

HVAC EQUIPMENT ELECTRICAL CONNECTION SCHEDULE														
(ITEM)	MARK	DESCRIPTION	SERVICE	WING	VOLTAGE AND PHASE	MCA	KW	CONNECTION	CONDUIT AND WIRE SIZE	PANEL	CIRCUIT N º.	CIRCUIT BREAKER OR SWITCH/FUSE SIZE		NOTES
1	RTU-1	ROOFTOP UNIT	PHYSICAL THERAPY	CENTRAL	208V-3ø	30	10.8	INTEGRAL D.S.	-	-	-	45A/3P		1
2	RTU-2	ROOFTOP UNIT	LOBBY	CENTRAL	208V-3ø	25.2	9.1	INTEGRAL D.S.	-	-	-	35A/3P		1
3	RTU-3	ROOFTOP UNIT	OFFICE/ACTIVITIES	CENTRAL	208V-3ø	36.5	13.1	INTEGRAL D.S.	-	-	-	50A/3P		1
4	RTU-4	ROOFTOP UNIT	KITCHEN/LAUNDRY	CENTRAL	208V-3ø	38.2	13.7	INTEGRAL D.S.	-	-	-	60A/3P		1
5	ACU-1	SPLIT SYSTEM HEAT/FAN UNIT	DINING LOUNGE	NORTH	120V-1ø	13.9	1.7	SNAP SWITCH	2#14AWG, 1#14AWG(G) IN 3/4" C	CW	41	15A/1P		-
6	ACU-2	SPLIT SYSTEM HEAT/FAN UNIT	SPA,CORRIDORS,NURSE,CHARTS	NORTH	120V-1ø	13.9	1.7	SNAP SWITCH	2#14AWG, 1#14AWG(G) IN 3/4" C	CW	42	15A/1P		-
7	ACU-3	SPLIT SYSTEM HEAT/FAN UNIT	DINING LOUNGE	EAST	120V-1ø	13.9	1.7	SNAP SWITCH	2#14AWG, 1#14AWG(G) IN 3/4" C	-	-	15A/1P		-
8	ACU-4	SPLIT SYSTEM HEAT/FAN UNIT	SPA,CORRIDORS,NURSE,CHARTS	EAST	120V-1ø	13.9	1.7	SNAP SWITCH	2#14AWG, 1#14AWG(G) IN 3/4" C	-	-	15A/1P		-
19	CU-1	SPLIT SYSTEM CONDENSING UNIT	DINING LOUNGE	NORTH	208V-3ø	21	2.5	-	-	CW	-	35A/3P		3
20	CU-2	SPLIT SYSTEM CONDENSING UNIT	SPA,CORRIDORS,NURSE,CHARTS	NORTH	208V-3ø	18	2.2	-	-	CW	-	30A/3P		2
21	CU-3	SPLIT SYSTEM CONDENSING UNIT	DINING LOUNGE	EAST	208V-3ø	21	2.5	-	-	-	-	35A/3P		3
22	CU-4	SPLIT SYSTEM CONDENSING UNIT	SPA,CORRIDORS,NURSE,CHARTS	EAST	208V-3ø	18	2.2	-	-	-	-	30A/3P		2
9	MAU-1	OUTDOOR MAKE-UP AIR UNIT	KITCHEN HOOD #1	CENTRAL	208V-3ø	-	-	INTEGRAL D.S.	-	-	-	-		-
10	PTAC A	PACKAGED TERMINAL AIR CONTIONING UNIT	PRIVATE ROOM	-	208V-1ø	15	1.8	NEMA6-20R	-	-	-	15A/2P		4
11	PTAC B	PACKAGED TERMINAL AIR CONTIONING UNIT	SEMI-PRIVATE ROOM	-	208V-1ø	20	2.4	NEMA6-20R	-	-	-	20/2P		4
12	EDH-1	ELECTRIC DUCT HEATER	CONFERENCE & LOBBY	CENTRAL	208V-1ø	-	2	INTEGRAL D.S.	-	-	-	20A/1P		-
13	EDH-2	ELECTRIC DUCT HEATER	ACTIVITY AND OFFICES	CENTRAL	208V-1ø	-	3.5	INTEGRAL D.S.	-	-	-	20A/1P		-
14	EH-1	ELECTRIC HEATER	CORRIDOR N03	NORTH	208V-1ø	-	3	INTEGRAL D.S.	-	-	-	20A/1P		-
15	EH-2	ELECTRIC HEATER	CORRIDOR N02	NORTH	208V-1ø	-	3	INTEGRAL D.S.	-	-	-	20A/1P		-
16	EH-3	ELECTRIC HEATER	CORRIDOR N03	NORTH	208V-1ø	-	3	INTEGRAL D.S.	-	-	-	20A/1P		-
17	EH-4	ELECTRIC HEATER	CORRIDOR N02	NORTH	208V-1ø	-	3	INTEGRAL D.S.	-	-	-	20A/1P		-
18	EH-5	ELECTRIC HEATER	CORRIDOR C01	CENTRAL	208V-1ø	-	4	INTEGRAL D.S.	-	-	-	20A/1P		-

HVAC EQUIPMENT ELECTRICAL CONNECTION SCHEDULE GENERAL NOTES:

1. THE E.C. SHALL VERIFY ALL NEW EQUIPMENT SPECIFICATIONS (VOLTAGE, OVERCURRENT PROTECTION, ETC.) WITH M.C. PRIOR TO PLACING PURCHASE ORDER FOR DISTRIBUTION EQUIPMENT AND ROUGH-IN. THE E.C. SHALL ALSO BE RESPONSIBLE FOR PROVIDING ALL CONNECTIONS, PROPER NEMA RECEPTACLE CONFIGURATIONS, DEVICES, SAFETY SWITCHES, ETC. LISTED ON THIS SCHEDULE, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

HVAC EQUIPMENT ELECTRICAL CONNECTION SCHEDULE CODED NOTES:

- INTEGRAL DISCONNECT SWITCH
- PROVIDE 30A/3P/NF NEMA 3R SAFETY SWITCH
- PROVIDE 60A/3P/NF NEMA 3R SAFETY SWITCH
- CORD & PLUG BY HVAC CONTRACTOR, RECEPTACLE MATCHING PLUG BY E.C. PROVIDE D.E. FUSES FOR FUSE HOLDER KIT. REFER TO DRAWINGS E-2.1 & E-2.2 FOR ROOM SPECIFIC CIRCUIT NUMBER
- XXX
-
- CONTROLLED BY TIME CLOCK
- CONTROLLED BY OCCUPANCY SENSER OR LIGHT SWITCH CONTINUOUS OPERATION
- PROVIDE MANUAL MOTOR STARTER (S) FOR THIS UNIT
- SEE SINGLE LINE DIAGRAM ON DRAWING NUMBER E-8.2
- PROVIDE FAN WHIPS LONG ENOUGH TO PERMIT FAN MOTOR TO BE TURNED UP FOR ROOF MOUNTED EXHAUST FANS EF-1 THROUGH EF-8.




















EXHAUST FAN ELECTRICAL CONNECTION SCHEDULE													
(ITEM)	MARK	DESCRIPTION	SERVICE	WING	VOLTAGE AND PHASE	HP	KW	CONNECTION	CONDUIT AND WIRE SIZE	PANEL	CIRCUIT Nº.	CIRCUIT BREAKER OR SWITCH/FUSE SIZE	NOTES
1	EF-1	EXHAUST FAN	PRIVATE RM,UTIL.,LAV,SPA	NORTH	120V-1ø	1/6	0.7	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	CW	22	15A/1P	-
2	EF-2	EXHAUST FAN	PRIVATE/SEMI-PRIV. RMS	NORTH	120V-1ø	1/4	0.8	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	W	12	15A/1P	-
3	EF-3	EXHAUST FAN	JAN & LAV	CENTRAL	120V-1ø	1/6	0.7	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	-
4	EF-4	EXHAUST FAN	MENS,WOMENS,LAV,BATH	CENTRAL	120V-1ø	1/4	0.8	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	6,9
5	EF-5	EXHAUST FAN	PRIVATE/SEMI-PRIV. RMS	EAST	120V-1ø	1/4	0.8	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	6,9
6	EF-6	EXHAUST FAN	PRIVATE RM,UTIL.,LAV,SPA	EAST	120V-1ø	1/6	0.4	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	6,9
7	EF-7	EXHAUST FAN	KITCHEN HOOD	CENTRAL	120V-1ø	1	2	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	7
8	EF-8	EXHAUST FAN	DISHWASHER HOOD	CENTRAL	120V-1ø	0.18	0.7	W.P. SWITCH	2#12AWG,1#12AWG(G) IN 3/4" C	C	32	20A/1P	8
9	EF-9	EXHAUST FAN	C25 HAZ	CENTRAL	120V-1ø	-	0.1	W.P. SWITCH	2#12AWG,1#12AWG(G) IN 3/4" C	C	32	20A/1P	9
10	EF-10	EXHAUST FAN	C26 OXYGEN	CENTRAL	120V-1ø	-	0.1	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	-
11	EF-11	EXHAUST FAN	IT CLOSET	NORTH	120V-1ø	-	0.1	W.P. SWITCH	2#12AWG,1#12AWG(G) IN 3/4" C	CW	19	20A/1P	-
12	EF-12	EXHAUST FAN	IT CLOSET	EAST	120V-1ø	-	0.1	W.P. SWITCH	2#14AWG,1#14AWG(G) IN 3/4" C	-	-	-	-

EXHAUST FAN ELECTRICAL EQUIPMENT CONNECTION SCHEDULE NOTES:

1. THE E.C. SHALL VERIFY ALL NEW EQUIPMENT SPECIFICATIONS (VOLTAGE, OVERCURRENT PROTECTION, ETC.) WITH M.C. PRIOR TO PLACING PURCHASE ORDER FOR DISTRIBUTION EQUIPMENT AND ROUGH-IN. THE E.C. SHALL ALSO BE RESPONSIBLE FOR PROVIDING ALL CONNECTIONS, PROPER NEMA RECEPTACLE CONFIGURATIONS, DEVICES, SAFETY SWITCHES, ETC. LISTED ON THIS SCHEDULE, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

HVAC EQUIPMENT ELECTRICAL CONNECTION SCHEDULE CODED NOTES:

- INTEGRAL DISCONNECT SWITCH
- PROVIDE 30A/3P/NF NEMA 3R SAFETY SWITCH
- PROVIDE 60A/3P/NF NEMA 3R SAFETY SWITCH
- CORD & PLUG BY HVAC CONTRACTOR, RECEPTACLE MATCHING PLUG BY E.C. PROVIDE D.E. FUSES FOR FUSE HOLDER KIT. REFER TO DRAWINGS E-2.1 & E-2.2 FOR ROOM SPECIFIC CIRCUIT NUMBER
- XXX
-
- CONTROLLED BY TIME CLOCK
- CONTROLLED BY OCCUPANCY SENSER OR LIGHT SWITCH CONTINUOUS OPERATION
- PROVIDE MANUAL MOTOR STARTER (S) FOR THIS UNIT
- SEE SINGLE LINE DIAGRAM ON DRAWING NUMBER E-8.2
- PROVIDE FAN WHIPS LONG ENOUGH TO PERMIT FAN MOTOR TO BE TURNED UP FOR ROOF MOUNTED EXHAUST FANS EF-1 THROUGH EF-8.

LIGHTING FIXTURE SCHEDULE				
TYPE	FIXTURE		DESCRIPTION	CATALOG #
	LAMP	WATTS		
A 	LED -K 5,300L	49W	2'X4' LAY-IN GRID CEILING MOUNT, TROFFER, 120V, FIXED OUTPUT DRIVER.	COLUMBIA LJT24-35HLC- FSA12.125-EU
B 	LED 3500K 5,300L	47W	2'X4' LAY-IN GRID CEILING MOUNT, 120V, 0-10V DIMMING.	COLUMBIA LCAT24- 35HLC-EDU
C 	LED 3500K 3,500L	35W	2'X2' LAY-IN GRID CEILING MOUNT, 120V, 0-10V DIMMING.	COLUMBIA LCAT22- 35HLC-EDU
D 	LED 3500K 4,908L	43W	WRAPAROUND, CEILING SURFACE MOUNTED, 120V, FIXED OUTPUT DRIVER.	COLUMBIA LAW4-35ML-EU
E 	LED 3500K 3,633L	43W	SLIM WALL MOUNTED, WHITE DIFFUSER, (2)F32/T8/SP35 LAMPS, 120V, ELECTRONIC BALLAST.	COLUMBIA W4-232-EU -LCO-LSW-PAF
F 	LED 35K 1,500L	26W	LED 6" RECESSED OPEN DOWNLIGHT, 120V, 0-10V DIMMING	PRESCOLITE LF6LEDG4 -6LFL6DG64 35KWHWT
G 	LED 35K 1,100L	15W	LED 4" RECESSED OPEN DOWNLIGHT, 120V, 0-10V DIMMING, WHITE FINISH.	PRESCOLITE LF4LEDG4 -4LFL4DG64 35KWHWT-B6-DMI
H 	LED 35K 2,000L	27W	LED 4" RECESSED OPEN DOWNLIGHT, 120V, 0-10V DIMMING, DAMP LOCATION RATED, BLACK FINISH.	PRESCOLITE LFALEDG4 -4LFL4DG64 35KBLIP68-B6
K 	LED 3,000K 940L	20.8W	ECLIPSE 1 LIGHT, 8" TALL, WALL SCONCE WITH SATIN WHITE QUARTER SPHERE, 120V, DIMMABLE, ANTIQUE BRONZE FINISH, (1) CREE LA209C1B 2700K.	PROGRESS P7175-20
L1 	LED 2,700K 2,445L	29W	3-LIGHT, SEMI-FLUSH CEILING FIXTURE, SUSPENDED, ANTIQUE BRONZE FINISH, STATIN WHITE GLASS, DIMMING, 120V, (3) CREE LA209C1B 2700K.	PROGRESS P3484-20
L2 	LED ----K ----L	MAX	TBD, 120V, DIMMABLE.	TBD
M 	LED 3,000K 513LM/FT	5.8W/FT	LINEAR LED STRIP LIGHTING, 24V POWER SUPPLY NEEDED EVERY 35FT. 80FT NEEDED.	LED LIGHTING INC TUHL1200-WW -24V-80-(2) ø/52 FEET
N 	LED ----K 6,000L	67W	8" HIGH LUMEN LED DOWNLIGHT AND WALL WASH, RECESSED, NOMINAL 45 DEGREE CUT-OFF, CLEAR LENS OVER LED, 120V, 0-10V DIMMING, DAMP LOCATION RATED.	PRESCOLITE MOBLED8L35K8 -8MO12L WFL45-CL-B6
P 	LED 3,000K 2,400L	34W	SPAULDING LIGHTING, LED TRAPEZOID WALL PACK, TYPE III DISTRIBUTION, BRONZE FINISH, PROGRAMMABLE MOTION CONTROL, 120V.	HUBBELL TRP-30L3K-035 -3-U-DB-PC-SCP
R1 	LED 2700K ----L	10W	ONE LIGHT FLUSH MOUNT WITH DOME SHAPED ETCHED GLASS, SOLID TRIM AND DECORATIVE KNOBS. CENTER LOCK-UP, 11.38", ANTIQUE BRONZE, 120V, DIMMABLE, (1)CREE LA206C1 2700K.	PROGRESS P3924-20EUL
R2 	LED 3000LK ----L	17W	5.5" LED FLUSH MOUNT, WET LOCATION RATED, 120V, DIMMABLE.	PROGRESS P8240-28 /30K9-AC1
R3 	LED ----K ----L	27W	OASIS TWO-LIGHT BATH, (2)F17/T8/SP35/ECO, 120V, HPF ELECTRONIC, INSTALLED ABOVE MIRROR.	PROGRESS P2114-60EB
R4 	LED ----K ----L	29W	TWO-LIGHT CLOSE-TO-CEILING, SATIN WHITE GLASS, ANTIQUE BRONZE, 120V, DIMMABLE, (2) CREE LA206C1 2700K.	PROGRESS P3480-20
X1 	LED ----K ----L	3.7W	SURFACE MOUNT EDGE LIT LED EXIT SIGN, AC POWER ONLY, 120V, CEILING, WALL OR END MOUNT DEPENDING ON LOCATION, RED LETTER COLOR, DIRECTIONAL ARROWS BASED ON LOCATION.	DUAL LITE LESRWA

LIGHTING FIXTURE SCHEDULE NOTES:

- THE E.C. SHALL COORDINATE ALL COLORS, FINISHES, LENGTHS, AND TRIMS OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS, EXISTING CONDITIONS, ETC. AND INCLUDE APPROPRIATE TRIM (LAY-IN, DRYWALL, ETC.) IN BASE BID. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED THAT THIS COORDINATION WITH THE ARCHITECT HAS BEEN COMPLETED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE LACK OF THIS COORDINATION.

LIGHTING FIXTURE, MECHANICAL EQUIPMENT AND EXHAUST FAN CONNECITON SCHEDULE

SCALE: NO SCALE



DATE:
PRICING SET:
03/11/24

NEW 90 BED SKILLED NURSING FACILITY
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONTA, FRANKLIN COUNTY, VIRGINIA

PRELIMINARY
NOT FOR CONSTRUCTION

DSCA PROJECT NO.
23046

E0.1

2024-03-11 - 1/8" = 1'-0"

ELECTRICAL SPECIFICATIONS

SECTION 16010

PART 1 – GENERAL

1.01 GENERAL

A. The provisions of the Instructions to Bidders, General Conditions, Supplementary Conditions, Alternates, Addenda, and Division 1 are a part of this Specification. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. Contractors and Sub-contractors shall examine same as well as other Divisions of the Specifications which affect work under this Division.

B. Material or labor which is not indicated on the Drawings or Specifications, but which is obviously necessary to complete the work (and is usually included in similar work), shall be provided. Drawings and Specifications are to be considered as supplementing each other. Work specified but not indicated, or indicated but not specified, shall be provided as though mentioned in both Specifications and Drawings.

C. These Specifications establish quality standards of materials and equipment to be provided. Specific items are identified by Manufacturer, Trade Name or Catalog Designation. The Contractor shall submit his base bid price based upon specified equipment described herein and as detailed on drawings and associated contract documents.

1.02 WORK INCLUDES

A. "Contractor" as used within the Electrical Specifications shall refer to the Electrical Contractor.

B. "Equal" or "Equivalent" shall be understood to mean of the same quantity, size, number, value, degree, intensity and the items are similar in all respects. The Engineer will make the final decision of acceptance of these items.

C. "Contract Documents" shall be understood to encompass drawings and specifications for architectural, structural, civil, mechanical, electrical and all other pertinent disciplines.

D. "Provide" shall be interpreted to mean the Contractor shall furnish all labor, materials, equipment and supplies including tests and inspections necessary to install, connect, apply, erect, construct, and place in operating condition.

E. "Furnish" shall be interpreted to mean the Contractor shall supply and deliver to the job site specified material, equipment, and supplies.

F. "Install" shall be interpreted to mean assembling, placing, erecting, wiring and to make fully operational.

G. The Contractor shall furnish all materials and do all work in accordance with these specifications, and any supplementary documents provided by the Architect. The work shall include everything shown on the drawings and/or required by the specifications as interpreted by the Architect, regardless of where such information is indicated (Architecture, HVAC, Plumbing, Fire Protection, etc.). All work and materials furnished and installed shall be new and of the best quality and workmanship. The Contractor shall cooperate with the Architect so that no error or discrepancy in the Contract Documents shall cause defective materials to be used or poor workmanship to be performed.

H. Visit the site of the work and become familiar with conditions affecting the installation. The contractor shall ascertain the location of existing structures, utilities, equipment, etc. that may affect contract work and advise the engineer no later than five (5) working days prior to bid due date. Submission of a proposal shall presuppose knowledge of such conditions and no additional compensation shall be allowed where extra labor or materials are required because of ignorance of these conditions.

I. The contractor shall advise the architect and/or engineer of any code violations occurring in the Contract Documents prior to award of contract. In case of conflict between the Contract Documents and the requirements of any Code or Authorities having jurisdiction, the most stringent requirements of the aforementioned shall govern.

J. Include all labor, material, equipment, services, permits and certificates of inspection necessary for the proper completion of all electrical work. Items omitted, but necessary to make the electrical system complete and workable, shall be understood to form part of the work.

K. It is the purpose of the Electrical Drawings to indicate the approximate location of all equipment, outlets, etc. Ascertan exact locations and arrange work accordingly. The right is reserved to effect reasonable changes in the location of outlets up to the time of routing-in with out additional cost to the Owner. Changes in location of outlets or equipment necessitated by interference with the work of other trades shall be made only with the consent of the Architect's or Owner's representative and at no additional cost.

L. Work shall include, but not be limited to, the following general systems and equipment:

- Feeders and panel boards
- Disconnect switches
- Lighting and controls
- Receptacles
- Fire alarm
- Extension/modification of the existing power distribution system

M. All materials and workmanship shall comply with all applicable Codes, Specifications, Local and State Ordinances, Industry Standards, and Utility Company regulations and latest editions. In case of difference between Building Codes, State Laws, Local Ordinances, and the Contract Documents, the Contractor shall promptly notify the Architect in writing of any such difference.

N. The Electrical Design is based on the National Electrical Code. Work shall be installed in accordance with the provisions of the code as interpreted by the local board having jurisdiction, as well as any further modifications or regulations of local or state authorities. The Contractor shall include in his bid the cost of providing materials and equipment necessary to satisfy local or regional codes.

O. Provisions of the latest revisions to the Federal Occupational Safety and Health Act (OSHA) shall be satisfied.

P. Secure and pay for all permits and inspections required electrical work. Turn over all certificates of approval, by governing agencies, to the Architect for transmittal to Owner before payment is made for the work.

Q. Give the proper authorities notices as required by law relative to the work in his charge. Comply with the regulations regarding temporary enclosures, obstructions or excavations and pay all legal fees involved.

R. The Electrical Contractor shall provide temporary electrical services adequate in size and characteristics, for use by all trades on site during project construction.

S. After installation but prior to energization, perform tests for grounds, short circuits and proper function. Faults in the installation shall be corrected.

T. Insulation resistance tests shall be made on the electrical system with not less than 1000V D.C. for 30 seconds using an approved megohmmeter (Biddle Megger or equal). Also, complete resistance/continuity tests on the grounding system.

U. The Contractor shall torque down all accessible bolts and perform rotation tests for all distribution and utilization equipment.

V. At each test site, the Contractor shall provide any test control power necessary to perform these tests.

W. Conduct such tests and adjustments of the equipment as required by the Architect as necessary to verify performance requirements. Submit data to the Architect.

X. Before final payment, demonstrate to the Owner's satisfaction the proper operation of each of the systems comprising this Contract.

Y. Instruct the Owner's maintenance personnel in the operation and maintenance of all electrical equipment and controls.

Z. CLEANING AND FINISHING

A. After all tests have been completed, clean all equipment leaving everything in working order at the completion of this work.

B. All debris created by the execution of this work shall be removed.

C. CUTTING, PATCHING AND PAINTING

A. Avoid cutting into the work of others by using sleeves, inserts, chases and similar items necessary for the installation.

B. Except where otherwise specified or noted on drawings, do all cutting and patching of the building as required to install sleeves, inserts, conduits and electrical equipment. Patching shall be done by mechanics as well as the various trades. Work shall match the general construction work. All cutting shall be done in a manner to retain the structural integrity of the unit being cut. Where existing equipment is removed or relocated, patch to match the existing building finishes (walls, ceilings, floors, etc.).

C. Painting shall be provided under other Divisions of this Specification unless otherwise specified.

1.06 COORDINATION WITH OTHER TRADES

A. The Contract Drawings are diagrammatic only intending to show general runs and locations of conduit, equipment, terminals and accessories and not necessarily showing all required offsets, details and accessories and equipment to be connected. Take all field measurements necessary and assume responsibility for their accuracy. All work shall be accurately laid out with other Trades to avoid conflicts and to obtain a neat and workmanlike installation that will afford maximum accessibility for operation, maintenance and headroom.

B. Keep fully informed of the progress of the general construction. Install work that is to be concealed within the building construction in sufficient time to secure proper location without delay to the work of other trades. All conduit and outlet boxes concealed in masonry construction shall be installed during wall construction. Attend electrical work during the progress of building-in to prevent misalignments and damages to the electrical work.

C. The Contractor shall be responsible for coordinating with other trades (mechanical, plumbing, etc.), and shall verify any equipment and device voltage, phase and ampacity specifications. They shall furnish and install all necessary wiring, protective devices, etc., as recommended by the manufacturer and as required for the correct and proper operation of the installed equipment.

D. Examine the work of other trades when their work comes in contact with or is covered by this work. Do not attach to, cover up, or finish against any defective work, or install work in a manner which will prevent proper installation of the work of other trades.

E. All outlets, switches and receptacles shall be centered with regard to paneling, trim equipment, etc., and shall line up with either bottom or top of masonry courses.

F. Locate all electrical equipment, devices, equipment, etc. in the field in conjunction with drawings and building engineer. Coordinate routing of all feeders, conduit runs, pullboxes, etc., to avoid conflicts with existing ductwork, plumbing, and structural components.

1.07 GUARANTEE AND WORKMANSHIP

A. All materials and workmanship provided under the contract shall carry the standard warranty against all defects in material and workmanship. Any fault due to defective or improper material, equipment, workmanship or design which may develop shall be made good, forthwith, by and at the expense of the Contractor for the work under his contract, including all other damage done to areas, materials and other systems resulting from this fault.

B. Manufacturers shall provide their standard guarantees for work under the Electrical Trades. However, such guarantees shall be in addition to and not in lieu of all other liabilities that the manufacturer and the Contractor may have by law or by other provisions of the Contract Documents.

C. Workmanship shall be in accordance with the best practices of the trade. Journeymen electricians under the supervision of a competent foreman shall install electrical work.

1.08 SUBMITTALS

A. Submit drawings and wiring diagrams in accordance with Division 1 on all items of equipment provided for review by the Engineer. These shall include, but not be limited to, the following:

- Lighting and controls
- Disconnect switches
- Panelboards and transformer
- Fire alarm devices

B. The submittals will be reviewed only for general compliance and not for dimensions, quantities, etc. The submittals that are returned shall be used for procurement. The responsibility of correct procurement remains solely with the Contractor. The submittal review shall not relieve the Contractor of responsibility for errors or omissions and deviations from the contract requirements.

C. The Contractor shall insure submittals bear the Contractors' dated approval stamp and indicate all options. If the submittal shows variations from the requirements of the contract documents, for any reason, the Contractor shall make specific mention of such variation in his letter of transmittal. The Contractor shall note in red on the submittal any change in design or dimension shown on the item submitted including changes made by the manufacturer that may differ from catalog information.

D. Acceptance or rejection of the proposed substitutions shall be subject to approval by the Architect and Engineer. If requested, the Contractor shall submit (at their cost) inspection samples of both the specified and the proposed substitute items for review by the Engineer.

E. Contractor further agrees that if deviations, discrepancies, or conflicts between shop drawing submittals and the contract documents in the form of design drawings and specifications are discovered either prior to or after shop drawing submittals are processed by the Engineer, the design drawings and specifications shall control and shall be followed.

1.09 RECORD DRAWINGS

A. Each Contractor or Sub-contractor for Electrical work shall keep one complete set of the contract working drawings on the job site on which he shall record any deviations or changes from such contract drawings made during construction.

B. These Drawings shall be kept clean and undamaged, and shall not be used for any purpose other than recording deviations from working drawings and exact locations of concealed work.

1.10 OPERATING, MAINTENANCE AND SERVICE MANUALS

A. The Contractor shall thoroughly instruct the representative of the Owner, to the complete satisfaction of the Architect, in the proper operation of all systems and equipment provided by him. The Contractor shall make arrangements, via the Architect, as to whom the instructions are to be given in the operation of the basic and auxiliary systems and the period of time in which they are to be given. The Architect shall be completely satisfied that the representative of the Owner has been thoroughly and completely instructed in the proper operation of all systems and equipment before final payment is made. If the Architect determines that complete and thorough instructions have not been given by the Contractor to the Owner's representative, then the Contractor shall be directed by the Architect to provide whatever instructions are necessary until the intent of the paragraph of the specification has been complied with.

B. Deliver to the Owner all keys, special tools and appurtenances for proper operation and maintenance of the equipment. Provide complete bound set of operating and maintenance instructions for all electrical equipment and controls.

PART 2 – PRODUCTS

2.01 EQUIPMENT AND MATERIALS

A. Equipment and materials used on this job shall be new, U.L. labeled, and O.S.H.A. approved.

B. Equipment and materials shall be protected and be the responsibility of this Contractor until formally accepted by the Owner.

C. Material and equipment built into the work for which examination service is provided shall bear the Underwriter's Label.

D. Materials and equipment provided under this Contract shall be new and of the quality herein specified. Each class of materials shall be of the same type and make throughout the building.

E. All manufacturers of electrical equipment shall demonstrate to the satisfaction of the Contractor and Engineer that their equipment will function properly under the conditions of use as indicated on the drawings and as specified herein. Dimensions, weights, operating characteristics and all other related appurtenances should be verified before submittal of shop drawings.

F. Fire Stopping

1. In addition to the requirements specified herein, refer to Division 1 Specifications for fire stopping guidelines.

2. All openings in fire rated floors, shafts, and walls accommodating penetrating items such as cables, conduits, raceways, cable trays, or buyways shall be fire stopped.

a. Provide fire stopping for steel electrical outlet boxes that exceed 16 square inches in area and/or when the aggregate surface of the boxes exceeds 100 square inches in any 100 square foot of wall area. In addition, provide fire stopping for steel electrical outlet boxes on opposite sides of the wall that are not separated by a horizontal distance of 24 inches.

b. Provide fire stopping where a penetration occurs through the fire stopping manufacturer. Equipment used shall be in accordance with the fire stopping manufacturer's written installation instructions.

c. Provide fire stopping to completely fill spaces around penetrations where penetrations occur at fire rated shafts and walls of hollow-type construction.

3. The installation of fire stopping materials shall conform to the latest Fire Resistance Director of Canada, Inc. published by U.L.

4. Fire stopping shall be performed by a contractor trained or approved by the fire stopping manufacturer. Equipment used shall be in accordance with the fire stopping manufacturer's written installation instructions.

5. Acceptable Manufacturers: Specified Technologies, Inc.; Tremco, Inc.; 3M; and Hill.

PART 3 – EXECUTION

3.01 EQUIPMENT CONNECTIONS

A. Serve and connect equipment being installed during the construction period, but provide facilities only for serving equipment that will be moved in, set and connected later by the Owner. Provide caps and covers where required and fastener fuses in switches left for future equipment connections.

3.02 SERVICE SHUTDOWNS

A. Prior to any isolation of systems, shutdowns or demolition the Contractor shall provide necessary investigation and notify the Facilities Engineering/Maintenance personnel of work to be performed so as to avoid any detrimental shutdown of systems in adjacent spaces.

B. Maintain existing electrical systems in service until the new systems are complete and ready for service. Disable the systems only to make switchovers and connections. Any service shutdowns that may be required shall be scheduled with and approved by the Owner. All shutdowns shall be scheduled with and approved by the Owner. A minimum of a one-week notice shall be given prior to any service shutdown. No additional compensation shall be allowed for these shutdown periods even though overtime work may be required.

END OF SECTION

SECTION 16020 – ELECTRICAL DEMOLITION

PART 1 – GENERAL

1.01 WORK INCLUDES

A. The information indicated on the Demolition Drawings is a composite of information obtained from readily observable field conditions and/or existing drawings. The Demolition Drawings may not show every existing receptacle, luminaire, switch, conduit, etc. and shall therefore be considered diagrammatic. Field verification of all existing devices and systems will be required to be made by the Contractor prior to commencement of work. Note that electrical or electronic circuit tracers were not used to verify these plans.

B. Include all costs and labor, materials, equipment, services, and permits necessary for completion of the demolition work. Provide protection for all personnel and adjacent areas before, during, and after execution of the demolition work.

C. Electrical equipment indicated on the Demolition Drawings is shown to indicate the extent of demolition only, and is not intended to be a record drawing of the existing conditions. The Drawings and Specifications establish the minimum standards for workmanship and materials.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Provide materials and equipment for completion of the demolition work as described within the Specifications and on the Drawings.

PART 3 – EXECUTION

3.01 GENERAL DEMOLITION WORK

A. The Contractor shall remove and/or relocate all of the existing electrical work made necessary because of project alterations as indicated or implied on the Contract Documents of all trades. All existing electrical equipment and systems not affected by these changes shall remain and shall be protected whether shown on the Drawings or not. The Contractor shall maintain existing circuit continuity as described in the Specifications and on the Drawings, or as required for continued operation of the electrical equipment and systems.

B. Where required, reoccupy existing conduits and cabling above ceilings being removed. Electrically disconnect equipment to be removed at the point of power supply. Remove conduit and wiring from equipment to be removed complete to the point of power supply. Existing panelboards being modified/removed shall be provided with new typewritten directories to reflect any changes made through this demolition.

C. All wiring (Branch Circuit, Fire alarm, etc.) that is to be demolished shall be removed completely back to source including all conduit, supports, conductors, etc. Do not abandon any materials above ceilings or in walls. The associated circuit breakers shall be turned off and marked as spare if not reused for the new construction.

D. Where building systems or circuits are interrupted because of the demolition work, they shall be rerouted or relocated, modified and reconnected to provide a continuous system.

E. All cutting, patching, finishing, etc., for removal and relocating electrical equipment shall be included as part of the Electrical Work unless otherwise noted. All damage caused by the demolition work shall be properly patched with suitable materials to match existing surfaces. All abandoned electrical conduits or other openings made by removal of existing electrical components shall be fire stopped with approved U.L. rated mineral wool and/or fire caulk. U.L. approved fire stop method/material shall match the existing and/or new rated assembly.

F. All equipment to be salvaged by the Owner shall be carefully removed and securely stored on site by the Contractor for salvage by the Owner. All other materials, equipment and debris shall become the property of the Contractor and shall be removed from the site.

G. Where existing electrical equipment is indicated on the Drawings to remain, the existing wiring shall remain, along with the related conduit system, unless otherwise shown or noted on the Drawings. Clean, repair, and refurbish existing materials and equipment that are to remain.

H. In all cases where existing branch circuit conduit and wiring is to be re-used or extended within the remodeled area, the Contractor shall test for grounding continuity and shall test the existing branch circuit wiring as though new, in accordance with the testing procedures outlined elsewhere in these Specifications.

I. Existing flush outlet boxes may be reused if at proper height, location and in good condition. Existing concealed raceways may be reused if in good condition.

J. Cap existing empty conduits and plug open knockouts in existing electrical equipment.

K. In all existing or new areas specified or shown to be painted, the Contractor shall remove all electrical items as required including but not limited to luminaires, device plates, devices, etc. Reinstall after completion of painting. Any item not removed and pointed over shall be suitably cleaned or replaced with a new item by the Contractor.

END OF SECTION

SECTION 16050 – BASIC MATERIALS AND METHODS

PART 1 – GENERAL

1.01 GENERAL

A. Work Includes

Conduits

Wire and Cable

Wiring Devices

Supporting Devices

B. Related Work Specified Elsewhere

Section 16010 – General Electrical Provisions

Section 16060 – Grounding and Bonding

C. Products

1. Material and equipment built into the work for which examination service is provided shall bear the Underwriter's Label.

2. Materials and equipment provided under this contract shall be new and of the quality herein specified. Each class of materials shall be of the same type and make throughout the building.

PART 2 – PRODUCTS AND EXECUTION

2.01 CONDUITS

A. Materials

1. Conduit shall be rigid galvanized or intermediate grade in exterior masonry walls, masonry walls below grade, concrete floors, walls or slabs; damp or wet locations; or exposed below 8 feet above finished floor. Use P.V.C. in ground applications. All other interior conduits may be EMT or MC as approved by the NEC.

2. Rigid conduit fittings shall be threaded fittings. Rigid conduit couplings and hubs to have no less than five (5) threads of conduit engaged and screwed up tight.

3. All conduits that pass through the roof shall be in pipe ports.

4. All conduits that cross expansion joints shall have expansion seismic couplings.

5. All conduits that are indicated on the drawings to be run exposed on the building roof shall be supplied with pipe roller supports.

6. Exterior underground conduit shall be P.V.C. schedule 40, and must be encased in 8" of concrete under drives or roadways. The transition to rigid conduit must be made before the conduit enters the building.

END OF SECTION

SECTION 16020 – ELECTRICAL DEMOLITION

PART 1 – GENERAL

1.01 WORK INCLUDES

A. The information indicated on the Demolition Drawings is a composite of information obtained from readily observable field conditions and/or existing drawings. The Demolition Drawings may not show every existing receptacle, luminaire, switch, conduit, etc. and shall therefore be considered diagrammatic. Field verification of all existing devices and systems will be required to be made by the Contractor prior to commencement of work. Note that electrical or electronic circuit tracers were not used to verify these plans.

B. Include all costs and labor, materials, equipment, services, and permits necessary for completion of the demolition work. Provide protection for all personnel and adjacent areas before, during, and after execution of the demolition work.

C. Electrical equipment indicated on the Demolition Drawings is shown to indicate the extent of demolition only, and is not intended to be a record drawing of the existing conditions. The Drawings and Specifications establish the minimum standards for workmanship and materials.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Provide materials and equipment for completion of the demolition work as described within the Specifications and on the Drawings.

PART 3 – EXECUTION

A. The Contractor shall remove and/or relocate all of the existing electrical work made necessary because of project alterations as indicated or implied on the Contract Documents of all trades. All existing electrical equipment and systems not affected by these changes shall remain and shall be protected whether shown on the Drawings or not. The Contractor shall maintain existing circuit continuity as described in the Specifications and on the Drawings, or as required for continued operation of the electrical equipment and systems.

B. Where required, reoccupy existing conduits and cabling above ceilings being removed. Electrically disconnect equipment to be removed at the point of power supply. Remove conduit and wiring from equipment to be removed complete to the point of power supply. Existing panelboards being modified/removed shall be provided with new typewritten directories to reflect any changes made through this demolition.

C. All wiring (Branch Circuit, Fire alarm, etc.) that is to be demolished shall be removed completely back to source including all conduit, supports, conductors, etc. Do not abandon any materials above ceilings or in walls. The associated circuit breakers shall be turned off and marked as spare if not reused for the new construction.

D. Where building systems or circuits are interrupted because of the demolition work, they shall be rerouted or relocated, modified and reconnected to provide a continuous system.

E. All cutting, patching, finishing, etc., for removal and relocating electrical equipment shall be included as part of the Electrical Work unless otherwise noted. All damage caused by the demolition work shall be properly patched with suitable materials to match existing surfaces. All abandoned electrical conduits or other openings made by removal of existing electrical components shall be fire stopped with approved U.L. rated mineral wool and/or fire caulk. U.L. approved fire stop method/material shall match the existing and/or new rated assembly.

F. All equipment to be salvaged by the Owner shall be carefully removed and securely stored on site by the Contractor for salvage by the Owner. All other materials, equipment and debris shall become the property of the Contractor and shall be removed from the site.

G. Where existing electrical equipment is indicated on the Drawings to remain, the existing wiring shall remain, along with the related conduit system, unless otherwise shown or noted on the Drawings. Clean, repair, and refurbish existing materials and equipment that are to remain.

H. In all cases where existing branch circuit conduit and wiring is to be re-used or extended within the remodeled area, the Contractor shall test for grounding continuity and shall test the existing branch circuit wiring as though new, in accordance with the testing procedures outlined elsewhere in these Specifications.

I. Existing flush outlet boxes may be reused if at proper height, location and in good condition. Existing concealed raceways may be reused if in good condition.

J. Cap existing empty conduits and plug open knockouts in existing electrical equipment.

K. In all existing or new areas specified or shown to be painted, the Contractor shall remove all electrical items as required including but not limited to luminaires, device plates, devices, etc. Reinstall after completion of painting. Any item not removed and pointed over shall be suitably cleaned or replaced with a new item by the Contractor.

END OF SECTION

SECTION 16050 – BASIC MATERIALS AND METHODS

PART 1 – GENERAL

1.01 GENERAL

A. Work Includes

Conduits

Wire and Cable

Wiring Devices

Supporting Devices

5. Ground fault circuit interrupter (G.F.C.I.) receptacles, where required by local code, shall be Hubbell #AFGFI5TR.

6. Weatherproof receptacles shall be Hubbell #HBL5282WR duplex outlet with Hubbell #HBL5221 polycarbonate gray plate, box mount.

B. Execution

1. Provide receptacles and switches as indicated. Colors of device and plates shall be selected by the Architect. Verify before installation.

2. Adjacent devices shall be mounted in ganged boxes.

3. Junction boxes shall not be installed above gypsum ceilings, due to inaccessibility.

2.04 DISCONNECT SWITCHES

A. Disconnect switches, unfused or fused, single throw, shall be installed where indicated on the Drawings and/or where required by Code. Switches shall be heavy duty for indoors or outdoors as required and manufactured by Square D, General Electric, Siemens or Cutler-Hammer.

B. If double lugging or oversized wires are required, provide a wireway or splice box.

C. The means of disconnect/control for all equipment and disconnects shall be installed in a readily accessible location and shall have proper working space as defined in NEC Article 100 and 110.

2.05 SUPPORTING DEVICES

A. All hardware, supports, hangers, angle iron, channels, rods, clamps necessary to install electrical equipment and lighting fixtures shall be supplied to suit conditions and application. The use of perforated straps will not be permitted.

B. Supporting devices shall be galvanized or aluminum material.

2.06 EQUIPMENT MOUNTING

A. All equipment mounted on exterior walls shall be attached to 3/4" plywood boards furred out 1" from wall. Provide painting of plywood boards _ finish as selected by the Architect.

B. Provide all excavation, concrete and backfill required for electrical work exclusively. All concrete work shall be in accordance with the requirements of the State of Ohio.

C. Pads for Utility Company transformers: follow Utility Company requirements.

END OF SECTION

SECTION 16400 – SERVICE AND DISTRIBUTION

PART 1 – GENERAL

1.01 GENERAL

A. Work Includes:

Grounding

Branch Circuit Panelboards

Transformers

B. Related Work Specified Elsewhere

Section 16010 – General Electrical Provisions

Section 16050 – Basic Electrical Materials and Methods

Section 16400 – Power Distribution Equipment

1.02 GROUNDING

A. Ground all conduits, cabinets, motors, panels and other exposed non-current carrying metal parts of electrical equipment in accordance with all provisions of the National Electrical Code and local codes.

B. Ground all conduits by means of grounding bushings on terminations at panelboards with an installed #12 conductor to grounding bus

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ELECTRICAL SYMBOL LEGEND

	HOMERUN TO PANEL "A", CIRCUITS 1 and 3
HP-1,2	INDICATES HOMERUN TO HOUSE POWER PANEL "HP-1", CIRCUIT #2
----	UNDERFLOOR CONDUIT/WIRE
\$ _o	SWITCH – SINGLE POLE – LOWER CASE LETTER "o" INDICATES THIS SWITCH TO CONTROL LIGHT FIXTURES DESIGNATED WITH LOWER CASE "o".
\$ ⓪	COMBINATION SWITCH AND DUPLEX RECEPTACLE – MOUNTING AT 48" A.F.F.
\$os	DUAL TECHNOLOGY WALL SWITCH SENSOR WITH DUAL RELAY, SINGLE GANG, SINGLE POLE, 400 SQ FT COVERAGE, MANUAL/AUTO ON, TYPICAL WATTSTOPPER DW-200, 120/277V.
	WALL BOX DIMMER 0-10 VOLTS WITH SWITCH, MOUNTED 48" A.F.F.
Ⓢ _o 3 CONTROL	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR INDICATES FUTURE CONTROL
Ⓟ _o	LINE VOLTAGE POWER PACK. WIRE ALL RELATED SENSORS TO POWER PACK FOR ROOM LIGHTING CONTROL
Ⓢ	SPECIAL PURPOSE RECEPTACLE – SEE PLANS FOR DESCRIPTIONS
Ⓢ	DUPLEX RECEPTACLE – MOUNTED AT 18" A.F.F. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
Ⓢ	DUPLEX RECEPTACLE – TOP SWITCHED, BOTTOM CONTINUOUS
Ⓢ	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY – VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT
Ⓢ	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
Ⓢ _G	DUPLEX RECEPTACLE – G.F.C.I. TYPE
Ⓢ _{84"}	DUPLEX RECEPTACLE MOUNTED AT 84" A.F.F., OR AS INDICATED ON DRAWING
Ⓢ	DUPLEX RECEPTACLE – MOUNTING AT 48" A.F.F.
Ⓢ _C	DUPLEX RECEPTACLE – MOUNTED AT 7" ABOVE COUNTERTOP
Ⓢ _{WP}	WEATHERPROOF DUPLEX RECEPTACLE, WITH GFCI PROTECTION, MOUNTING AT 24" ABOVE FINISHED GRADE
Ⓢ _S	DUPLEX RECEPTACLE – SURGE SUPPRESSION TYPE
Ⓢ	DUPLEX RECEPTACLE – FLOOR MOUNTED
Ⓢ	RECEPTACLE, DUPLEX, 15A-125V-A.C. HOSPITAL GRADE, 18" A.F.F. U.O.N. HUBBELL CAT.# HBL 8200-1
△	A.D.A. COMPLIANT WALL SCONCE, U.O.N.

A	FLUORESCENT LIGHT FIXTURE TYPE "A"
O _B	LIGHT FIXTURE TYPE "B"
O _C	LIGHT FIXTURE – WALL MOUNTED TYPE "C"
O _{NL}	LIGHT FIXTURE ON EMERGENCY AND/OR NIGHT LIGHT CIRCUIT, PROVIDE AND INSTALL "LOCK-ON" CLIP TO ALL CIRCUIT BREAKERS THAT SERVE EMERGENCY LIGHTING CIRCUITS
●	PHOTOCELL MOUNTED AT ROOF FACING NORTH TORK CAT.# 2000.
T	TIME CLOCK, 3PST, 40A CONTACTS, 120V MOTOR WITH 24 HOUR DIAL, SPRING WOUND CARRYOVEM, NEMA 3R ENCLOSURE, YORK CAT#7300L
Ⓢ	EXIT SIGN – CEILING MOUNTED
Ⓢ	EXIT SIGN – WALL MOUNTED, LOCATE SO THAT SIGN IS VISIBLE THROUGH BEAM AND SOFFIT DROPS, PROVIDE PENDANT MOUNTING HARDWARE IF REQUIRED
	CIRCUIT BREAKER PANELBOARD
Ⓢ	SINGLE OR THREE PHASE MOTOR – SEE DRAWINGS FOR DESCRIPTION
□ _H	UNFUSED DISCONNECT SWITCH
Ⓢ _H	FUSED DISCONNECT SWITCH
Ⓢ _H	COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH
Ⓢ	JUNCTION BOX – SIZE AND MOUNTING HEIGHT/LOCATION AS REQUIRED

	CONDUIT TURNED UP/CONDUIT TURNED DOWN
W.P.	WEATHERPROOF
U.O.N.	UNLESS OTHERWISE NOTED
E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
HVAC	HEATING VENTILATION AND AIR CONDITIONING
A.F.F.	ABOVE FINISHED FLOOR
TS [3/C] FS	FIRE ALARM SPRINKLER SYSTEM TAMPER SWITCH/FLOW SWITCH
F/SD	FIRE ALARM COMBINATION FIRE/SMOKE DAMPER
Ⓢ _S	FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED, PHOTO-ELECTRONIC TYPE.
Ⓢ	FIRE ALARM PULL STATION, ADA COMPLIANT, SINGLE ACTION, SEMI-FLUSH MOUNT – AT 48" A.F.F.
Ⓢ	FIRE ALARM HORN WITH FLASHING STROBE LIGHT, ADA COMPLIANT – MOUNTING AT 80" A.F.F.
Ⓢ	FIRE ALARM (VISUAL ONLY) FLASHING STROBE LIGHT, ADA COMPLIANT – MOUNTING AT 80" A.F.F.
Ⓢ	FIRE ALARM HORN WITH FLASHING STROBE LIGHT, ADA COMPLIANT – CEILING MOUNTED
Ⓢ	FIRE ALARM SYSTEM HEAT DETECTOR.
FACP	FIRE ALARM CONTROL PANEL/COMMAND CENTER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
Ⓢ	PHOTOELECTRONIC, DUCT TYPE, SMOKE DETECTOR WITH SAMPLING TUBES AS REQUIRED AND CONTRACTS CONNECTE TO SHUT DOWN AIR CONDITIONING UNIT. MOUNT IN RETURN AIR SYSTEM PER MANUFACTURER'S RECOMMENDATION.
Ⓢ	REMOTE POWER/ALARM INDICATOR/KEY SWITCH, INDICATES POWER ON CONDITION, MOMENTARY CONTACT SWITCH ACTUATES ALARM RELAY AND REMOTE L.E.D., FLUSH MOUNTED AT LOCATION INDICATED ON PLANS.
Ⓢ	FLOW SWITCH, FURNISHED & INSTALLED BY SPRINKLER CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.
Ⓢ	TAMPER SWITCH, FURNISHED & INSTALLED BY SPRINKLER CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.
Ⓢ	GAS VALVE, FURNISHED & INSTALLED BY PLUMBING CONTRACTOR, CONNECTED TO KITCHEN HOOT CONTROL SYSTEM AND FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
Ⓢ	PRESSURE SWITCH, FURNISHED & INSTALLED BY SPRINKLER CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.

NURSE CALL SYMBOL LEGEND

M	MASTER STATION
U	UPS FOR MASTER STATION
PS	DUTY STATION
N	BATH STATION WITH CORO
B	PATIENT BED STATION WITH CALL CORO
△	DOME LIGHT –CORRIDOR NURSE CALL SYSTEM CALL LIGHT UNIT
R	REPEATER LOCATOR
RB	RECEIVER WITH 6 RELAY OUTPUTS FOR DOME LIGHTS
RB	RECEIVER WITH 9 RELAY OUTPUTS FOR DOME LIGHTS
T	RECEIVER
PS	POWER SUPPLY

SECURITY SYSTEM SYMBOL LEGEND

DC	DOOR CONTACT, PROVIDED BY OTHERS. PROVIDE JUNCTION BOX AS REQUIRED AND 1/2"C STUBBED ABOVE CEILING AND TERMINATE WITH INSULATED BUSHING.
Ⓢ	KEYPAD, PROVIDED BY OTHERS. PROVIDE 4" SQUARE EXTRA DEEP BOX WITH SINGLE GANG PLASTER RING. STUB 1/2"C ABOVE CEILING & TERMINATE WITH INSULATE BUSHING.
Ⓢ	ELECTRIC STRIKE, PROVIDED BY OTHERS. PROVIDE ROUGH-INS AS REQUIRED AND 1/2"C STUBBED ABOVE CEILING & TERMINATE WITH INSULATE BUSHING.
Ⓢ	TELECOMMUNICATION MAIN GROUNDING BAR, HARGER GBI SERIES. INSTALL IN MDF AND IDF LOCATIONS.
Ⓢ	ELECTROMAGNETIC DOOR HOLDER WITH MOUNTING HARDWARE FOR WALL OR CEILING OR FLOORS AS REQUIRED IN FIELD.

GENERAL TECHNOLOGY NOTES

1. PROVIDE PLENUM RATED RG6 QUAD SHIELD CABLE AND PLENUM RATED CAT6
(MINIMUM) SHALL BE BELDEN, BERK-TECK, GENERAL, HUBBELL, MOHAWK, SIEMENS,
OR SUPERIOR ESSEX.
2. ALL CABLES SHALL BE LABELED AT EACH END WITH A UNIQUE IDENTIFIER.
TV/DATA/VOICE CABLE LABELING FORMAT = ROOM #-X, WHERE X=V FOR VOICE, OR
D FOR DATA. ANOTHER DIGIT SHALL BE ADDED FOR MULTIPLE LOCATIONS PER ROOM.
WIRELESS ACCESS POINTS SHALL BE LABELED CONSECUTIVELY WAP-1,2,3, ETC.
3. ELECTRICAL CONTRACTOR SHALL CONTACT OWNER'S PREFERRED VENDOR/INSTALLER
FOR PRICING.

WIRELESS SYSTEM NOTES

1. ELECTRICAL CONTRACTOR SHALL INSTALL BLUE DATA CABLE PER PLANS. LEAVE 8'
NEATLY COILED ABOVE CEILING AT WIRELESS ACCESS POINT LOCATION. LEAVE 12' AT
RACK END IN ELECTRIC C25. LABEL PER NOTES.
 2. WIRELESS ACCESS POINTS, PATCH PANELS, TERMINATION AND TESTING SHALL BE
FURNISHED AND INSTALLED BY OWNER'S PREFERRED INSTALLER, UNDER CONTRACT
WITH THE ELECTRICAL CONTRACTOR.
- TELEPHONE / DATA SYSTEM NOTES
1. ELECTRICAL CONTRACTOR SHALL INSTALL BLUE DATA AND GRAY VOICE CABLES PER PLANS.
LEAVE 12" EXCESS AT USER END AND 12" LOOP ABOVE CEILING. LEAVE 12' AT RACK END
IN ELECTRIC C25. LABEL PER NOTES.
 2. VOICE/DATA JACKS, FACE PLATES, PATCH PANELS, RACK, TERMINATION + TESTING SHALL BE
FURNISHED AND INSTALLED BY OWNER'S PREFERRED INSTALLER, UNDER CONTRACT WITH THE
ELECTRICAL CONTRACTOR.

NURSE CALL SYSTEM NOTES

1. SYSTEM AND COMPONENTS SHALL BE INSTALLED PER NEC AND AS APPROVED BY AUTHORITY
HAVING JURISDICTION AND MANUFACTURER'S DRAWINGS.
2. ALL WIRING AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL
CONTRACTOR.
3. ALL WIRING SHALL BE SUITABLE FOR INSTALLATION IN AIR HANDLING PLENUMS. PROVIDE 3/4"
METALLIC RACEWAY ABOVE FIXED CEILINGS AND TERMINATE WITH INSULATED BUSHING.
4. INSTALL BACK BOXES FURNISHED BY NURSE CALL SUPPLIER AT EACH NURSE CALL LOCATION.
5. AREA NURSE CALL ANNUNCIATOR SHALL HAVE AN AUDIBLE AND VISUAL ALARM INDICATING
SMOKE DETECTION IN A PATIENT ROOM.
6. NURSE CALL SYSTEM SHALL BE A TEKSTONE 500 SYSTEM.
7. CONTACT OWNER'S PREFERRED VENDOR/INSTALLER FOR PRICING.

TELEPHONE / DATA / CABLE TV
SYMBOL LEGEND

	TELEPHONE/CATV TERMINAL BACKBOARD, 3/4"D. FLAME RETARDANT PLYWOOD.
TV	TELEVISION OUTLET BOX, 4 X 2-1/8 WITH PLASTER RING IN FINISHED AREAS/ STUB 1" CONDUIT INTO PLEUM SPACE ABOVE LAY-IN CEILING + TERMINATE WITH INSULATED BUSHING. INSTALL (1) QUAD-SHIELD RG6 CABLE. SEE NOTES ON THIS SHEET.
W▶	TELEPHONE OUTLET BOX, 2 X 4 X 2-1/8 WITH PLASTER RING IN FURNISHED AREAS. STUB 1" CONDUIT INTO PLENUM SPACE ABOVE LAY-IN CEILING & TERMINATE WITH INSULATED MOUNTED 18" A.F.F. UNLESS INDICATED OTHERWISE. W=WALL MOUNTED +44" INSTALL (1) GRAY VOICE CABLE. SEE NOTES ON THIS SHEET.
▶	COMBINATION TELEPHONE/DATA OUTLET MOUNTING AT 18" A.F.F. (C – INDICATES OUTLET TO BE MOUNTED 7" ABOVE COUNTER). PROVIDE (2) RJ45 – CATEGORY 6 OUTLETS.
▶	DATA/TELEPHONE OUTLET FLUSH MOUNTED IN FLOOR
Ⓢ	WIRELESS ACESS POINT, INSTALL (1) BLUE DATA CABLE ABOVE CEILING. SEE NOTES ON THIS SHEET.

CABLE TV SYSTEM NOTES

1. SYSTEM AND COMPONENTS SHALL BE INSTALLED PER NEC AND AS APPROVED BY
AUTHORITY HAVING JURISDICTION AND MANUFACTURER'S DRAWINGS.
2. EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY OTHERS UNDER A SEPARATE
CONTRACT WITH THE OWNER.
3. ALL WIRING SHALL BE SUITABLE FOR INSTALLATION IN AIR HANDLING PLENUMS.
PROVIDE 3/4" METALLIC RACEWAY ABOVE FIXED CEILINGS AND TERMINATE WITH
INSULATED BUSHING ABOVE REMOVABLE CEILING.
4. PROVIDE STANDARD 4 INCH SQUARE EXTRA DEEP BOX WITH SINGLE GANG PLASTER
RING AT EACH CABLE TV LOCATION.
5. ELECTRICAL CONTRACTOR SHALL INSTALL (1) RG6 QUAD SHIELD CABLE AND (1)
CAT6 FROM EACH TV LOCATION TO ELECTRIC C25. LEAVE 12" EXCESS AT USER END
AND 10' EXCESS AT TV BOARD. LABEL PER NOTES.

DOOR SECURITY SYSTEM NOTES

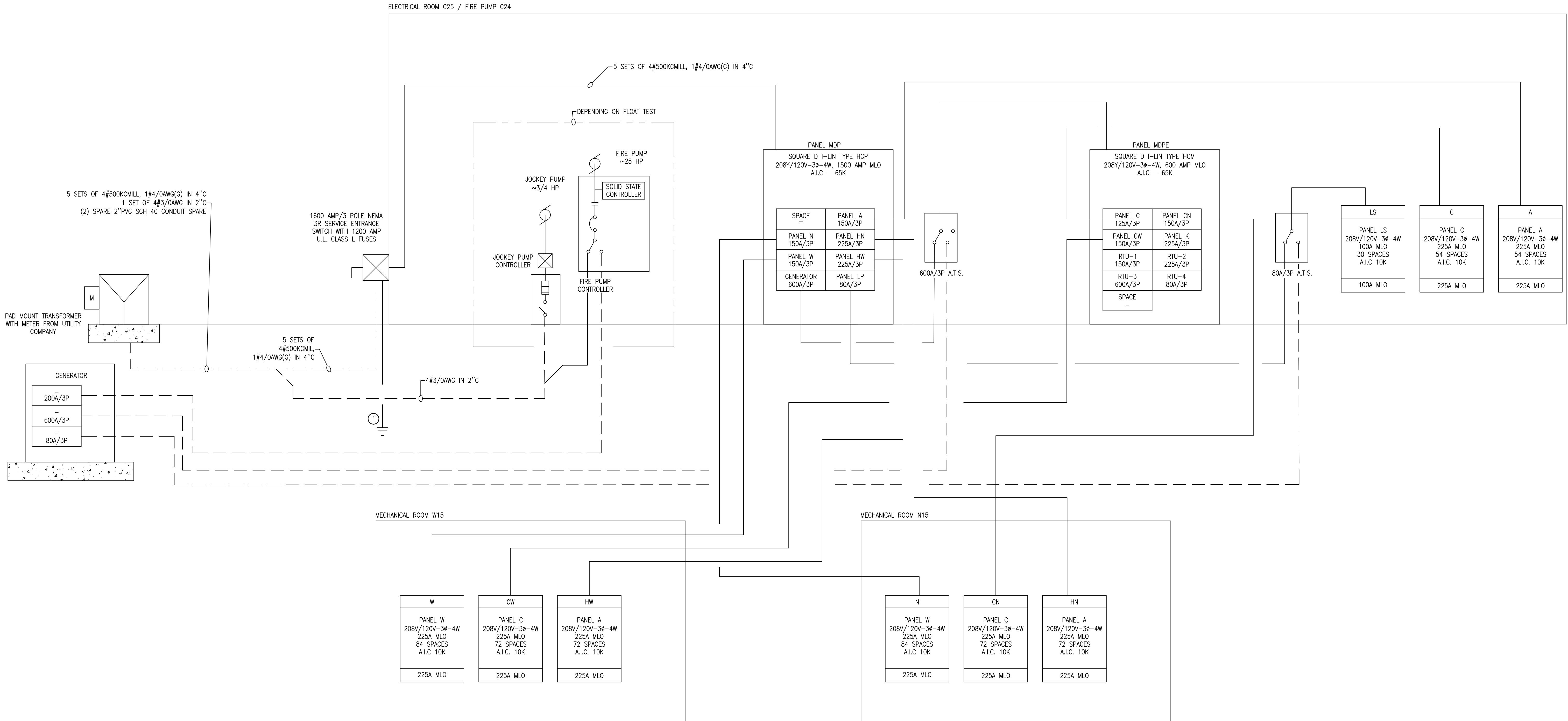
1. SYSTEM AND COMPONENTS INSTALLED PER VBC AND AS APPROVED BY AUTHORITY
HAVING JURISDICTION AND MANUFACTURER'S DRAWINGS.
2. ALL WIRING AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY OTHERS
UNDER A SEPARATE CONTRACT WITH THE OWNER.
3. ALL WRING SHALL BE SUITABLE FOR INSTALLATION IN AIR HANDLING PLENUMS.
PROVIDE 3/4" METALLIC RACEWAY ABOVE FIXED CEILINGS AND TERMINATE WITH
INSULATED BUSHING ABOVE REMOVABLE CEILING.
4. PROVIDE STANDARD 4 INCH SQUARE, EXTRA DEEP BOX WITH SINGLE GANG PLASTER
RING AT EACH KEY PAD LOCATION.
5. ALL DOOR LOCKS SHALL RELEASE UPON ACTIVATION OF THE FIRE ALARM SYSTEM.

PAGING SYSTEM NOTES

1. ELECTRICAL CONTRACTOR SHALL INSTALL (1) 16/2 PLENUM RATED SHIELDED CABLE
BETWEEN ALL SPEAKER LOCATIONS, LEAVE 8' NEATLY LOOPED AT EACH END OF
EACH CABLE.
2. EQUIPMENT, SPEAKER ETC., SHALL BE FURNISHED AND INSTALLED BY OWNER'S
PREFERRED INSTALLER, UNDER CONTRACT WITH THE ELECTRICAL CONTRACTOR.

PAGING / INTERCOM SYMBOL LEGEND

●	PAGING SPEAKER, INSTALL (1)16/2 SHIELDED SPEAKER CABLE, SEE NOTES ON THIS SHEET.
T1	TRANSFORMER, 120V-A.C., 12V-D.C. OUTPUT VOLTAGE, 2.5 AMP. AIPHONE CAT.# PT-1225UL
PS	POWER SUPPLY, 24V-A.C., 28 WATTS, 12V-D.C., 1.0 AMP AIPHONE CAT.# PS-1820UL
M	VIDEO INTERCOM MASTER, DESK MOUNTED, WITH COMMUNICATION AND DOOR RELEASE CAPABILITY. AIPHONE CAT.# JK-1MED
M1	VIDEO INTERCOM SUB, SURFACE MOUNTED, W/SEL DOOR RELEASE. AIPHONE CAT.# JK-1HD, MOUNTED AT 54" A.F.F.
I	INTERCOM DOOR STATION, SURFACE MOUNT AT 54" A.F.F. AIPHONE CAT.# JK-DA
R	RELAY 12V-D.C., CONTACT RATING, 110V-A.C., 1 AMP; 24V-D.C., 1 AMP. AIPHONE CAT.# RY-18L

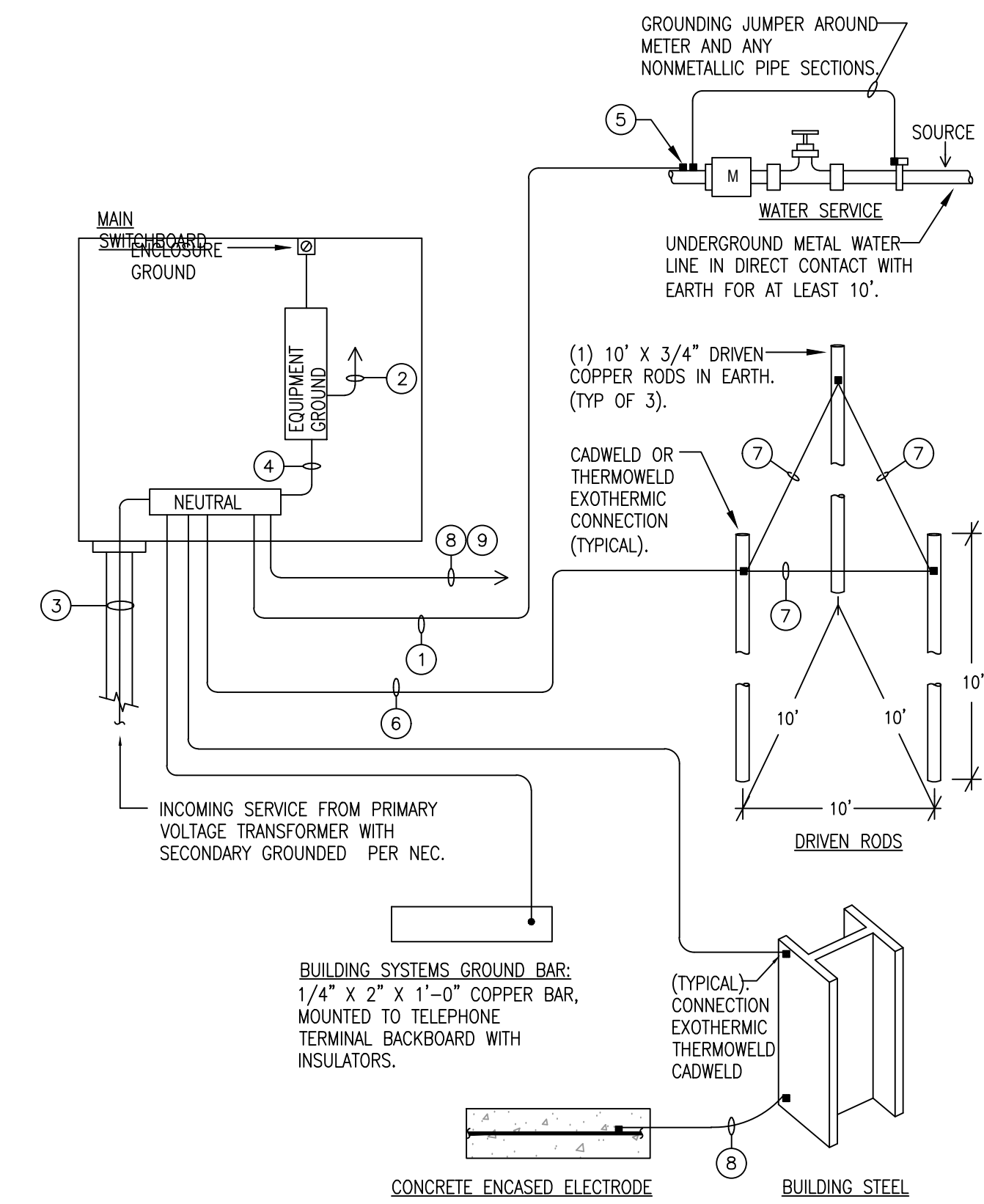


SYSTEMS PLAN - NORTH WING CODED NOTES:

① SEE GROUNDING DETAIL ON SHEET XXX.

POWER RISER DIAGRAM

SCALE: NO SCALE

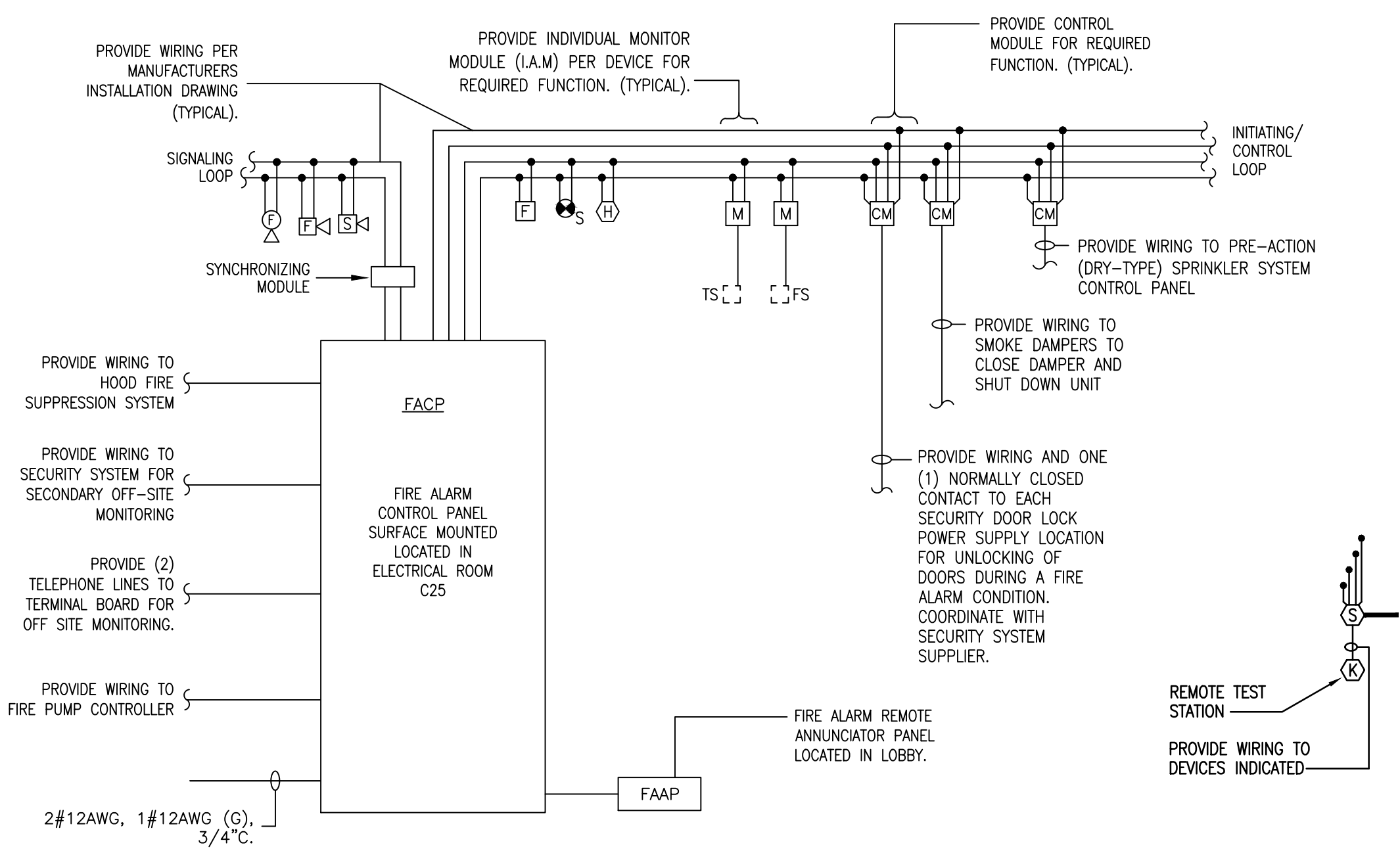


SERVICE GROUNDING ELECTRODE WIRING DIAGRAM

NOT TO SCALE

GROUNDING DIAGRAM NOTES:

- THE GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER TABLE 250.66 OF THE NEC. THE CONDUCTOR SHALL BE CONNECTED TO AN APPROVED GROUNDING ELECTRODE.
- GROUND CONDUCTORS TO OTHER POINTS AND EQUIPMENT, AS REQUIRED BY NEC ARTICLE 250.
- SERVICE ENTRANCE PHASE CONDUCTORS WITH GROUNDED (NEUTRAL) CONDUCTOR.
- MAIN BONDING JUMPER SHALL BE SIZED PER TABLE 250.66 OF THE NEC.
- INTERIOR METAL WATER PIPING CONNECTIONS SHALL BE MADE WITHIN 5' OF BUILDING ENTRANCE PER NEC 250.52(A)(1)
- GROUND ROD ELECTRODE - PROVIDE #4/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR, PER NEC 250.66(A).
- BONDING CONDUCTOR SHALL BE SIZED PER TABLE 250.66 OF THE NEC.
- METAL WATER PIPING AND STRUCTURAL STEEL %NOT%U INTENTIONALLY GROUNDED SHALL BE BONDED PER NEC 250.104 AND NEC TABLE 250.66.
- OTHER METAL PIPING (GAS, ETC.) SHALL BE BONDED PER NEC 250.104 AND NEC TABLE 250.122.



ADDRESSABLE FIRE ALARM SYSTEM WIRING DIAGRAM

NOT TO SCALE

NOTES:

- THIS DIAGRAM REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND SCHEMATIC WIRING DIAGRAMS. EXACT SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE SYSTEM SUPPLIER. SYSTEM INSTALLER SHALL BE NICET CERTIFIED, IF REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- SYSTEM AND COMPONENTS SHALL BE INSTALLED PER VBC AND AS APPROVED BY AUTHORITY HAVING JURISDICTION. COMPLY WITH NFPA 72, UL 268 AND APPROVED MANUFACTURER'S DRAWINGS.
- CONTACT OWNER'S PREFERRED VENDOR/INSTALLER FOR PRICING.
- ALL FIRE ALARM WIRING SHALL BE PLENUM RATED. EXPOSED FIRE ALARM WIRING, 10'-0" AFF AND BELOW, SHALL BE INSTALLED IN CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR STRUCTURE.
- PROVIDE AND INSTALL POWER SUPPLY(IES) AS REQUIRED TO OPERATE ADDITIONAL DEVICES ON PLAN.
- ALL CONTROL CABINETS SHALL BE GROUNDED PER NEC REQUIREMENTS AND PER SPECIFICATIONS.
- PRIOR TO ROUGH-IN, SUBMIT PLAN TO AUTHORITY HAVING JURISDICTION AND RECEIVE WRITTEN APPROVAL. EXACT LOCATION OF SMOKE DETECTORS SHALL BE VERIFIED.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
- STROBE LIGHTS SHALL BY SYNCHRONIZED.
- SUBMIT DRAWINGS INDICATING ALL DEVICES ON PLAN TOGETHER WITH DETAILED RISER DIAGRAM INDICATING ALL DEVICES AND WIRING. PROVIDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS
- SHOP DRAWINGS PREPARED BY INSTALLER SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.
- FACP TO MONITOR FIRE PUMP/MOTOR RUNNING, LOSS OF PHASE AND PHASE REVERSAL.
- FINAL WIRING AND DEVICE CONNECTIONS SHALL BE MADE UNDER DIRECT SUPERVISION OF MANUFACTURER'S REPRESENTATIVE.
- PROVIDE CERTIFIED TEST REPORT UPON COMPLETION.
- SYSTEM SUPPLIER SHALL SUPERVISE INSTALLATION, PROGRAM AND TEST SYSTEM AND INSTRUCT OWNER ON SYSTEM OPERATION. ALLOW IN BID FOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE 4 HOURS OF INSTRUCTION TO OWNER'S PERSONNEL IN SYSTEM OPERATION, MAINTENANCE AND TESTING.

NEW PANELBOARD										W	SCHEDULE																		
VOLTAGE: 208Y/120V-3PH-4W MAINS 225 MLO										MOUNTING										REMARKS: A.I.C. - 10K									
BUS SIZE: 225 AMP										TOTAL LOAD 51.4 KVA																			
No.	SERVES	LOAD (KVA)						BRKR	PH	LOAD (KVA)						SERVES	No.												
		LTG	RCPT	MTR	A/C	HTG	MISC			TRIP	A	B	C	TRIP	MISC			HTG	A/C	MTR	RCPT	LTG							
1	LIGHTING	1.30						20	1										1R - OUTDOOR	2									
3	SR - W. HALLWAY	1.0						20	1										1R - OUTDOOR	4									
5	SR - W. HALLWAY	1.0						20	1									7R - NURSE W06	6										
7	SPA - 1R DEDICATED	0.2						15G	1									1R - OUTDOOR	8										
9	2R - CHAIRS/OUTDOOR	0.4						20	1									1R - OUTDOOR	10										
11	ATTIC LIGHTS	1.00						20	1									EF-2	12										
13								20	1											14									
15								20	1											16									
17								20	1											18									
19								20	1											20									
21	ROOM 120 - A	0.04	0.8					20	1											22									
23	ROOM 120 - A	0.04	0.2					20	1											24									
25	ROOM 101 - A	0.04	0.8					20	1							0.8	0.04		ROOM 102 - A	26									
27	ROOM 101 - A	0.04	0.2					20	1							0.2	0.04		ROOM 102 - A	28									
29	ROOM 103 - B	0.07	1.4					20	1							1.4	0.07		ROOM 104 - B	30									
31	ROOM 103 - B	0.04	0.2					20	1							0.2	0.04		ROOM 104 - B	32									
33	ROOM 105 - B	0.07	1.4					20	1							1.4	0.07		ROOM 106 - B	34									
35	ROOM 105 - B	0.04	0.2					20	1							0.2	0.04		ROOM 106 - B	36									
37	ROOM 107 - B	0.07	1.4					20	1							1.4	0.07		ROOM 108 - B	38									
39	ROOM 107 - B	0.04	0.2					20	1							0.2	0.04		ROOM 108 - B	40									
41	ROOM 109 - B	0.07	1.4					20	1							1.4	0.07		ROOM 110 - B	42									
43	ROOM 109 - B	0.04	0.2					20	1							0.2	0.04		ROOM 110 - B	44									
45	ROOM 111 - B2	0.07	1.4					20	1							1.4	0.07		ROOM 112 - B	46									
47	ROOM 111 - B2	0.04	0.2					20	1							0.2	0.04		ROOM 112 - B	48									
49	ROOM 113 - B2	0.07	1.4					20	1							1.4	0.07		ROOM 114 - B	50									
51	ROOM 113 - B2	0.04	0.2					20	1							0.2	0.04		ROOM 114 - B	52									
53	ROOM 115 - B	0.07	1.4					20	1							1.4	0.07		ROOM 116 - B	54									
55	ROOM 115 - B	0.04	0.2					20	1							0.2	0.04		ROOM 116 - B	56									
57	ROOM 117 - B	0.07	1.4					20	1							1.4	0.07		ROOM 118 - B	58									
59	ROOM 117 - B	0.04	0.2					20	1							0.2	0.04		ROOM 118 - B	60									
61	ROOM 119 - A	0.04	0.8					20	1							0.8	0.04		ROOM 121 - A2	62									
63	ROOM 119 - A	0.04	0.2					20	1							0.2	0.04		ROOM 121 - A2	64									
65	ROOM 122 - A	0.04	0.8					20	1							0.8	0.04		ROOM 123 - A	66									
67	ROOM 122 - A	0.04	0.2					20	1							0.2	0.04		ROOM 123 - A	68									
69	ROOM 124 - A	0.04	0.8					20	1							0.8	0.04		ROOM 125 - A	70									
71	ROOM 124 - A	0.04	0.2					20	1							0.2	0.04		ROOM 125 - A	72									
73	ROOM 126 - A	0.04	0.8					20	1							0.8	0.04		ROOM 127 - A	74									
75	ROOM 126 - A	0.04	0.2					20	1							0.2	0.04		ROOM 127 - A	76									
77	ROOM 128 - A	0.04	0.8					20	1							0.8	0.04		ROOM 129 - A	78									
79	ROOM 128 - A	0.04	0.2					20	1							0.2	0.04		ROOM 129 - A	80									
81	ROOM 130 - A	0.04	0.8					20	1							0.8	0.04		ROOM 131 - A	82									
83	ROOM 130 - A	0.04	0.2					20	1							0.2	0.04		ROOM 131 - A	84									
NOTES:										0.7 45.4 5.34 CONNECTED KVA										51									

Largest Motor	0.70	125%
Remaining Motors	0.88	
Motor Demand	0.88	
Lighting	5.34	125%
Lighting Demand	6.67	
Receptacles	10.00	100%
Receptacles	35.40	50%
Receptacle Demand	27.70	
Miscellaneous		
Heating		
AC		
Design Load for Panel Total	35 KVA	
	97.9 Amps	

NEW PANELBOARD										HW	SCHEDULE										
VOLTAGE: 208Y/120V-3PH-4W MAINS 225 MLO BUS SIZE: 225 AMP TOTAL LOAD 71.4 KVA										MOUNTING REMARKS: A.I.C. - 10K											
No.	SERVES	LOAD (KVA)					BRKR					LOAD (KVA)					SERVES	No.			
		LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	P	A	B	C	TRIP	MISC	HTG	A/C			MTR	RCPT	LTG
1	ROOM 101 - A					1.8							2							ROOM 102 - A	2
3	ROOM 101 - A												2							ROOM 102 - A	4
5	ROOM 103 - B					2.4							2				2.4			ROOM 104 - B	6
7	ROOM 103 - B												2							ROOM 104 - B	8
9	ROOM 105 - B					2.4							2				2.4			ROOM 106 - B	10
11	ROOM 105 - B												2							ROOM 106 - B	12
13	ROOM 107 - B					2.4							2				2.4			ROOM 108 - B	14
15	ROOM 107 - B												2							ROOM 108 - B	16
17	ROOM 109 - B					2.4							2				2.4			ROOM 110 - B	18
19	ROOM 109 - B												2							ROOM 110 - B	20
21	ROOM 111 - B					2.4							2				2.4			ROOM 112 - B	22
23	ROOM 111 - B												2							ROOM 112 - B	24
25	ROOM 113 - B					2.4							2							ROOM 114 - B	26
27	ROOM 113 - B												2				2.4			ROOM 114 - B	28
29	ROOM 115 - B					2.4							2				2.4			ROOM 116 - B	30
31	ROOM 115 - B												2							ROOM 116 - B	32
33	ROOM 117 - B					2.4							2				2.4			ROOM 118 - B	34
35	ROOM 117 - B												2							ROOM 118 - B	36
37	ROOM 119 - A					1.8							2				1.8			ROOM 120 - A	38
39	ROOM 119 - A												2							ROOM 120 - A	40
41	ROOM 121 - A					1.8							2				1.8			ROOM 122 - A	42
43	ROOM 121 - A												2							ROOM 122 - A	44
45	ROOM 123 - A					1.8							2				1.8			ROOM 124 - A	46
47	ROOM 123 - A												2							ROOM 124 - A	48
49	ROOM 125 - A					1.8							2				1.8			ROOM 126 - A	50
51	ROOM 125 - A												2							ROOM 126 - A	52
53	ROOM 127 - A					1.8							2				1.8			ROOM 128 - A	54
55	ROOM 127 - A												2							ROOM 128 - A	56
57	ROOM 129 - A					1.8							2				1.8			ROOM 130 - A	58
59	ROOM 129 - A												2							ROOM 130 - A	60
61	ROOM 131 - A					1.8							2					3.0		EH-2	62
63	ROOM 131 - A												2							EH-2	64
65	EH-1												2								66
67	EH-1												2								68
69													1								70
71													1								72
NOTES:										0.0 31.8 33.6 6.0 0.0 0.0 CONNECTED KVA										71	

Largest Motor	0.00	125%
Remaining Motors	6.00	
Motor Dmd	6.00	
Lighting	0.00	125%
Lighting Dmd	0.00	
Receptacles	0.00	100%
Receptacles	0.00	50%
Receptacle Dmd	0.00	
Miscellaneous		
Heating	31.8	75% 24
AC	33.6	
Design Load for Panel Total	30 KVA	
	82.9 Amps	

NEW PANEL										LS			SCHEDULE												
VOLTAGE: 208Y/120V BUS SIZE: 100 AMP										TOTAL LOAD 7.5 KVA			MOUNTING SURFACE			REMARKS:									
No.	SERVES	LOAD (KVA)						BRKR	TRIP	P	PH			BRKR	LOAD (KVA)						LTG	SERVES	No.		
		LTG	RCPT	MTR	A/C	HTG	MISC				A	B	C		P	TRIP	MISC	HTG	A/C	MTR				RCPT	
1	LIGHTING - CENTER	0.5						20	1					1	20						0.9	LIGHTING - W COORIDOR			
3	LIGHTING - EXT. CENTR	1.1						20	1					1	20						0.7	LIGHTING - W DINNING Q04			
5	LIGHTING - RWY. AOT. Q02 Q01	1.1						20	1					1	20						0.8	LIGHTING - N COORIDOR			
7	BATTERY CHARGER							20	1					1	20						0.6	LIGHTING - N LOUNGE N05			
9	BLOCK HTR.							20	1					1	20						0.7	LIGHTING - N DINING N04			
11								20	1					1	20						0.6	LIGHTING - W LOUNGE W05			
13								20	1					1	20	0.2					DOOR BE-PS - ELEC. RGS				
15								1	1					1	20	0.2					FACP - ELEC. RM C25				
17								1	1					1	20	0.2					NURSE CALL				
19								1	1					1									2		
21								1	1					1									2		
23								1	1					1									2		
25								1	1					1									2		
27								1	1					1									2		
29								1	1					1									2		
31								1	1					1									2		
33								1	1					1									2		
35								1	1					1									2		
37								1	1					1									2		
39								1	1					1									2		
41								1	1					1									2		
43								1	1					1									2		
45								1	1					1									2		
47								1	1					1									2		
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51								1	1					1									2		
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117								1	1					1									2		
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127								1	1					1									2		
129								1	1					1									2		
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203								1	1					1									2		
205								1	1					1									2		
207								1	1					1									2		
209								1	1					1									2		
211								1	1					1									2		
213																									

NEW PANELBOARD						CN		SCHEDULE												
VOLTAGE: 208Y/120V-3PH-4W						MAINS		MLO		MOUNTING		REMARKS:								
BUS SIZE: 200 AMP						TOTAL LOAD		0.0 KVA												
No.	SERVES	LOAD (KVA)				BRKR		LOAD (KVA)				SERVES	No.							
		LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	P	A	B	C								
1	LIGHTING								1	1	1	1	REFRIG-7							
3	1-TOASTER								1	1	1	1	FR2K-42							
5	5A-350H DISP								1	1	1	1	MW-20-1							
7	10-2-HOT WELL								2	1	1	1	HTD. CAB.-57							
9	10-2-HOT WELL								2	1	1	1	3R							
11	56-ICE CUBER								1	1	1	1	3R							
13	2R								1	1	1	1	3R							
15	2R								1	1	1	1	1R							
17	1R REFRIG								1	1	1	1	1R							
19	1R								1	1	1	1	2R (TV's)							
21	DOOR SEC								1	1	1	1	EF-6							
23	DOOR SEC								1	1	1	1	DATA SYS							
25	4R								1	1	1	1	4R							
27	4R								1	1	1	1	4R							
29	4R								1	1	1	1	4R							
31	4R								1	1	1	1	4R							
33	4R								1	1	1	1	4R							
35	4R								1	1	1	1	4R							
37	1								1	1	1	1	4R							
39	6R								1	1	1	1	4R							
41	AQU-3								1	1	1	1	AQU-4							
43	CU-3								2	2	2	2	CU-4							
45	CU-3								2	2	2	2	CU-4							
47	CU-3								2	2	2	2	CU-4							
49									1	1	1	1								
51									1	1	1	1								
53									1	1	1	1								
55									1	1	1	1								
57									1	1	1	1								
59									1	1	1	1								
61									1	1	1	1								
63									1	1	1	1								
65									1	1	1	1								
67									1	1	1	1								
69									1	1	1	1								
71									1	1	1	1								
												0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	0

NOTES:

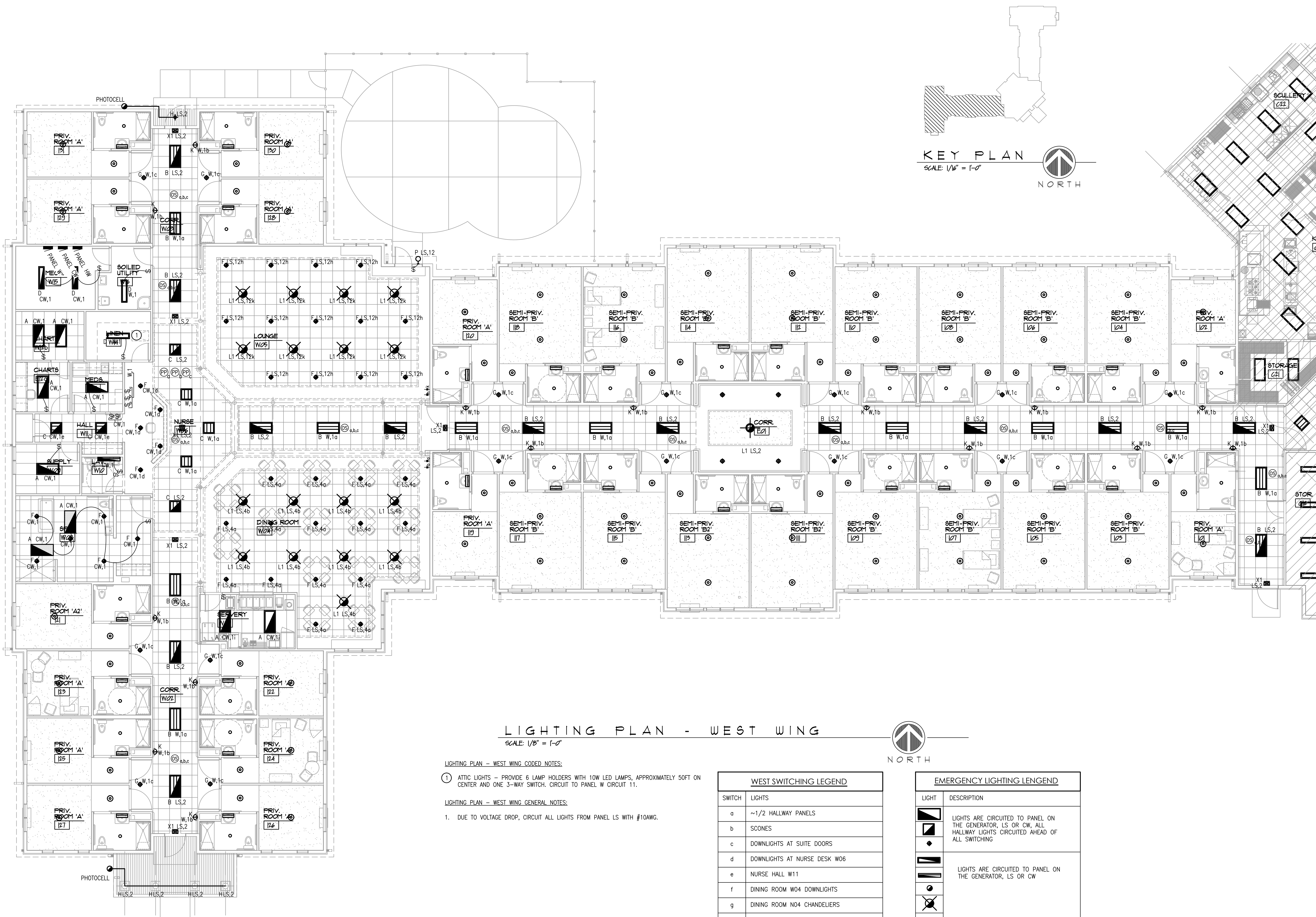
Largest Motor	0.00	125%
Remaining Motors	0.00	
Motor Dmd	0.00	
Lighting	0.00	125%
Lighting Dmd	0.00	
Receptacles	0.00	100%
Receptacles	0.00	50%
Receptacle Dmd	0.00	
Miscellaneous	0.0	75% 0
Heating	0.0	
AC	0.0	
Design Load for Panel Total	0 KVA	
	0 Amps	

NEW PANELBOARD										HN		SCHEDULE															
VOLTAGE: 208Y/120V-3PH-4W										MAINS		MLO		MOUNTING										REMARKS:			
BUS SIZE: 200 ANIP										LOAD (KVA)		TOTAL LOAD		0.0 KVA													
No.	SERVES	LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	BRKR	PH		BRKR		LOAD (KVA)								SERVES	No.				
										P	A	B	C	P	TRIP	MISC	HTG	A/C	MTR	RCPT	LTG						
1	ROOM 201									2	1	2	2										ROOM 202	2			
3	ROOM 201									2	1	2	2										ROOM 202	4			
5	ROOM 203									2	1	2	2										ROOM 204	6			
7	ROOM 203									2	1	2	2										ROOM 204	8			
9	ROOM 205									2	1	2	2										ROOM 206	10			
11	ROOM 205									2	1	2	2										ROOM 206	12			
13	ROOM 207									2	1	2	2										ROOM 208	14			
15	ROOM 207									2	1	2	2										ROOM 208	16			
17	ROOM 209									2	1	2	2										ROOM 210	18			
19	ROOM 209									2	1	2	2										ROOM 210	20			
21	ROOM 211									2	1	2	2										ROOM 212	22			
23	ROOM 211									2	1	2	2										ROOM 212	24			
25	ROOM 213									2	1	2	2										ROOM 214	26			
27	ROOM 213									2	1	2	2										ROOM 214	28			
29	ROOM 215									2	1	2	2										ROOM 216	30			
31	ROOM 215									2	1	2	2										ROOM 216	32			
33	ROOM 217									2	1	2	2										ROOM 218	34			
35	ROOM 217									2	1	2	2										ROOM 218	36			
37	ROOM 219									2	1	2	2										ROOM 220	38			
39	ROOM 219									2	1	2	2										ROOM 220	40			
41	ROOM 221									2	1	2	2										ROOM 222	42			
43	ROOM 221									2	1	2	2										ROOM 222	44			
45	ROOM 223									2	1	2	2										ROOM 224	46			
47	ROOM 223									2	1	2	2										ROOM 224	48			
49	ROOM 225									2	1	2	2										ROOM 226	50			
51	ROOM 225									2	1	2	2										ROOM 226	52			
53	ROOM 227									2	1	2	2										ROOM 228	54			
55	ROOM 227									2	1	2	2										ROOM 228	56			
57	ROOM 229									2	1	2	2										ROOM 230	58			
59	ROOM 229									2	1	2	2										ROOM 230	60			
61	EH-3									2	1	2	2										EH-4	62			
63	EH-3									2	1	2	2										EH-4	64			
65										2	1	2	2											66			
67										2	1	2	2											68			
69										1	1	1	1											70			
71										1	1	1	1											72			
												0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	0						

NOTES:

Largest Motor	0.00	125%
Remaining Motors	0.00	
Motor Dmd	0.00	
Lighting	0.00	125%
Lighting Dmd	0.00	
Receptacles	0.00	100%
Receptacles	0.00	50%
Receptacle Dmd	0.00	
Miscellaneous	0.0	75% 0
Heating	0.0	
AC	0.0	
Design Load for Panel Total	0 KVA	
	0 Amps	

NEW PANELBOARD										HN		SCHEDULE															
VOLTAGE: 208Y/120V-3PH-4W										MAINS		MLO		MOUNTING		REMARKS:											
BUS SIZE: 200 AMP										LOAD (KVA)		TOTAL LOAD		0.0 KVA													
No.	SERVES	LOAD (KVA)					BRKR		PH		BRKR		LOAD (KVA)					SERVES	No.								
		LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	P	A	B	C	P	TRIP	MISC	HTG	A/C			MTR	RCPT	LTG					
1	ROOM 201								2	1	1	1	1							ROOM 202	2						
3	ROOM 201								2	1	1	1	1							ROOM 202	4						
5	ROOM 203								2	1	1	1	1							ROOM 204	6						
7	ROOM 203								2	1	1	1	1							ROOM 204	8						
9	ROOM 205								2	1	1	1	1							ROOM 206	10						
11	ROOM 205								2	1	1	1	1							ROOM 206	12						
13	ROOM 207								2	1	1	1	1							ROOM 208	14						
15	ROOM 207								2	1	1	1	1							ROOM 208	16						
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19	ROOM 209								2	1	1	1	1							ROOM 210	20						
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31	ROOM 215								2	1	1	1	1							ROOM 216	32						
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37	ROOM 219								2	1	1	1	1							ROOM 220	38						
39	ROOM 219								2	1	1	1	1							ROOM 220	40						
41	ROOM 221								2	1	1	1	1							ROOM 222	42						
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55	ROOM 227								2	1	1	1	1							ROOM 228	56						
57	ROOM 229								2	1	1	1	1							ROOM 230	58						
59	ROOM 229								2	1	1	1	1							ROOM 230	60						
61	EH-3								2	1	1	1	1							EH-4	62						
63	EH-3								2	1	1	1	1							EH-4	64						
65									2	1	1	1	1								66						
67									2	1	1	1	1								68						
69									1	1	1	1	1								70						
71								1	1	1	1	1	1								72						
														0.0		0.0		0.0		0.0		0.0		0.0		CONNECTED KVA	



LIGHTING PLAN - WEST WING

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

LIGHTING PLAN - WEST WING CODED NOTES:

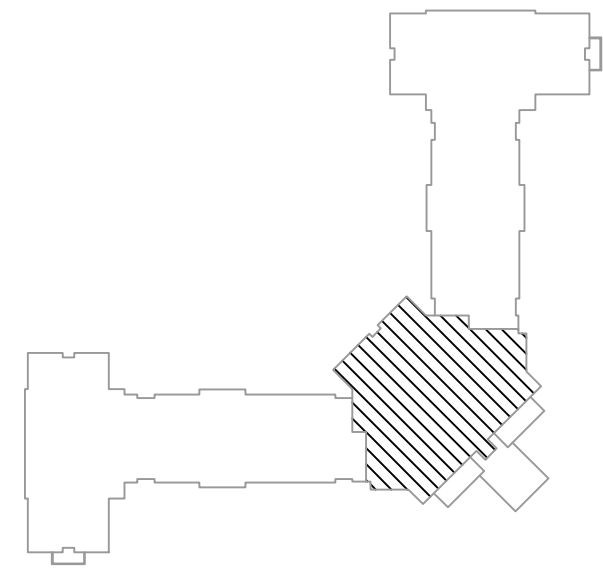
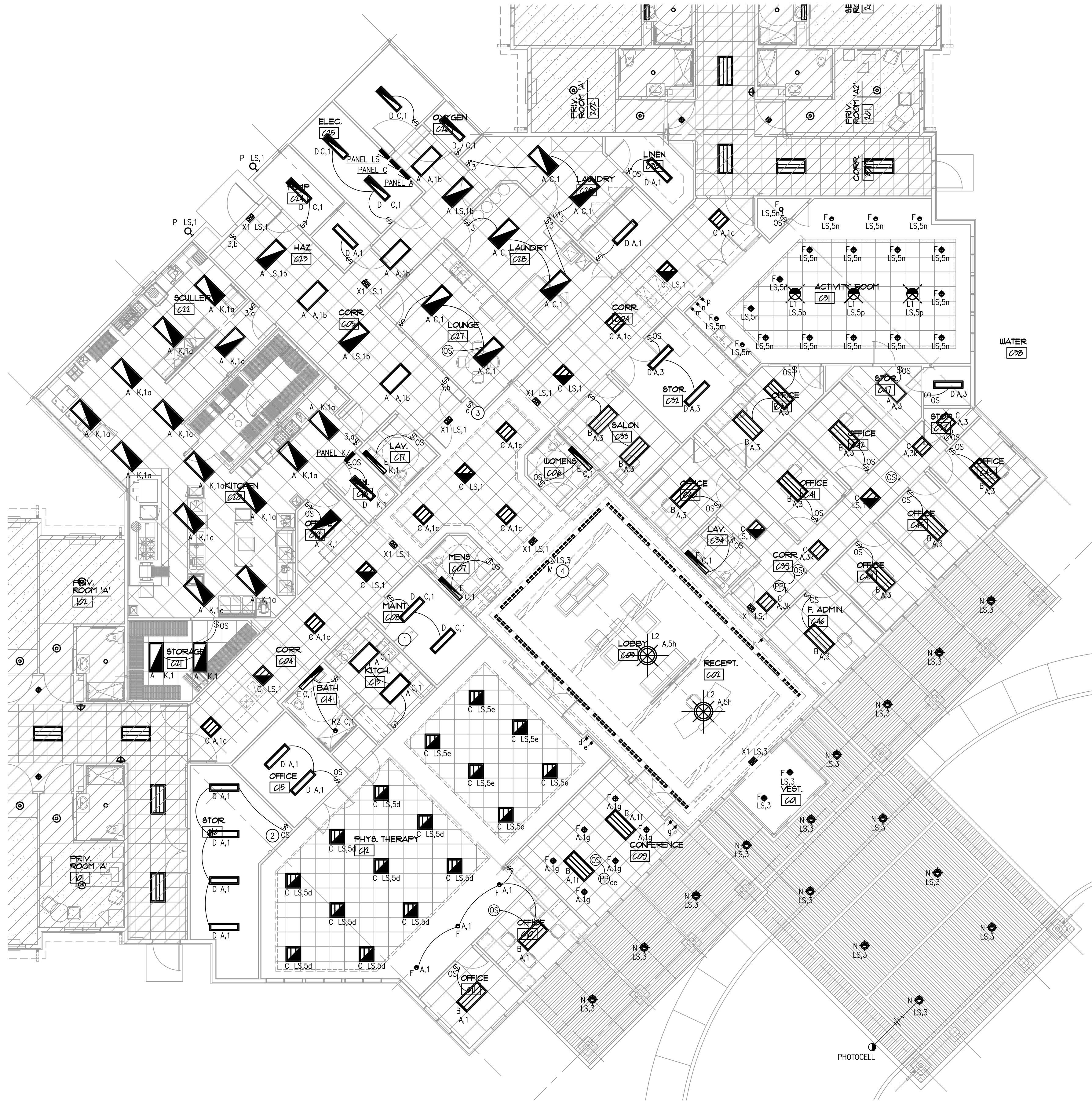
- 1 ATTIC LIGHTS - PROVIDE 6 LAMP HOLDERS WITH 10W LED LAMPS, APPROXIMATELY SOFT ON CENTER AND ONE 3-WAY SWITCH. CIRCUIT TO PANEL W CIRCUIT 11.

LIGHTING PLAN - WEST WING GENERAL NOTES:

1. DUE TO VOLTAGE DROP, CIRCUIT ALL LIGHTS FROM PANEL LS WITH #10AWG.

WEST SWITCHING LEGEND	
SWITCH	LIGHTS
a	~1/2 HALLWAY PANELS
b	SCONES
c	DOWNLIGHTS AT SUITE DOORS
d	DOWNLIGHTS AT NURSE DESK W06
e	NURSE HALL W11
f	DINING ROOM W04 DOWNLIGHTS
g	DINING ROOM N04 CHANDELIERS
h	LOUNGE W05 DOWNLIGHTS
k	LOUNGE W05 CHANDELIERS

EMERGENCY LIGHTING LENDEND	
LIGHT	DESCRIPTION
	LIGHTS ARE CIRCUITED TO PANEL ON THE GENERATOR, LS OR CW, ALL HALLWAY LIGHTS CIRCUITED AHEAD OF ALL SWITCHING
	LIGHTS ARE CIRCUITED TO PANEL ON THE GENERATOR, LS OR CW



KEY PLAN

SCALE: 1/16" = 1'-0"



EMERGENCY LIGHTING LENGEND	
LIGHT	DESCRIPTION
	LIGHTS ARE CIRCUITED TO PANEL ON GENERATOR, LS OR CN, ALL HALLWAY LIGHTS CIRCUITED AHEAD OF ALL SWITCHING.
	LIGHTS ARE CIRCUITED TO PANEL ON GENERATOR, LS OR CN.

LIGHTING PLAN - CENTER CODED NOTES:

- ATTIC LIGHTS - PROVIDE ONE THREE-WAY SWITCH AND CONNECT TO PANEL W, CIRCUIT 11 FOR ATTIC LIGHTS. SEE DETAILS ON SHEET E1.1. PROVIDE A SECOND THREE-WAY SWITCH AND CONNECT TO PANEL N, CIRCUIT 11 FOR ATTIC LIGHTS. SEE DETAILS ON SHEET E1.3.
- VERIFY LOCATION OF LIGHT SWITCH IN THE FIELD WITH ARCHITECT/OWNER.
- HALLWAY LIGHTING CONTROL, VERIFY SWITCH LOCATION WITH OWNER/ARCHITECT.
- LED STRIPS IN THE FLOOR.

LIGHTING PLAN - CENTER GENERAL NOTES:

- DUE TO VOLTAGE DROP, CIRCUIT ALL LIGHTS FROM PANEL LS WITH #10AWG.

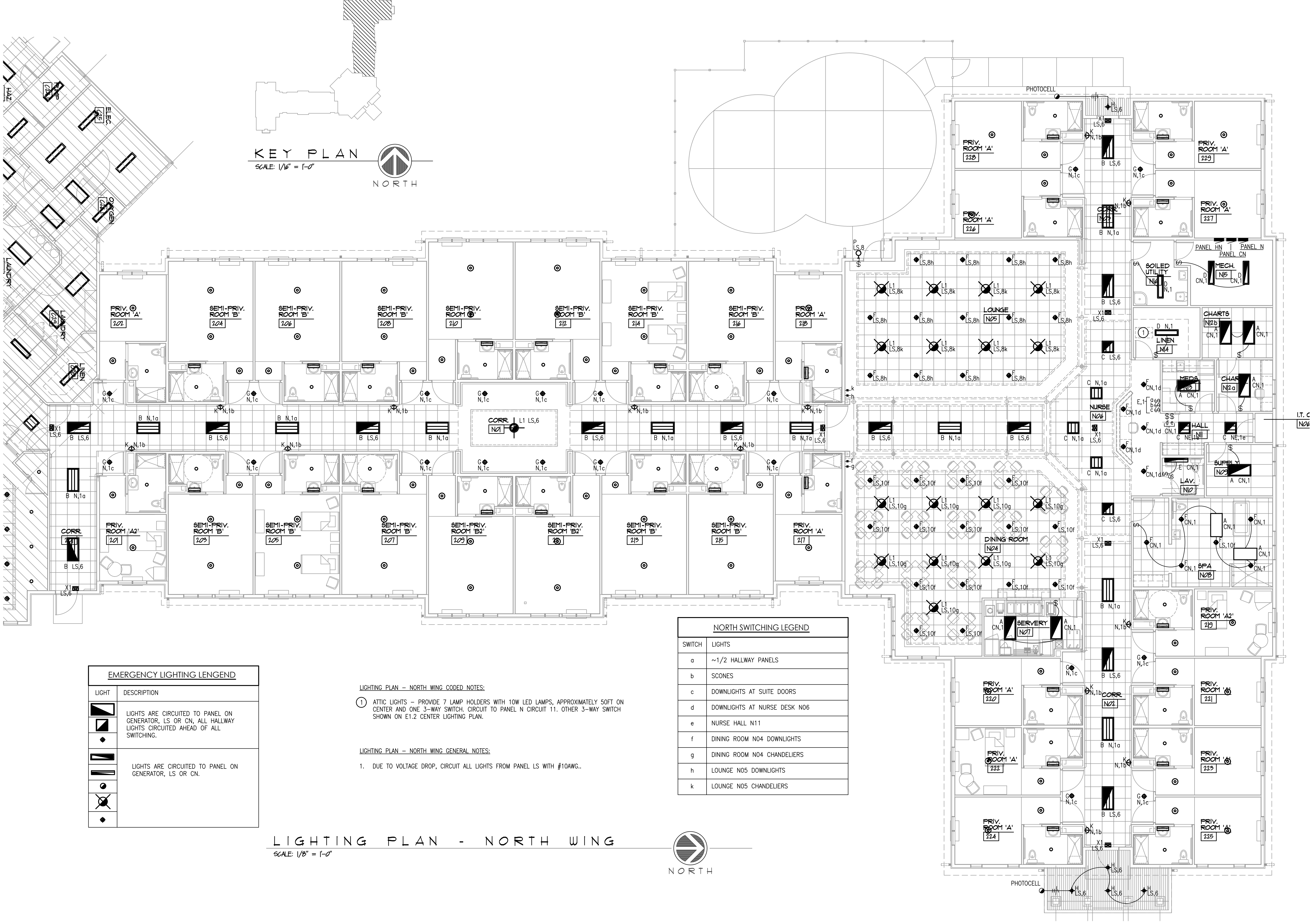
CENTER SWITCHING LEGEND	
SWITCH	LIGHTS
a	KITCHEN / SCULLER
b	CORRIDOR C05
c	CORRIDOR C04
d	PHYSICAL THERAPY, C12
e	PHYSICAL THERAPY C12 LOBBY
f	CONFERENCE ROOM PANEL C09
g	CONFERENCE ROOM DOWNLIGHTS C09
h	LOBBY CHANDELIERS, C03
k	CORRIDOR C39
m	ACTIVITY ROOM KITCHETTE
n	ACTIVITY ROOM DOWNLIGHTS
p	ACTIVITY ROOM CHANDELIERS

LIGHTING PLAN - CENTER

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



NEW 90 BED SKILLED NURSING FACILITY
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONETA, FRANKLIN COUNTY, VIRGINIA



KEY PLAN
SCALE: 1/16" = 1'-0"
NORTH

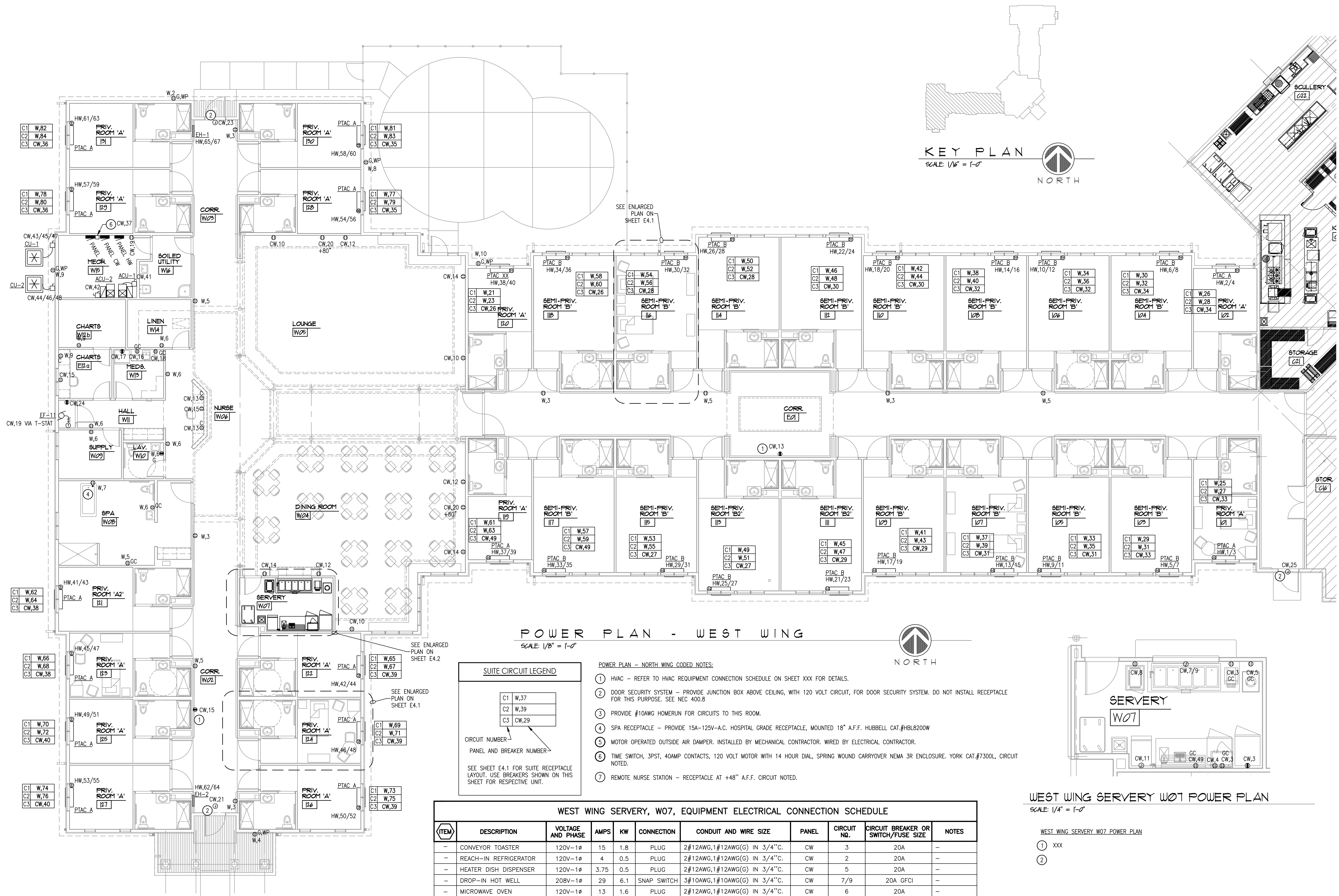
EMERGENCY LIGHTING LENDEND	
LIGHT	DESCRIPTION
	LIGHTS ARE CIRCUITED TO PANEL ON GENERATOR, LS OR CN, ALL HALLWAY LIGHTS CIRCUITED AHEAD OF ALL SWITCHING.
	LIGHTS ARE CIRCUITED TO PANEL ON GENERATOR, LS OR CN.

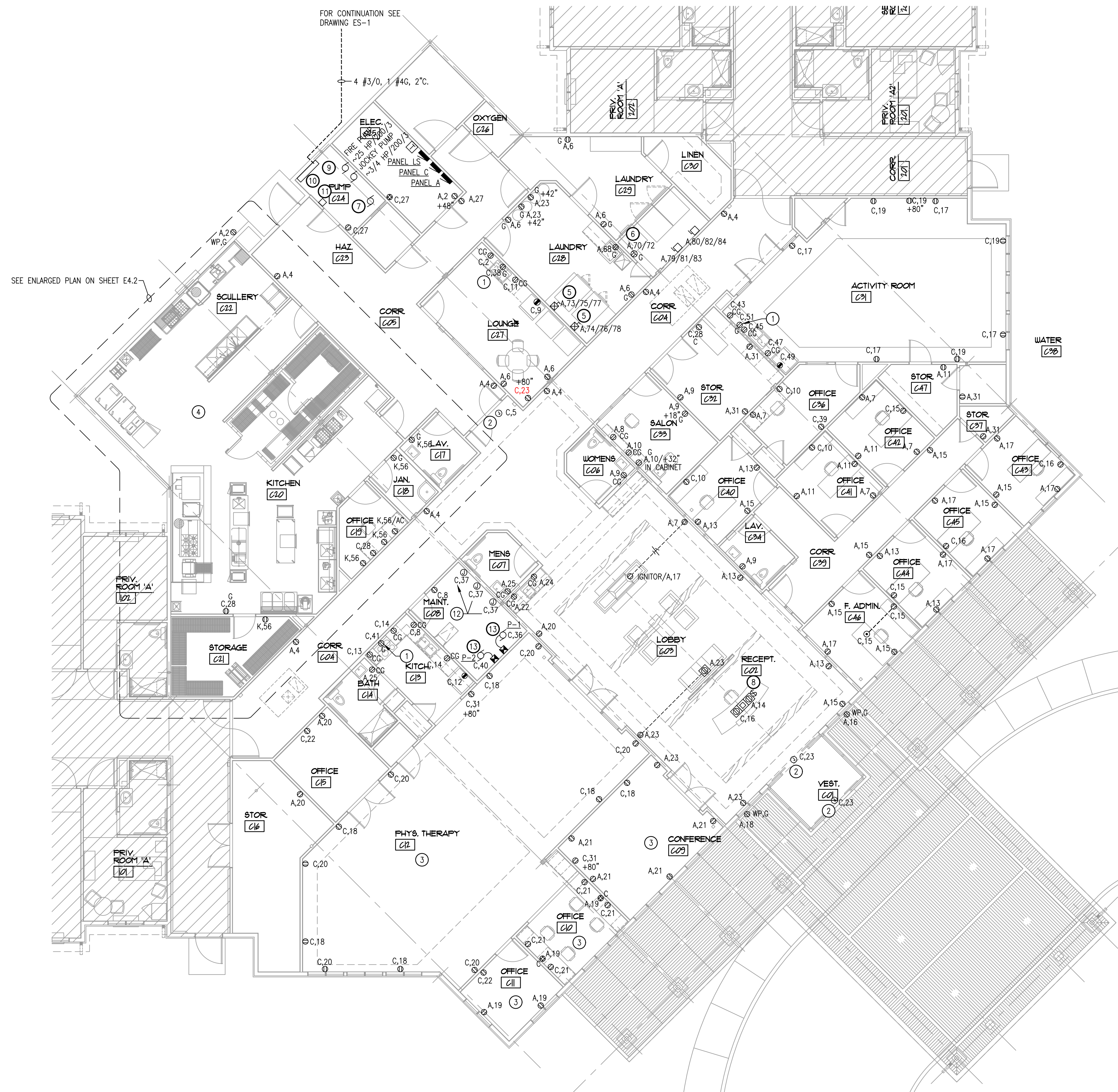
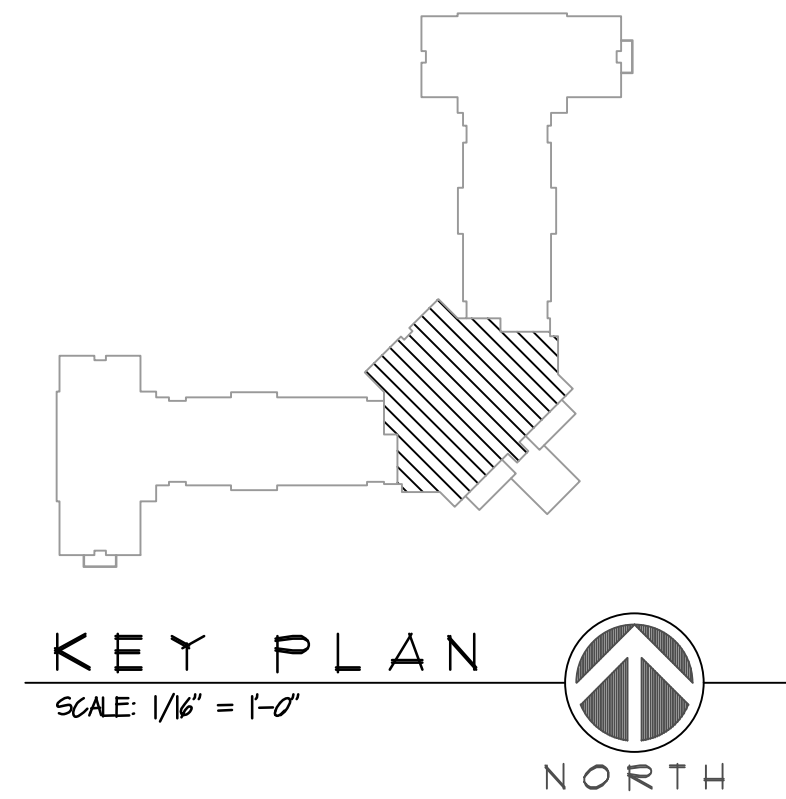
LIGHTING PLAN - NORTH WING CODED NOTES:
① ATTIC LIGHTS - PROVIDE 7 LAMP HOLDERS WITH 10W LED LAMPS, APPROXIMATELY 50FT ON CENTER AND ONE 3-WAY SWITCH. CIRCUIT TO PANEL N CIRCUIT 11. OTHER 3-WAY SWITCH SHOWN ON E1.2 CENTER LIGHTING PLAN.

LIGHTING PLAN - NORTH WING GENERAL NOTES:
1. DUE TO VOLTAGE DROP, CIRCUIT ALL LIGHTS FROM PANEL LS WITH #10AWG..

NORTH SWITCHING LEGEND	
SWITCH	LIGHTS
a	~1/2 HALLWAY PANELS
b	SCONES
c	DOWNLIGHTS AT SUITE DOORS
d	DOWNLIGHTS AT NURSE DESK N06
e	NURSE HALL N11
f	DINING ROOM N04 DOWNLIGHTS
g	DINING ROOM N04 CHANDELIERS
h	LOUNGE N05 DOWNLIGHTS
k	LOUNGE N05 CHANDELIERS

LIGHTING PLAN - NORTH WING
SCALE: 1/8" = 1'-0"
NORTH





POWER PLAN - CENTER CODED NOTES:

- 1 MICROWAVE
- 2 PROVIDE JUNCTION BOX ABOVE CEILING WITH 120V CIRCUIT FOR DOOR SECURITY SYSTEM.
- 3 PROVIDE #10AWG IN THIS ROOM.
- 4 REFER TO SHEET E4.2 FOR KITCHEN POWER PLAN AND EQUIPMENT.
- 5 PROVIDE 3 FRN20 FUSES.
- 6 PROVIDE 3#10AWG, 1#10AWG(G) 1/2"C, CONNECT TO PANEL A CIRCUIT 70, 72.
- 7 AIR COMPRESSOR
- 8 SWITCH TO TURN OF DOOR OPERATORS.
- 9 CABLE AC, MC, OR NM NOT ALLOWED IN FIRE PUMP ROOM.
- 10 PROVIDE 2#12AWG, 1#12AWG(G) 1/2"C FOR CONTROL POWER TO FIRE PUMP CONTROLLER, PANEL C, CIRCUIT 53.
- 11 PROVIDE 9#12AWG, 1#12AWG(G) 3/4"C TO FACP FOR FIRE PUMP ALARMS.
- 12 ELECTRONIC IGNITION
- 13 HOT WATER CIRCULATING PUMP - 120V-1Ø, .5 KW ANTICIPATED, PROVIDE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD, MOUNTED 48" A.F.F. OR ON EQUIPMENT. SQUARE D CLASS 210 TYPE FG1, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

POWER PLAN - CENTER

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

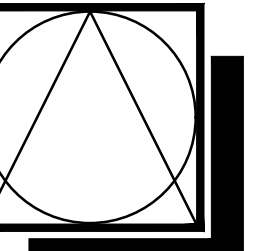


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NEW 90 BED SKILLED NURSING FACILITY
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONETA, FRANKLIN COUNTY, VIRGINIA

DSCA PROJECT NO.
23046

E2.2



DSC
ARCHITECTS
401 FRONT STREET
BEREA, OHIO 44017
PHONE: 440.835.3957
mail@dscarchitects.com

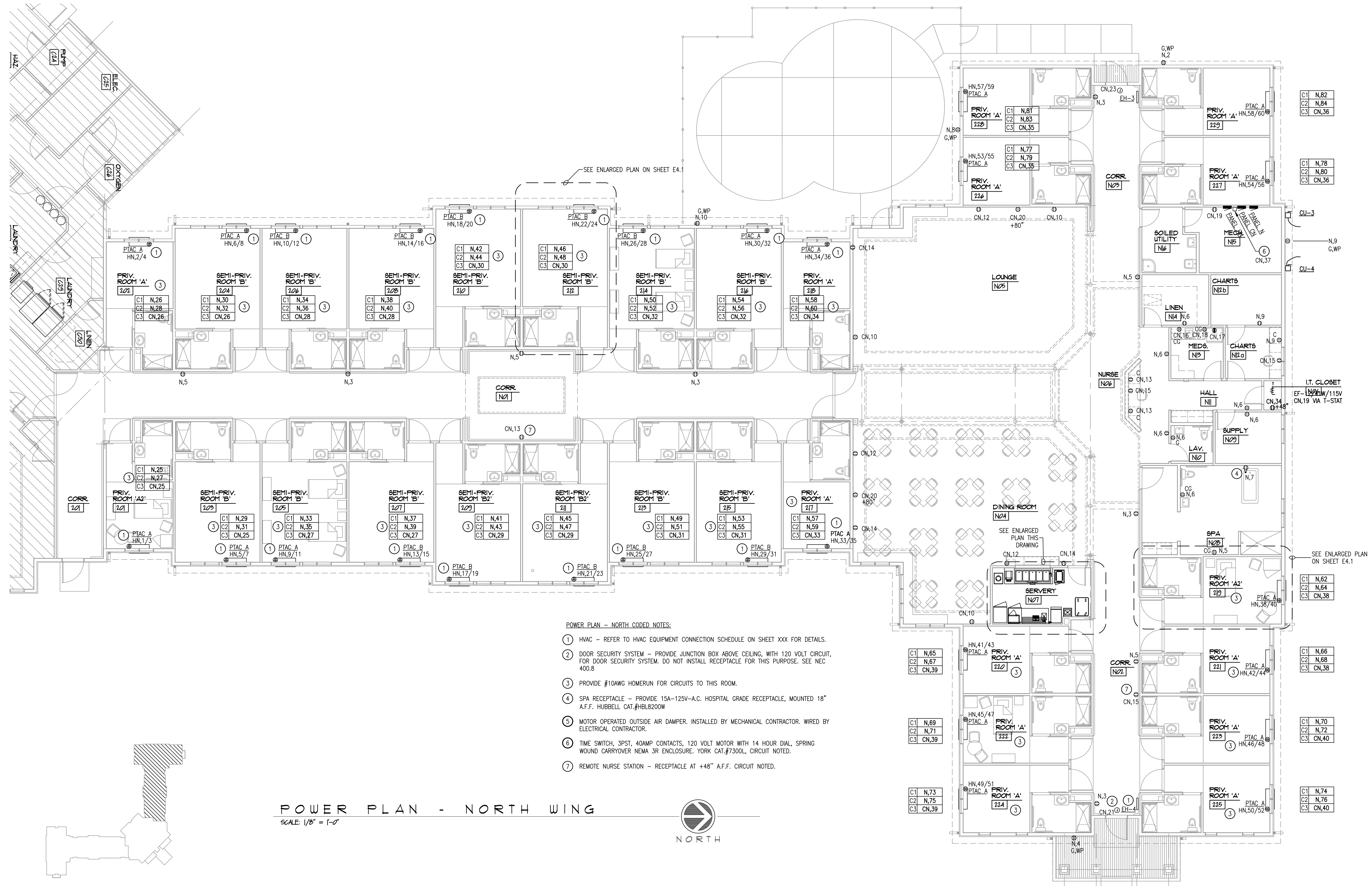
DATE:
PRICING SET:
03/11/24

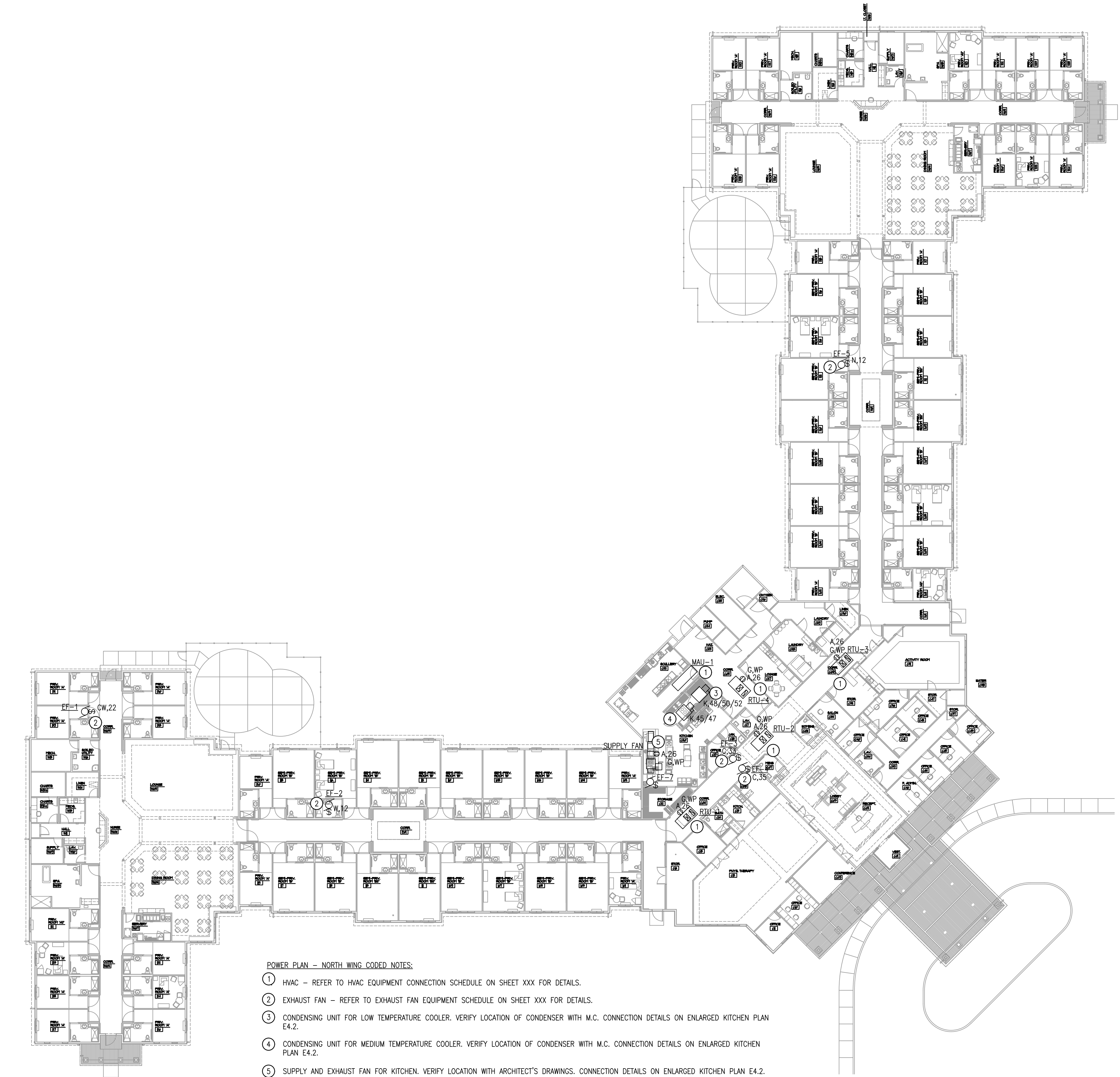
NEW 90 BED SKILLED NURSING FACILITY
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONEA, FRANKLIN COUNTY, VIRGINIA

PRELIMINARY
NOT FOR CONSTRUCTION

DSCA PROJECT NO.
23046

E2.3





POWER PLAN - NORTH WING CODED NOTES:

- 1 HVAC - REFER TO HVAC EQUIPMENT CONNECTION SCHEDULE ON SHEET XXX FOR DETAILS.
- 2 EXHAUST FAN - REFER TO EXHAUST FAN EQUIPMENT SCHEDULE ON SHEET XXX FOR DETAILS.
- 3 CONDENSING UNIT FOR LOW TEMPERATURE COOLER. VERIFY LOCATION OF CONDENSER WITH M.C. CONNECTION DETAILS ON ENLARGED KITCHEN PLAN E4.2.
- 4 CONDENSING UNIT FOR MEDIUM TEMPERATURE COOLER. VERIFY LOCATION OF CONDENSER WITH M.C. CONNECTION DETAILS ON ENLARGED KITCHEN PLAN E4.2.
- 5 SUPPLY AND EXHAUST FAN FOR KITCHEN. VERIFY LOCATION WITH ARCHITECT'S DRAWINGS. CONNECTION DETAILS ON ENLARGED KITCHEN PLAN E4.2.

ROOF ELECTRICAL PLAN

SCALE: 1" = 10'-0"





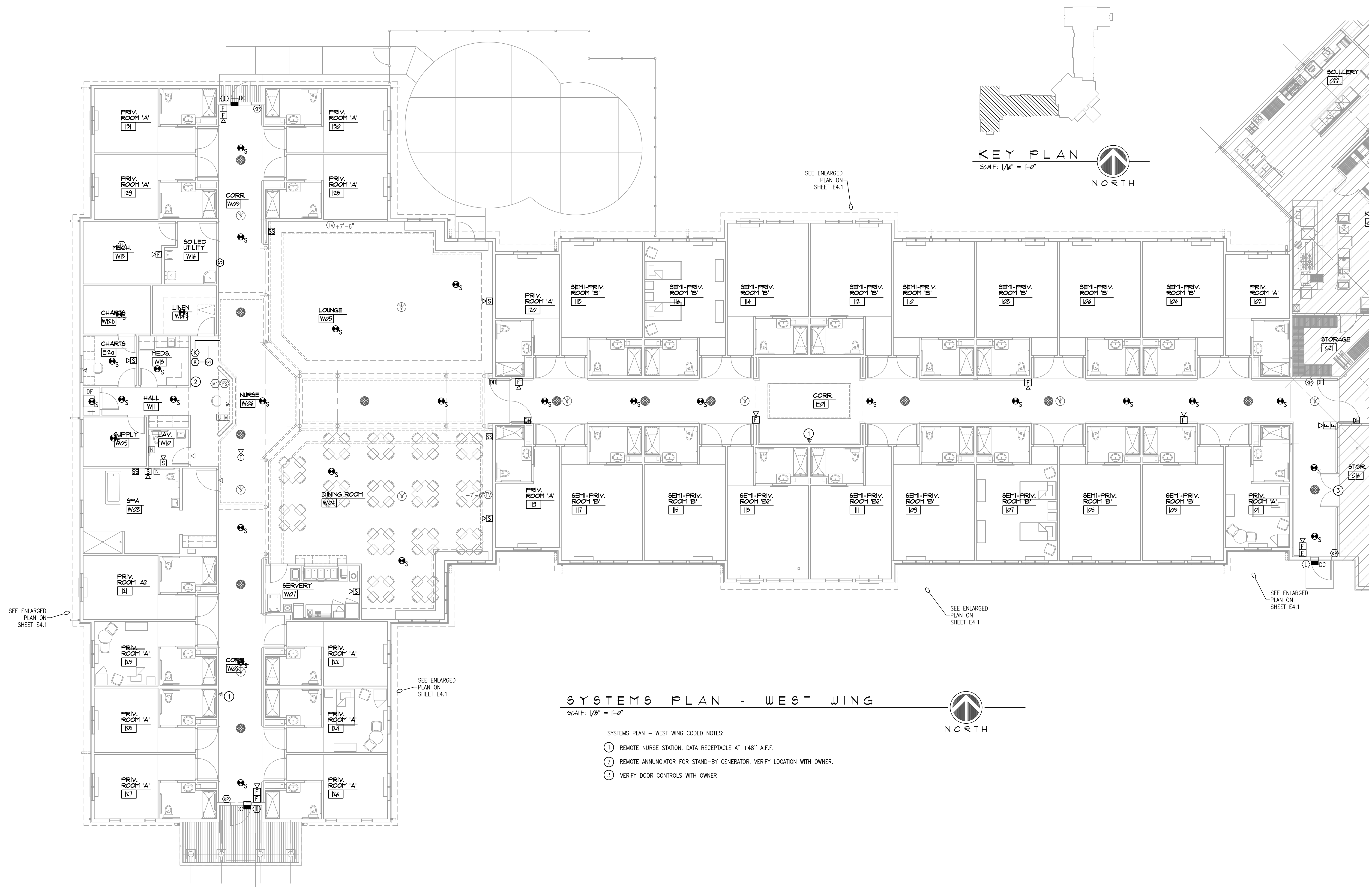
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SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONETA, FRANKLIN COUNTY, VIRGINIA

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046

3.1

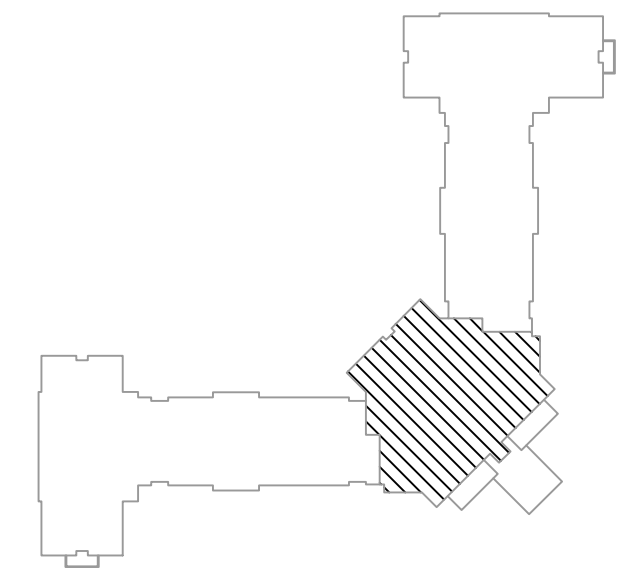


2024-03-11 - 1/8" = 1'-0"



SYSTEMS PLAN - CENTER CODED NOTES:

- 1 PROVIDE (2)-2" CONDUITS FROM MDF TO EACH IDF. SEE DRAWINGS E3.1 AND 3.3 FOR IDF LOCATIONS.
- 2



KEY PLAN
SCALE: 1/16" = 1'-0"
NORTH

SYSTEMS PLAN - CENTER
SCALE: 1/8" = 1'-0"





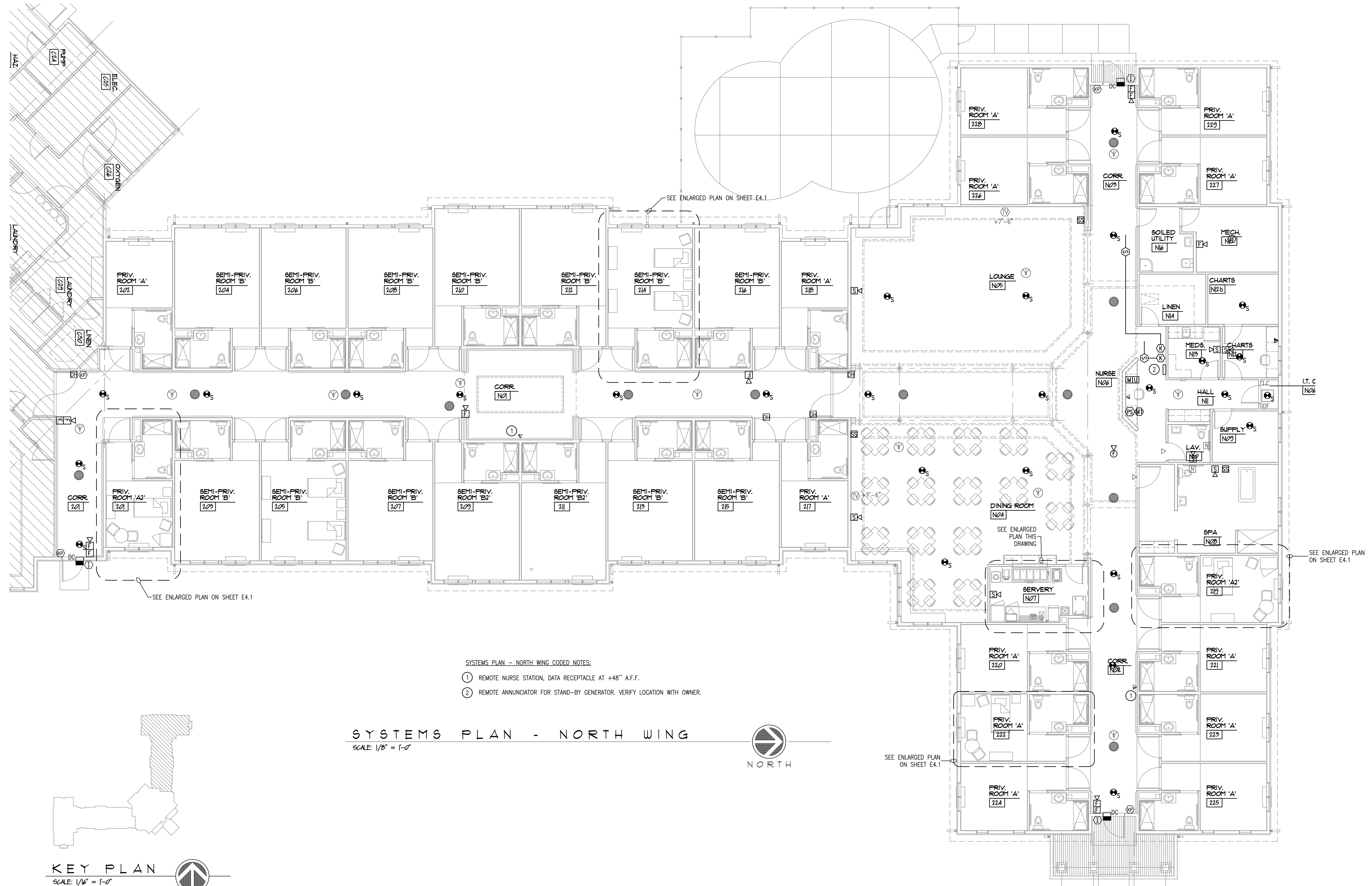
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SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONETA, FRANKLIN COUNTY, VIRGINIA

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046

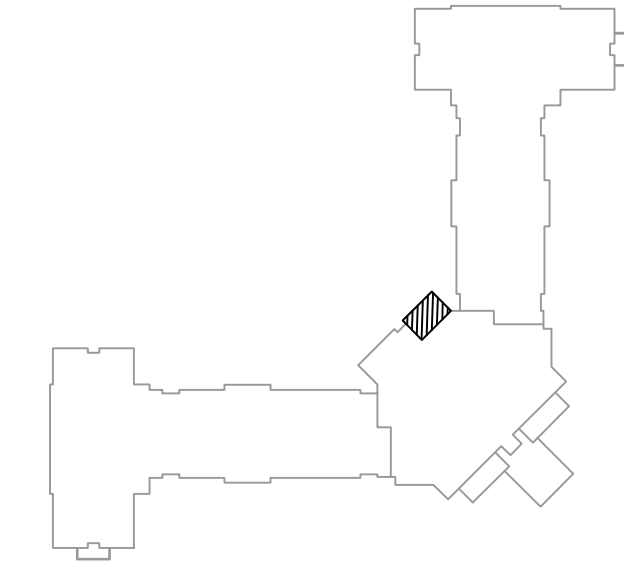
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2024-03-11 - 1/8" = 1'-0"



DATE: 03/11/24

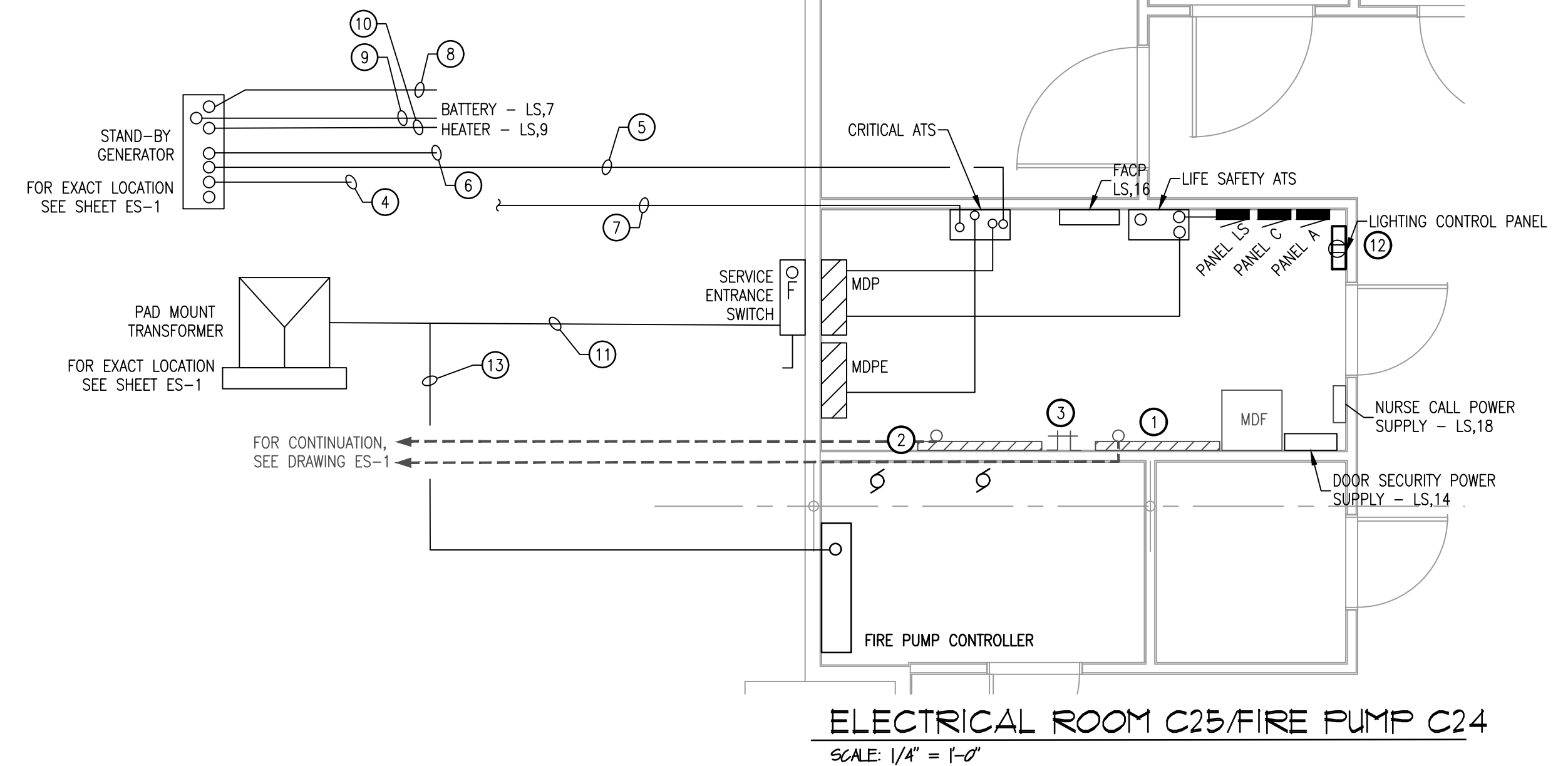


KEY PLAN

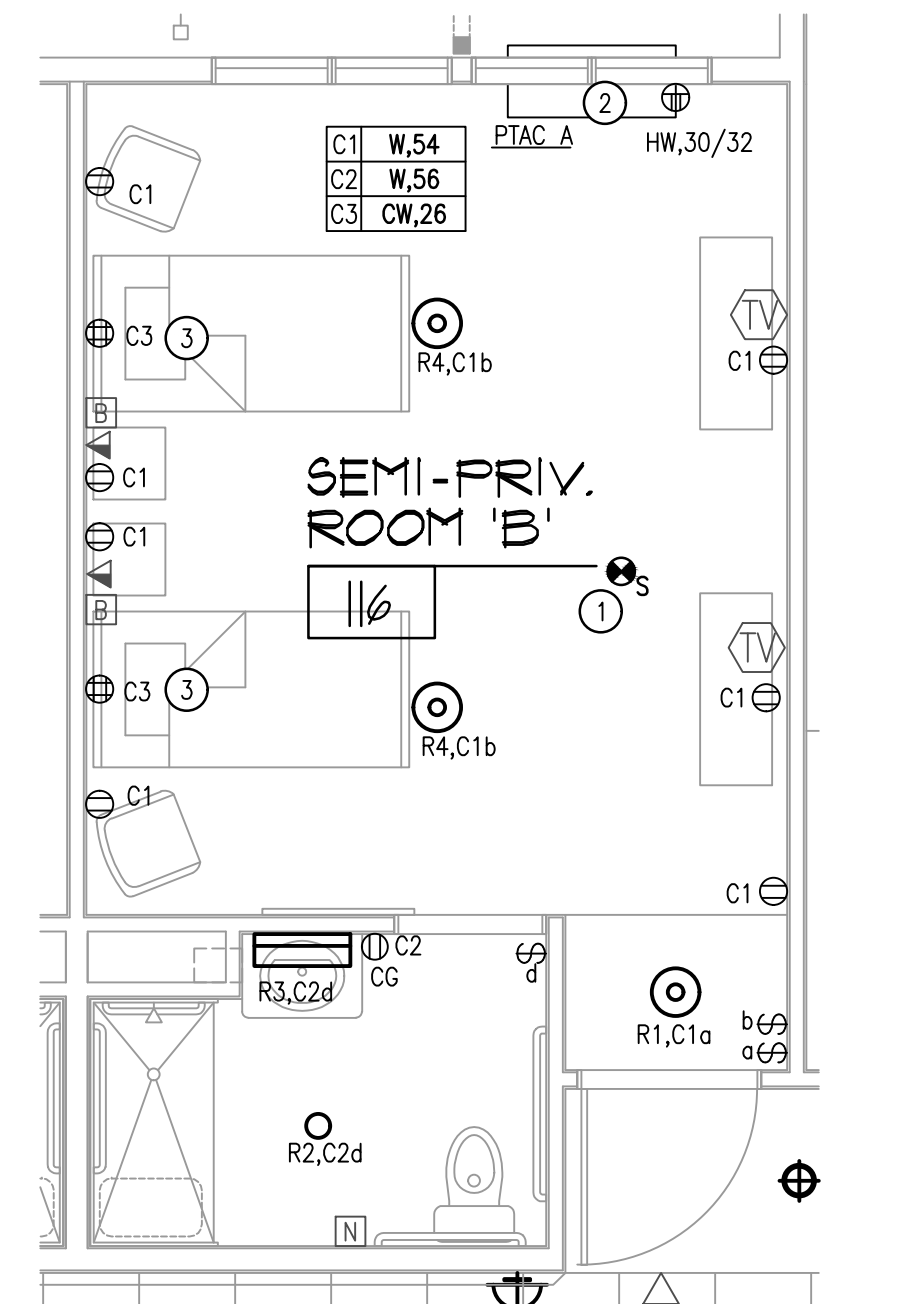
SCALE: 1/16" = 1'-0"



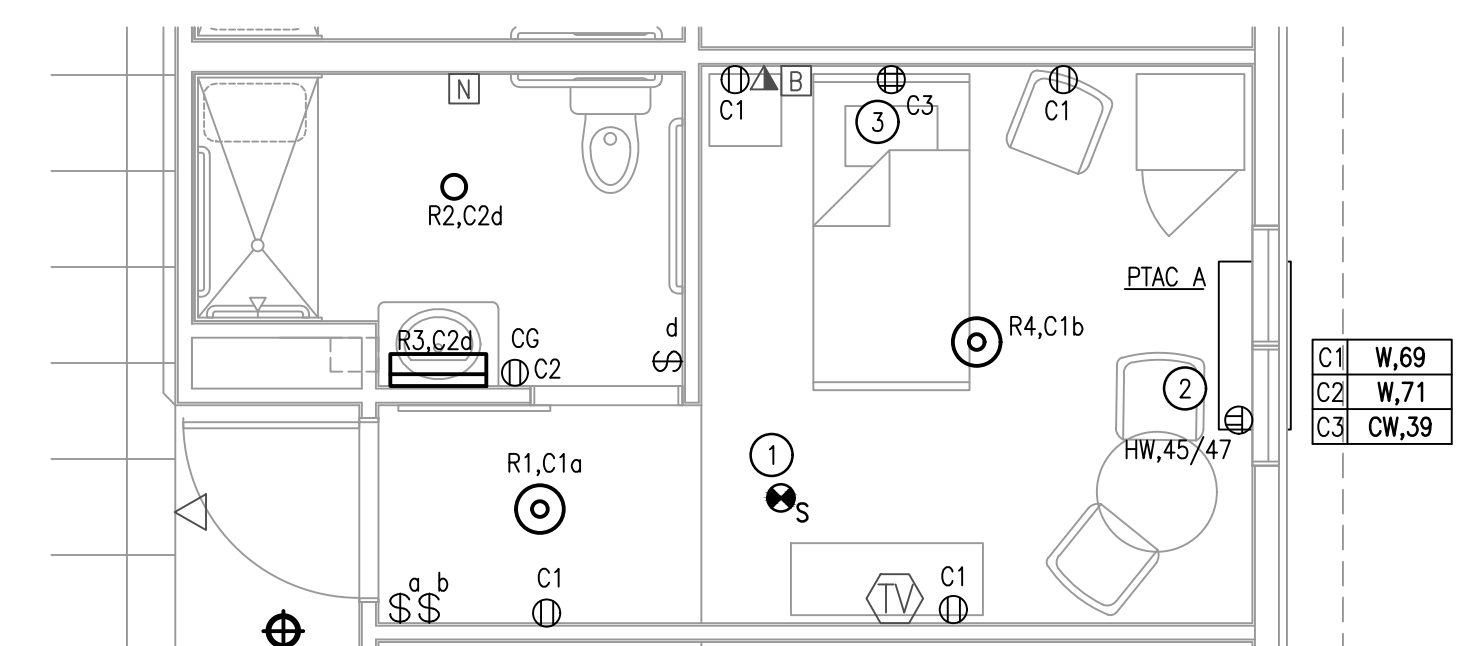
NORTH



- ① PROVIDE 4'x8'x3/4" FRP PLYWOOD BACKBOARD FOR TELEPHONE/DATA EQUIPMENT.
- ② PROVIDE 4'x8'x3/4" FRP PLYWOOD BACKBOARD FOR TELEVISION EQUIPMENT.
- ③ PROVIDE TELECOMMUNICATION MAIN GROUNDING BAR, 24"W x 4"H x 1/4"D COPPER GROUND BUSS. BOND TO SERVICE WITH #4 COPPER.
- ④ PROVIDE 3/4" PVC SCH.40 CONDUIT FOR REMOTE ANNUNCIATOR CABLE.
- ⑤ PROVIDE 2#10AWG, 1#10AWG(G), 3/4" PVC SCH.40 CONDUIT FOR GENERATOR ENGINE START CONTACTS TO EACH A.T.S.
- ⑥ PROVIDE 3/4" PVC SCH.40 CONDUIT WITH PULLWIRE (SPARE).
- ⑦ PROVIDE 4#350KCMIL, 1#1AWG(G) IN EACH OF (2)-3" CONDUITS (2/C PER PHASE)
- ⑧ PROVIDE 4#4AWG, 1#6AWG(G), 1-1/2" PVC SCH.40 CONDUIT. LIFE SAFETY SYSTEM.
- ⑨ PROVIDE 2#12AWG, 1#12AWG(G), 3/4" PVC SCH.40 CONDUIT FOR BATTERY CHARGER CIRCUIT LS,7
- ⑩ PROVIDE 2#12AWG, 1#12AWG(G), 3/4" PVC SCH.40 CONDUIT FOR BLOCK HEATER CIRCUIT LS,9
- ⑪ PROVIDE 5 SETS OF 4#500KCMIL IN EACH OF 4" PVC SCH.40 CONDUITS (4/C PER PHASE) AND 2-2" PVC SCH.40 CONDUITS SPARE. INSTALL 24" BELOW FINISHED GRADE TO PAD MOUNT TRANSFORMER.
- ⑫ LIGHTING CONTROL PANEL (LCP). PROVIDE 2#12AWG, 1#12AWG(G), 1/2"C FROM PANEL CIRCUIT C,24/26 AND PHOTOCELL AT ROOF AND TO CONNECT LCP MODULE.
- ⑬ PROVIDE 4 #3/0AWG, 1#4AWG(G), 2"C. TO PAD MOUNT TRANSFORMER.



SEMI-PRIVATE ROOM TYPE B (i.e. 116)
SCALE: 1/4" = 1'-0"



PRIVATE ROOM TYPE A (i.e. N123)
SCALE: 1/4" = 1'-0"


- SEMI-PRIVATE ROOM (TYPE B) AND PRIVATE ROOM (TYPE A) CODED NOTES:
- ① PATIENT ROOM SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM, THE NURSE CALL SYSTEM, AND CORRIDOR NURSE CALL SYSTEM CALL LIGHT UNIT, TYPICAL FOR ALL PATIENT ROOMS.
 - ② REFER TO HVAC SCHEDULE, DRAWING NUMBER E-5.1 FOR ELECTRICAL REQUIREMENTS.
 - ③ RECEPTACLE CONNECTS TO CRITICAL POWER PANEL - REFER TO POWER PLANS FOR CIRCUITS IN RESIDENCE ROOMS.

TYPICAL ROOMS & ELECTRIC ROOM
SCALE: 1/8" = 1'-0"

SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
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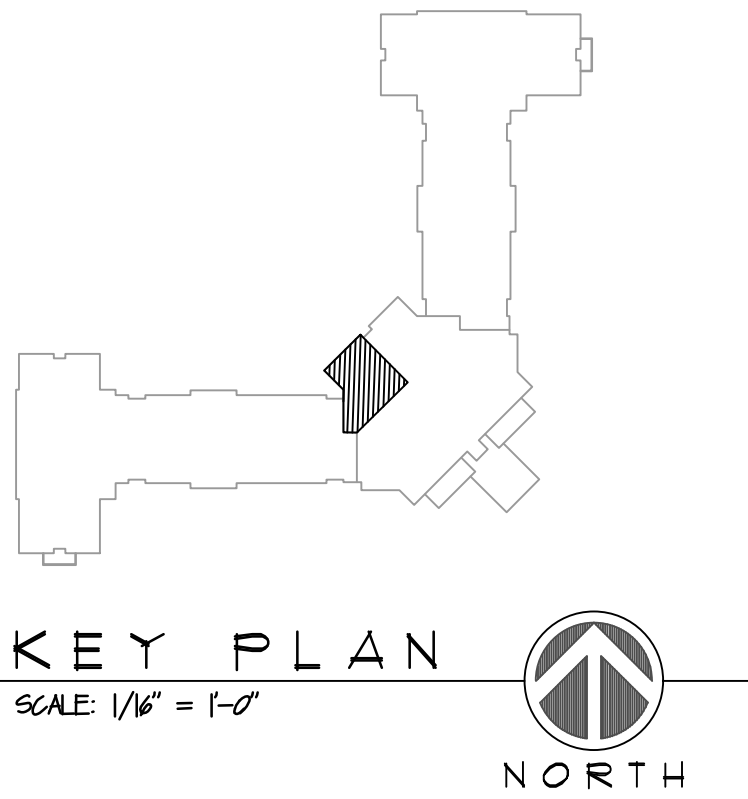
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2024-03-11 - 1/8" = 1'-0"

2024-03-11 - 1/8" = 1'-0"



KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
ITEM	DESCRIPTION	VOLTAGE AND PHASE	KW	HP	CONNECTION	HEIGHT	CONDUIT AND WIRE SIZE	PANEL	CIRCUIT NO.	CIRCUIT BREAKER OR SWITCH/FUSE SIZE	STARTER SIZE	NOTES
1	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
5.1	-	-	-	-	-	-	-	-	-	-	-	-
5.2	-	-	-	-	-	-	-	-	-	-	-	-
5.3	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-
7A	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-
9A	-	-	-	-	-	-	-	-	-	-	-	-
10.2	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
20.1	-	-	-	-	-	-	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	-	-	-	-
30.1	-	-	-	-	-	-	-	-	-	-	-	-
32.1	-	-	-	-	-	-	-	-	-	-	-	-
32.2	-	-	-	-	-	-	-	-	-	-	-	-
32.3	-	-	-	-	-	-	-	-	-	-	-	-
32.4	-	-	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-	-	-	-	-

MECH. EQUIPT. CONNECTION SCHEDULE NOTES:

1. THE E.C. SHALL VERIFY ALL NEW EQUIPMENT SPECIFICATIONS (VOLTAGE, OVERCURRENT PROTECTION, ETC.) WITH M.C. PRIOR TO PLACING PURCHASE ORDER FOR DISTRIBUTION EQUIPMENT AND ROUGH-IN. THE E.C. SHALL ALSO BE RESPONSIBLE FOR PROVIDING ALL CONNECTIONS, PROPER NEMA RECEPTACLE CONFIGURATIONS, DEVICES, SAFETY SWITCHES, ETC. LISTED ON THIS SCHEDULE, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

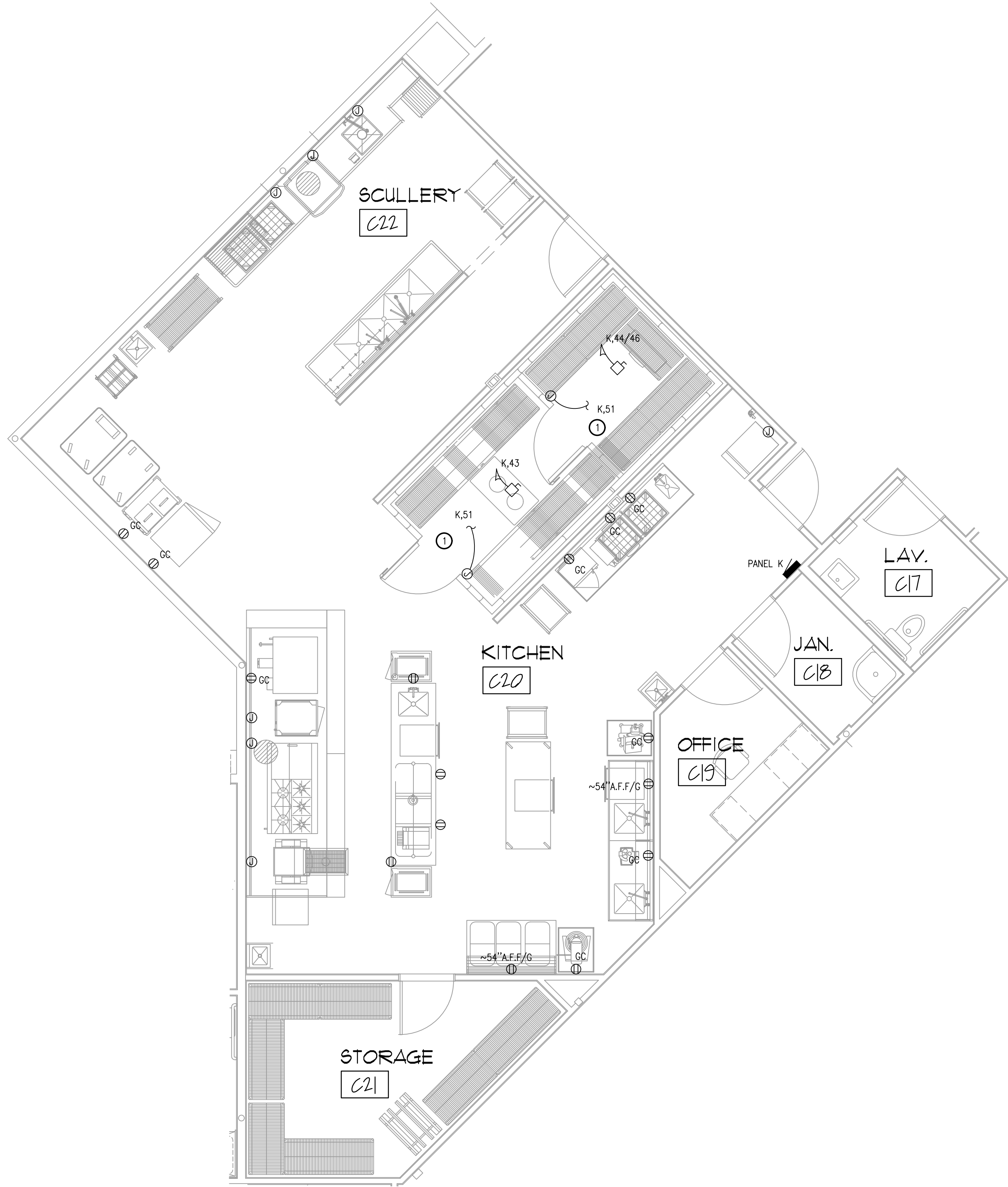
ENLARGED KITCHEN POWER PLAN GENERAL NOTES:

- ALL ROUGH-INS ARE INTENDED TO COME OUT OF THE FLOOR OR WALLS AND ARE SHOWN APPROXIMATELY WHERE THEY OCCUR IN THE FIXTURE.
- ALL CONDUIT TO BE PLACED IN THE WALLS RATHER THEN THROUGH THE FLOOR WHENEVER POSSIBLE.
- ALL MEASUREMENTS TAKEN FROM FINISHED WALLS OR CENTERLINE OF COLUMNS.
- ALL DIMENSIONS TAKEN FROM FINISHED FLOOR LINE MAY INCREASE TWO(2) INCHES OR DECREASE ONE(1) INCH WITH LEG ADJUSTMENT.
- ALL MECHANICAL STUBBING IN CENTER OF FLOOR TO BE SIX(6) INCHES OR LESS TO CLEAR EQUIPMENT BASES, THEN BRANCH TO FINAL CONNECTION.
- E.C. TO PROVIDE ELECTRICAL SERVICE FOR AUTOMATIC FIRE EXTINGUISHER SYSTEM FROM ELECTRICAL PANELS TO VENTILATING HOOD AND TO CHEMICAL TANK LOCATION.

- ALL ELECTRICALLY FIRED AND ELECTRICALLY POWERED COOKING EQUIPMENT INSTALLED BELOW EXHAUST HOOD REQUIRES A SHUNT TRIP BREAKER AND WIRING THROUGH MICROSWITCHES IN FIRE SYSTEM SUPPLIED BY E.C.
- THE ROUGH-INS SHOWN ARE FOR EQUIPMENT SUPPLIED BY FOODCRAFT EQUIPMENT CO. VERIFY WITH OWNER FOR ROUGH-IN NOT SUPPLIED BY FOODCRAFT EQUIPMENT CO.
- SIZING OF ELECTRICAL PANELS TO BE DETERMINED BY E.C. OR ENGINEER
- THE ROUGH-INS SHOWN ON THIS DRAWING ARE REQUIRED FOR OPERATION OF EQUIPMENT SUPPLIED BY FOODCRAFT EQUIPMENT CO., ACCORDING TO MANUFACTURER SPECIFICATIONS. THESE ROUGH-INS ARE MANUFACTURER'S REQUIREMENTS FOR OPERATION OF THE EQUIPMENT ONLY. FOODCRAFT EQUIPMENT CO. WILL NOT BE LIABLE FOR ANY DEVIATION FROM THESE ROUGH-INS. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL TRADES TO ENSURE THAT SUPPLY LINES, WASTES, CARRY-OFF, WIRE SIZES, ETC., MEET ALL LOCAL CODES.
- WHERE LOCAL CODES REQUIRE DISCONNECTS, E.C. TO LOCATE AND PROVIDE REQUIRED CLEARANCES.

ENLARGED KITCHEN POWER PLAN

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



ENLARGED KITCHEN POWER PLAN CODED NOTES:

- COOLER AND FREEZER: 120V/1Ø CIRCUIT K.51 FOR LIGHTS AND DOOR HEATERS INCLUDING ACCESS DOOR. E.C. TO INSTALL AND WIRE LIGHTS. COORDINATE BRANCH CIRCUIT BETWEEN EVAPORATOR, CONDENSER, FAN, DEFROST HEATER WITH MANUFACTURER'S DRAWINGS. SEE E2.4 FOR CONDENSING UNIT DETAILS. CAULK AND SEAL ALL CONDUIT PENETRATIONS AS REQUIRE. RECEWAYS ENTERING WALK-IN COOLERS/FREEZERS SHALL BE FILLER WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE REFRIGERATION. LIGHT FIXTURES/LAMPS PROVIDED BY FOOD SERVICE EQUIPMENT SUPPLIER, INSTALLED AND CONNECTED BY E.C..

NEW 90 BED SKILLED NURSING FACILITY
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER
STATE RTE 616
MONTA, FRANKLIN COUNTY, VIRGINIA



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DSCA PROJECT NO.
23046

E4.2