810	14	14				14	14				PTAC - 813	20/2	6
7															8
9	20/2	PTAC - 812	14	14				14	14				PTAC - 811	20/2	10
11															12
13	20/2	PTAC - 814	14	14				14	14				PTAC - 809	20/2	14
15															16
17	20/2	PTAC - 816	14	14				14	14				DOAS-10	20/2	18
19															20
21	20/2	PTAC - 807	14	14				14	14				PTAC - 807	20/2	22
23															24
25	/2	SPRINKLER COMP	8	8				188	188				PANEL EHA	250/3	26
27															28
29	20/2	EW-1	10	10				38	201				PANEL EHC	100/3	32
31															30
33	15/2	DOAS-9	10	10				38							34
35															36
37	15/2	DOAS-8	10	10											38
39															40
41	20/1	SPRINKLER CONTROL	3	3					6				FAN F-1	20/1	42
SUBTOTAL															
TOTAL PANEL LOAD:			AA 366A	BB 366A	CC 370A				NEUTRAL TERMINAL BAR			<input checked="" type="checkbox"/>			
									GROUND TERMINAL BAR			<input checked="" type="checkbox"/>			

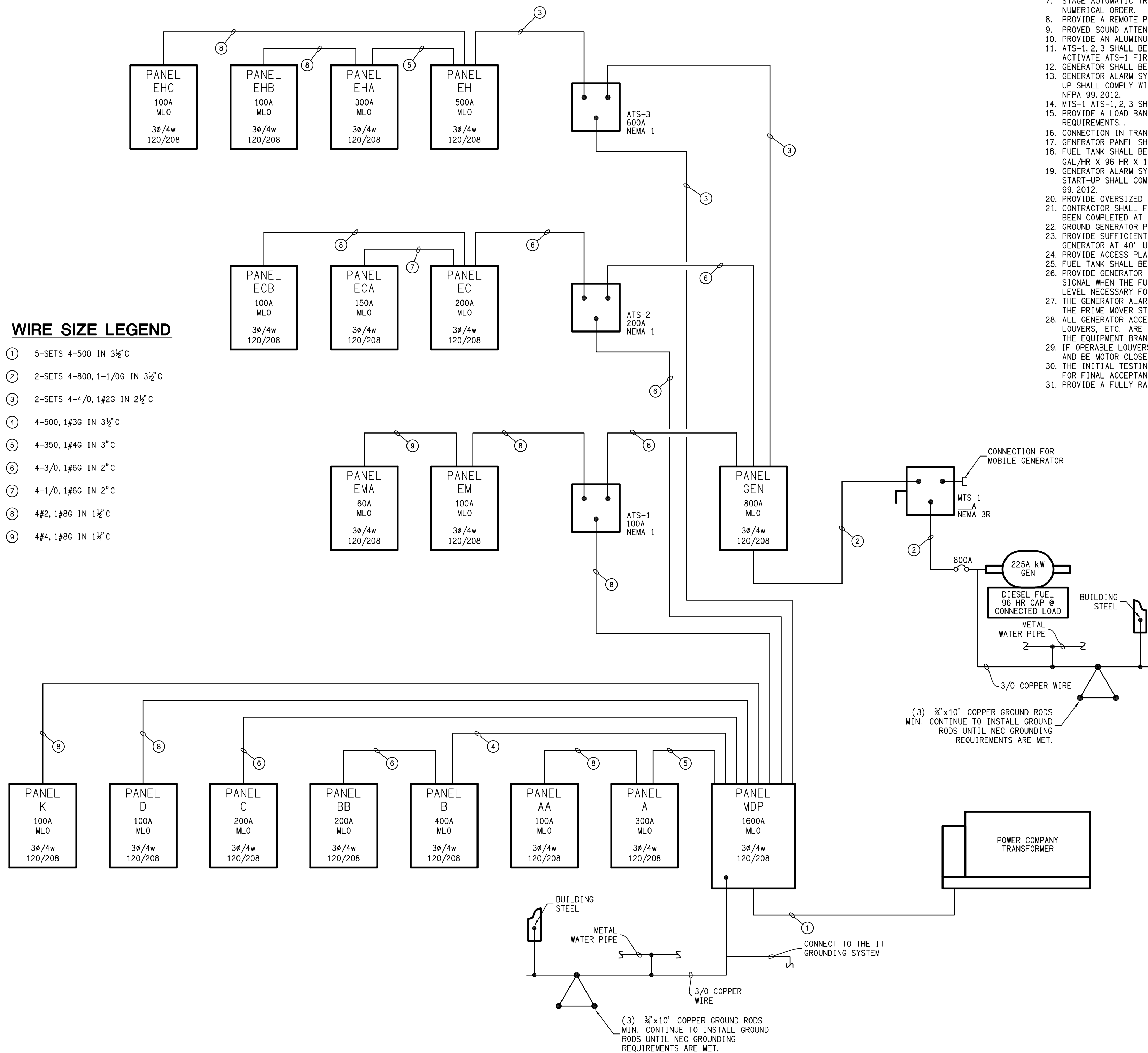
A COORDINATION STUDY SHALL BE SUCCESSFULLY CONDUCTED PER NEC 700.27 & 701.18 SECTIONS FOR THE LIFE SAFETY, CRITICAL AND EQUIPMENT POWER PANELS AND BREAKERS BEFORE THAT EQUIPMENT CAN BE ORDERED. CONTRACTOR SHALL UPGRADE PANELS AND BREAKERS AS NEEDED WITH NO ADDITIONAL COST TO THE OWNER.

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).

WIRE SIZE LEGEND

- 5-SETS 4-500 IN 3/4" C
- 2-SETS 4-800, 1-1/0G IN 3/4" C
- 2-SETS 4-4/0, 1#2G IN 2 1/2" C
- 4-500, 1#3G IN 3 1/2" C
- 4-350, 1#4G IN 3" C
- 4-3/0, 1#6G IN 2" C
- 4-1/0, 1#6G IN 2" C
- #2, 1#8G IN 1 1/2" C
- #4, 1#8G IN 1 1/4" C

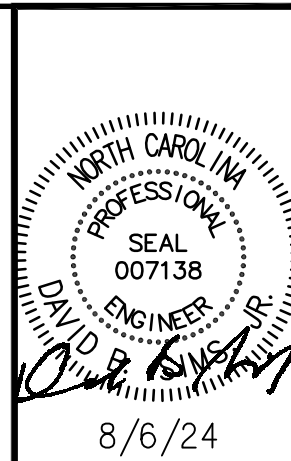


A Power Riser
 E13 SCALE: NTS

symbol	date	description	by
REVISIONS			



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