			HVAC EQUIT	PMENT	ELEC.	TRI		_ CONN	ECTION SCHEDULE				
(ITEM)	MARK	DESCRIPTION	SERVICE	WING	VOLTAGE AND PHASE	МСА	KW	CONNECTION	CONDUIT AND WIRE SIZE	PANEL	CIRCUIT Nº.	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	_	1	CW	_	35A/3P	3
20	CU-2	SPLIT SYSTEM CONDENSING UNIT	SPA,CORRIDORS,NURSE,CHARTS	NORTH	208V-3ø	18	2.2	_	1	CW	_	30A/3P	2
21	CU-3	SPLIT SYSTEM CONDENSING UNIT	DINING LOUNGE	EAST	208V-3ø	21	2.5	_	1	_	_	35A/3P	3
22	CU-4	SPLIT SYSTEM CONDENSING UNIT	SPA,CORRIDORS,NURSE,CHARTS	EAST	208V-3ø	18	2.2	_	1	_	_	30A/3P	2
9	MAU-1	OUTDOOR MAKE-UP AIR UNIT	KITCHEN HOOD #1	CENTRAL	208V-3ø	-	_	INTEGRAL D.S.	1	_	_	_	_
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	1	_	_	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.	1	_	_	20A/1P	_
14	EH-1	ELECTRIC HEATER	CORRIDOR NO3	NORTH	208V-1ø	_	3	INTEGRAL D.S.		_	_	20A/1P	_
15	EH-2	ELECTRIC HEATER	CORRIDOR NO2	NORTH	208V-1ø	_	3	INTEGRAL D.S.		_	_	20A/1P	_
16	EH-3	ELECTRIC HEATER	CORRIDOR NO3	NORTH	208V-1ø	_	3	INTEGRAL D.S.		_	_	20A/1P	_
17	EH-4	ELECTRIC HEATER	CORRIDOR NO2	NORTH	208V-1ø	_	3	INTEGRAL D.S.		_	_	20A/1P	_
18	EH-5	ELECTRIC HEATER	CORRIDOR CO1	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 RECÉPTACLE CONFIGURATIONS, DEVICES, SAFETY SWITCHES, ETC. LISTED ON THIS SCHEDULE, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

HVAC EQUIPMENT ELECTRICAL CONNECTION SCHEDULE CODED NOTES:

- 1. INTEGRAL DISCONNECT SWITCH
- 2. PROVIDE 30A/3P/NF NEMA 3R SAFETY SWITCH
- 3. PROVIDE 60A/3P/NF NEMA 3R SAFETY SWITCH
- 4. 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
- 5. XXX
- 6.7. CONTROLLED BY TIME CLOCK
- 8. CONTROLLED BY OCCUPANCY SENSER OR LIGHT SWITCH CONTINUOUS OPERATION
- 9. PROVIDE MANUAL MOTOR STARTER (S) FOR THIS UNIT
- 10. SEE SINGLE LINE DIAGRAM ON DRAWING NUMBER E-8.2
- 11. 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	С	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	С	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
- 2. PROVIDE 30A/3P/NF NEMA 3R SAFETY SWITCH
- 3. PROVIDE 60A/3P/NF NEMA 3R SAFETY SWITCH
- 4. 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
- 5. XXX
- 7. CONTROLLED BY TIME CLOCK
- 8. CONTROLLED BY OCCUPANCY SENSER OR LIGHT SWITCH CONTINUOUS OPERATION
- 9. PROVIDE MANUAL MOTOR STARTER (S) FOR THIS UNIT
- 10. SEE SINGLE LINE DIAGRAM ON DRAWING NUMBER E-8.2
- 11. PROVIDE FAN WHIPS LONG ENOUGH TO PERMIT FAN MOTOR TO BE TURNED UP FOR ROOF MOUNTED EXHAUST FANS EF-1 THROUGH EF-8.

D /O.E.	FIXI	URE	DECODITION	
TYPE	LAMP	WATTS	DESCRIPTION	CATALOG
A	LED -K 5,300L	49W	2'X4' LAY-IN GRID CEILING MOUNT, TROFFER, 120V, FIXED OUTPUT DRIVER.	COLUMBIA LJT24-35HL FSA12.125-
В	LED 3500K 5,300L	47W	2'X4' LAY-IN GRID CEILING MOUNT, 120V, 0-10V DIMMING.	COLUMBIA LCAT24– 35HLG–ED
С	LED 3500K 3,500L	35W	2'X2' LAY-IN GRID CEILING MOUNT, 120V, 0-10V DIMMING.	COLUMBIA LCAT22- 35HLG-ED
D	LED 3500K 4,908L	43W	WRAPAROUND, CEILING SURFACE MOUNTED, 120V, FIXED OUTPUT DRIVER.	COLUMBIA LAW4-35ML-
E	LED 3500K 3,633L	43W	SLIM WALL MOUNTED, WHITE DIFFUSER, (2)F32/T8/SP35 LAMPS, 120V, ELECTRONIC BALLAST.	COLUMBIA W4-232-F -LCO-LSW-
F •	LED 35K 1,500L	26W	LED 6" RECESSED OPEN DOWNLIGHT, 120V, 0-10V DIMMING	PRESCOLIT LF6LEDG4 -6LFLEDG6 35KWHWT
G ⊕	LED 35K 1,100L	15W	LED 4" RECESSED OPEN DOWNLIGHT, 120V, 0-10V DIMMING, WHITE FINISH.	PRESCOLIT LF4LEDG4 -4LFLED70 35KWHWT-B6
Н	LED 35K 2,000L	27W	LED 4" RECESSED OPEN DOWNLIGHT, 120V, 0-10V DIMMING, DAMP LOCATION RATED, BLACK FINISH.	PRESCOLIT LF4LEDG4 -4LFLED70 35KBLIP68-
К •	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.	PROGRES: P7175-2
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.	PROGRES: P3484-2
L2	LED K -,L	MAX	TBD, 120V, DIMMABLE.	TBD
М	LED 3,000K 513LM/FT	5.8W/FT	LINEAR LED STRIP LIGHTING, 24V POWER SUPPLY NEEDED EVERY 35FT. 80FT NEEDED.	LED LIGHTING TUHL1200- -24V-80- @/52 FEE
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.	PRESCOLIT MD8LED6L35 -8MD12L WFL45-CL-
Р Ф	LED 3,000K 2,400L	34W	SPAULDING LIGHTING, LED TRAPEZOID WALL PACK, TYPE III DISTRIBUTION, BRONZE FINISH, PROGRAMMABLE MOTION CONTROL, 120V.	HUBBELL TRP-30L3K- -3-U-DB-PC
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.	PROGRES P3924–20E
R2	LED 3000LK -,L	17W	5.5" LED FLUSH MOUNT, WET LOCATION RATED, 120V, DIMMABLE.	PROGRES: P8240-2: /30K9-A0
R3 -	LED K -,L	27W	OASIS TWO-LIGHT BATH, (2)F17/T8/SP35/ECO, 120V, HPF ELECTRONIC, INSTALLED ABOVE MIRROR.	PROGRES: P2114-60
R4	LED K -,L	29W	TWO-LIGHT CLOSE-TO-CEILING, SATIN WHITE GLASS, ANTIQUE BRONZE, 120V, DIMMABLE, (2) CREE LA206C1 2700K.	PROGRES P3480-2

LIGHTING FIXTURE SCHEDULE NOTES:

1. 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.

PRELIMINARY NOT FOR CONSTRUCTION

LIGHTING FIXTURE, MECHANICAL EQUIPMENT AND EXHAUST FAN CONNECITON SCHEDULE scale: NO scale

DSCA PROJECT NO. 23.Ø46

401 FRONT STREET BEREA, OHIO 44017

PHONE: 440.835.3957 mail@dscarchitects.com

PRICING SET:



ELECTRICAL SPECIFICATIONS

SECTION 16010

PART 1 – GENERAL

- 1.01 GENERAL
- A. The provisions of the Instructions to Bidders, General Conditions, Supplementary litions, 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. "Contractor" as used within the Electrical Specifications shall refer to the
- 2. "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
- 3. "Contract Documents" shall be understood to encompass drawings and specifications for architectural, structural, civil, mechanical, electrical and
- 4. "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
- 5. "Furnish" shall be interpreted to mean the Contractor shall supply and deliver to the job site specified material, equipment, and supplies.
- 6. "Install" shall be interpreted to mean assembling, placing, erecting, wiring
- E. 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 o where such information is indicated (Architectural, 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.
- F. 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.
- G. 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.

1.02 WORK INCLUDES

- A. 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.
- B. It is the purpose of the Electrical Drawings to indicate the approximate location of all equipment, outlets, etc. Ascertain exact locations and arrange work accordingly. The right is reserved to effect reasonable changes in the location of outlets up to the time of roughing—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
- C. Work shall include, but not be limited to, the following general systems and
 - Feeders and panel boards Disconnect switches
 - Lighting and controls
- Extension/modification of the existing power distribution system
- D. 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
- E. 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
- F. Provisions of the latest revisions to the Federal Occupational Safety and Health Act (OSHA) shall be satisfied
- G. 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.
- H. 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.
- I. The Electrical Contractor shall provide temporary electrical services adequate in size and characteristics, for use by all trades on site during project

1.03 TESTS & DEMONSTRATION OF SYSTEMS

to perform these tests.

- A. After installation but prior to energization, perform tests for grounds, short circuits and proper function. Faults in the installation shall be corrected B. Insulation resistance tests shall be made on the electrical system with not less
- C. The Contractor shall torque down all accessible bolts and perform rotation tests for all distribution and utilization equipment

than 1000V D.C. for 30 seconds using an approved megohmeter (Biddle

Megger or equal). Also, complete resistance/continuity tests on the grounding

- D. At each test site, the Contractor shall provide any test control power necessary
- E. Conduct such tests and adjustments of the equipment as required by the Architect as necessary to verify performance requirements. Submit data to
- F. Before final payment, demonstrate to the Owner's satisfaction the proper operation of each of the systems comprising this Contract.
- G. Instruct the Owner's maintenance personnel in the operation and maintenance of all electrical equipment and controls.

A. After all tests have been completed, clean all equipment leaving everything in

1.04 CLEANING AND FINISHING

- working order at the completion of this work.
- B. All debris created by the execution of this work shall be removed.
- 1.05 CUTTING, PATCHING AND PAINTING

- 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 skilled in 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.).
- 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 specialties 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 t avoid conflicts and to obtain a neat and workmanlike installation that will afford maximum accessibility for operation, maintenance and headroom.
- 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.
- 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
- F. 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
- 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 failure.
- 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
- 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 I 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
- R. 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
- 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 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
 - 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 this paragraph of the specification has been complied with.
- R. 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

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.
- 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

- 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 busways 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
- b. Provide fire stopping where a penetration occurs through a structural floor or roof and a space would otherwise remain open between the surface of the penetration and the edge of the
- adjoining structural floor or roof. 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

by a horizontal distance of 24 inches.

Resistance Directory as published by U.L.

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

3.01 EQUIPMENT CONNECTIONS 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 cords and caps where required and

fusetron 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 to adjacent spaces.
- 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

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 therefor 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
- 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

- 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

- 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
- Where required, resupport 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/utilized shall be provided with new typewritten directories to reflect any changes made through this demolition.
- 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
- 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.
- All cutting, patching, finishing, etc., for removal and relocating electrical equipment shall be included as part of the Flectrical 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.
- 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. Al 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

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 arounding

existing wiring shall remain, along with the related conduit system, unless

- continuity and shall test the existing branch circuit wiring as though new, in accordance with the testing procedures outlined elsewhere n these 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
- J. Cap existing empty conduits and plug open knockouts in existing electrical
- 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 painted over shall be suitably cleaned or replaced with a new item by the Contractor.

END OF SECTION

SECTION 16050 - BASIC MATERIALS AND METHODS

1.01 GENERAL

A. Work Includes

PART 1 - GENERAL

Wire and Cable Wiring Devices Supporting Devices

B. Related Work Specified Elsewhere

Section 16010 - General Electrical Provisions Section 16060 - Grounding and Bonding

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

- 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
- 3. All conduits that pass through the roof shall be in pipe portals. 4. All conduits that cross expansion joints shall have expansion seismic
- 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 6" of concrete under drives or roadways. The transition to rigid conduit must be made before the conduit enters the building.

- Conduits shall be continuous and be secured to all boxes in a manner that each system shall be electrically continuous from point of service to all outlets. Terminals of all conduits shall be provided with locknuts and bushings. Plug ends of each conduit with an approved cap or disc to prevent the entrance of foreign materials during construction.
- 2. Conduits run in floor slab or concrete work shall have a minimum of one (1") inch of concrete cover and clean threads.
- 3. All conduit terminating in sheet steel enclosures shall have double locknuts and a bushing. Locknuts shall be a type which will "bite" into the metal of the box. All bushings shall be of the insulating type.

4. Conduit shall be run concealed in finished areas. The routing of all

with, and shall be approved by the architect prior to installation. Where conduits passing through openings are exposed in finished rooms, finishes of filling materials shall match and be flush with adjoining floor,

surface mounted/exposed conduit in finished areas shall be coordinated

- ceiling and wall finishes Conduits shall not be run on the exterior of the building or on the roof unless specifically indicated on the drawings. The routing of such
- conduits shall be approved by the Architect. 7. Homeruns to panels shall be 3/4" minimum.

provided under his Contract.

- 8. Conduit in ground floor shall be run under the slab, but may not be run
- 9. Exterior underground conduits shall be 30" below grade, minimum. 10. Conduit passing through exterior walls for entry into building and floors below grade shall be made watertight with caulking compound and pipe sleeves with wall collar extending 8" all around the conduit. Collar shall

be 1/8" thick steel welded to sleeve. Coordinate material requirements

- with the Contractor. Underground joints shall be sealed. 11. Where conduits pass through masonry or concrete walls, foundations or floors, the Electrical Contractor shall set such sleeves as are necessary for passage of the conduits. Sleeves shall be of sufficient size to provide air space around the conduit passing through for fireproofing. The Electrical Contractor shall be responsible for the exact location of sleeves
- 12. Conduit supporting systems shall be attached to the deck, slab, or structural framing only and not to any other appurtenances at the ceiling such as mechanical ducts, pipes and suspended ceiling hanger wires or framina members.

13. Conduits or other raceway systems that penetrate fire or smoke rated

walls, ceilings, decks, partitions, etc. shall be constructed so as to

maintain the integrity of the fire or smoke rated areas. 14. A separate ground must be run in all P.V.C. conduit. Conduit size shall be increased to accept ground when required. Vertical transitions shall be made with rigid steel ells.

2.02 WIRE AND CABLE

- A. Materials Wire and cable for lighting feeders shall be 600 volt type THHN/THWN or XHHW copper. Aluminum wiring is an acceptable alternate for feeders 100
- amperes or larger. 2. Wire and cable for power and lighting branch circuits shall be TW/UF copper for #8 and smaller and THHW or XHHW copper for #6 and larger. Wire sizes shall be based on the 60°C ampacities for wire sizes #14

through #1AWG, and 75°C ampacities for wire sizes #1/0 AWG and larger.

3. Minimum wire size for power and lighting circuits shall be #12. Wire sizes #12 and smaller shall be solid. Wire sizes #10 and larger shall be

4. Where size is not indicated, Conductor size #12 minimum shall be used

- for circuits less than 120 feet and size #10 minimum shall be used for circuits greater than 120 feet 5. Joints in #10 and smaller wire shall be made with Minnesota Mining and Manufacturing Co. insulated "Scotch Locks", Ideal Co. "Wing_Nut", T & B Co. "Piggy" connectors, or with mechanically crimped sleeves as manufactured by T & B Co., or Ideal Co. Connector sleeves shall be insulated with pressure sensitive electrical tape equal to Minnesota Mining
- and Manufacturing Co. Scotch No. 33 "plus" or Raychem Corp. heat shrinkable tape. 6. Joints in #8 and larger shall be made with pressure type mechanical
- connectors and insulated with electrical tape to 150% of the insulating value of the conductor insulation.
- 7. Color code wire and cable for circuits as called for in the National 8. All mechanical wire & cable terminations shall be torque-tightened with

torque wrench or torque screwdriver to manufacturer's recommended torque values.

2.03 WIRING DEVICES

- 1. Local light switches shall be back and side wired, 20 ampere, 120/277 volts, AC Specification Grade. The following manufacturers indicated are acceptable: Hubbell, Legrand, Leviton, Bryant.
- 2. Convenience outlets for 120 volt general use shall be duplex 20 ampere, 125 volt, 3 wire, grounding type. The top shall be of high impact thermoplastic such as nylon. The strap shall be heavy duty steel that wraps around the device. Ground contacts shall be brass and riveted to the strap. Automatic ground clip shall be provided. Manufacturers and their catalog numbers listed are acceptable.

Legrand 5362 Leviton 5362

- 3. All switch and convenience outlet plates shall be smooth finish. thermoplastic material such as nylon to suit outlets provided. To insure uniform color, plates and devices shall be of one manufacturer. In
- unfinished areas, use cadmium plated round corner steel cover plates. 4. All 15- and 20-ampere, 120-volt nonlocking type receptacles in the areas specified in NEC 406.12(1) through (7) shall be listed tamper

- 5. Ground fault circuit interrupter (G.F.C.I.) receptacles, where required by local code, shall be Hubbell #AFGF15TR.
- Weatherproof receptacles shall be Hubbell #HBL5262WR duplex outlet with Hubbell #HBL5221 polycarbonate gray plate, box mount.

- Provide receptacles and switches as indicated. Colors of device and plates shall be selected by the Architect. Verify before installation.
- Adjacent devices shall be mounted in ganged boxes.
- 3. Junction boxes shall not be installed above gypboard ceilings, due to
- 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

installed in a readily accessible location and shall have proper working space

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

as defined in NEC Article 100 and 110. 2.05 SUPPORTING DEVICES

2.07 EXCAVATION, CONCRETE AND BACKFILL

otherwise indicated.

B. Exterior concrete shall be thourosealed

SECTION 16400 - SERVICE AND DISTRIBUTION

2.04 DISCONNECT SWITCHES

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

B. Supporting devices shall be galvanized or aluminum material.

2.06 FQUIPMENT 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.

- A. 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.
- 2.08 PADS, FOUNDATIONS AND ENCLOSURES A. Provide pads, foundations, and enclosures required for electrical equipment. All floor mounted or exterior equipment is to be on 4" concrete pads unless
- C. Pads for Utility Company transformers: follow Utility Company requirements.

PART 1 - GENERAL

END OF SECTION

1.01 GENERAL

A. Work Includes: Branch Circuit Panelboards

Transformers

B. Related Work Specified Elsewhere Section 16010 - General Electrical Provisions

1.02 GROUNDING Ground all conduits, cabinets, motors, panels and other exposed non-current carrying metal parts of electrical equipment in accordance with all provisions

Section 16400 - Power Distribution Equipment

Section 16050 - Basic Electrical Materials and Methods

B. Ground all conduits by means of grounding bushings on terminations at panelboards with an installed #12 conductor to grounding bus C. The preferred method of grounding to earth is by an underground water piping

system, if available, supplemented by the use of driven rods. Ground rod

of the National Electric Code and local codes.

shall be copper-weld not less than 3/4" in diameter and ten (10) feet D. Grounding of the electrical system shall be by means of an insulated grounding conductor installed with circuit conductors in all conduits. Grounding conductors shall be sized in accordance with N.E.C. 250.95 and shall run

from grounding bus of serving panel to ground bus of served panel,

- grounding screw of receptacles, lighting fixture housings, light switch outlet boxes or metal enclosures of served equipment. E. Install bonding jumpers across all buildings, expansion joints, and across conduit
- Conductors for grounding system shall be soft or medium hard drawn, stranded, bare copper except where otherwise noted

4. All conductors #8AWG and smaller shall be insulated

PART 2 - PRODUCTS AND EXECUTION

2.01 CIRCUIT BREAKER PANELBOARDS Panelboards shall be of the dead front safety type. Bus bars shall have anti-turn solderless lug connections for attaching feeders. Where two or

shall be Square D, Siemens, General Electric, or equivalent.

three-pole breakers are required, they shall be common trip. Panelboards

equipment if area for attachment is too small. Identification with a

- Name Plates a. Provide nameplates on all equipment of the type listed in the following schedule: Panel boards, Safety Switches
- b. Lettering shall include name of equipment, horsepower, voltage rating and service designation. c. Name plates shall be laminated phenolic with a black surface and white core. Nameplates may be attached to wall adjacent to
- d. Nameplates on panel boards, distribution panels, etc., in unfinished areas should be on exterior trim near top. All branch circuit panelboards shall be circuit breaker type with provisions

Dymo-type instrument is not permissible.

for bolt-on type circuit breakers. 4. Circuit breakers shall be bolt on type, 10,000 ampere symmetrical short circuit capacity minimum unless otherwise shown on the drawings.

1. Panels shall be mounted so that the top is at 6'-0" above floor.

2. A glazed directory frame shall be provided inside the door and shall be of sufficient size to give description of each circuit. Typed directory cards shall be provided listing each circuit served.

3. Provide new directory cards in existing panels modified due to the 2.02 TRANSFORMERS

A. Execution

- A. Transformers shall be dry type, 115 deg. centigrade rise, with four 2-1/2% full capacity taps (two above — two below normal voltage) for 30 KVA and below. 150 deg. centigrade rise, with six 2-1/1% full capacity taps (two above — four below normal voltage) above 30 KVA. Transformer sound levels shall not exceed NEMA Standards. Provide all mounting platforms for wall or truss mounted transformers as required. Primary and secondary connection shall be made with flexible conduit. Transformers shall be as manufactured by Square D, General Electric, Siemens, Acme, or Hevi-Duty
 - All transformers indicated to be supported from the structure shall be supported by Unistrut frame.

PART 3 - EXECUTION

3.01 GROUNDING

A. All connections of ground conductors to bus bars, structural members, pipes, or fences and splices of ground conductors shall be made by exothermic welds except where otherwise noted. All connections to bar lugs shall be exothermic weld or compression type. Bolted type connection of ground

conductors may only be made where terminal lugs or blocks have been

- furnished and installed in equipment by the manufacturer. B. The resistance to ground for the entire grounding system shall not exceed 25
- ohms under normal dry conditions C. Tests of grounding resistance shall not be made within 24 hours after a rainfall If after testing the system, it is found that the resistance to absolute earth exceeds 15 ohms, the Contractor shall install the necessary number of ground rods to reduce the resistance to less than 15 ohms. These tests shall be conducted in the presence of the local Electrical Inspector. The test

results shall be submitted to the Owner/Engineer.

SECTION 16500 - LIGHTING

PART 1 - GENERAL

1.01 GENERAL A. Work Includes

Interior Lighting Exterior Lighting PART 2 - PRODUCTS AND EXECUTION

2.01 EXECUTION A. Light fixtures (luminaire) shall be as specified on the lighting fixture schedule as indicated on the drawings. Where fixture types are indicated as a manufacturer's series, the contractor shall provide the correct trim, mounting

hardware, lengths, etc., to complete the installation as indicated on the

B. All fixtures shall be securely supported with approved hangers. Fixtures shall be supported from structural ceiling or structural supports, not suspended ceiling supports, independent of ceiling material. Fixtures shall be secured per IBC, state and local seismic requirements. Surface mounted fixtures

must have additional ceiling support as acceptable by the Architect. END OF SECTION

SECTION 16700 - COMMUNICATIONS PART 1 - GENERAL

1.01 GENERAL A. Work includes telephone/data conduit system

electrical/architectural drawings.

PART 2 - PRODUCTS AND EXECUTION 2.01 DESCRIPTION A. The Contractor shall provide a complete system of telephone/data cabinets, outlet boxes, conduit and miscellaneous fittings and materials to provide a

under a separate gareement with the Owner. All work shall be provided in accordance with the requirements of the local telecommunications company and as indicated on the drawings.

B. Execution 1. All conduits required for telephone/data outlets as shown on the drawings shall be provided complete with pull wires. Conduit shall be 3/4" minimum and the complete system shall conform with the telephone

company requirements. Provide empty conduits with appropriately sized

pull strings from each outlet to conduit stub above ceiling space.

complete data raceway system. Data equipment, terminals, cable and the

associated labor shall be furnished and installed by low voltage contractor

All low voltage and system cabling located above ceilings shall be properly rated for the application. Without exception, all cabling shall be hung from bridal type rings or placed in cable tray by the E.C. in exposed ceiling areas, All cabling shall be run in conduit to the nearest

3. The E.C. shall coordinate the exact location of all device boxes for

security system, conduit for low voltage cable and 120V power for card readers/sensors with the Owner's security system vendor prior to

4. Coordinate communications cabling, routing, mounting boxes, and terminations with the Owner, Architect and Owner's communications consultant prior to rough-in.

END OF SECTION

401 FRONT STREET BEREA, OHIO 44017 PHONE: 440.835.3957

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23.046

NOT FOR CONSTRUCTION

DSCA PROJECT NO.

ELECTRICAL SYMBOL LEGEND

	RICAL STRIBOL LEGEND
~~~~~ A	HOMERUN TO PANEL "A", CIRCUITS 1 and 3
HP-1,2	INDICATES HOMERUN TO HOUSE POWER PANEL "HP-1", CIRCUIT #2
	UNDERFLOOR CONDUIT/WIRE
\$a	SWITCH — SINGLE POLE — LOWER CASE LETTER "a" INDICATES THIS SWITCH TO CONTROL LIGHT FIXTURES DESIGNATED WITH LOWER CASE "a".
\$	COMBINATION SWITCH AND DUPLEX RECEPTACLE — MOUNTING AT 48" A.F.F.
Sos	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.
©S a 3 CONTROL	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR - GIRCUNDICATES FIXTURE CONTROL
(PP) _a	LINE VOLTAGE POWER PACK. WIRE ALL RELATED SENSORS TO POWER PACK FOR ROOM LIGHTING CONTROL
$\oplus$	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
$\oplus$	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY — VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT
<b>⊕</b>	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
Фg	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.
Фс	DUPLEX RECEPTACLE - MOUNTED AT 7" ABOVE COUNTERTOP
$\mathbb{O}^{G}_{WP}$	WEATHERPROOF DUPLEX RECEPTACLE, WITH GFCI PROTECTION, MOUNTING AT 24" ABOVE FINISHED GRADE
Φs	DUPLEX RECEPTACLE - SURGE SUPPRESSION TYPE
•	DUPLEX RECEPTACLE - FLOOR MOUNTED
Φ	RECEPTACLE, DUPLEX, 15A-125V-A.C. HOSPITAL GRADE, 18" A.F.F. U.O.N. HUBBELL CAT.# HBL 8200-1
Δ	A.D.A. COMPLIANT WALL SCONCE, U.O.N.
А	FLUORESCENT LIGHT FIXTURE TYPE "A"
$O_{B}$	LIGHT FIXTURE TYPE "B"
ЮС	LIGHT FIXTURE - WALL MOUNTED TYPE "C"
<b>⊚</b> _{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

CIRCUIT BREAKER PANELBOARD

UNFUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

HARDWARE IF REQUIRED

EXIT SIGN - WALL MOUNTED, LOCATE SO THAT SIGN IS VISIBLE

THROUGH BEAM AND SOFFIT DROPS, PROVIDE PENDANT MOUNTING

SINGLE OR THREE PHASE MOTOR - SEE DRAWINGS FOR DESCRIPTION

COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH

JUNCTION BOX - SIZE AND MOUNTING HEIGHT/LOCATION AS

3 1 A	HOMERUN TO PANEL "A", CIRCUITS 1 and 3		CONDUIT TURNED UP/CONDUIT TURNED DOWN
2	INDICATES HOMERUN TO HOUSE POWER PANEL "HP-1", CIRCUIT #2	W.P.	WEATHERPROOF
	"	U.O.N.	UNLESS OTHERWISE NOTED
	UNDERFLOOR CONDUIT/WIRE	E.C.	ELECTRICAL CONTRACTOR
	SWITCH - SINGLE POLE - LOWER CASE LETTER "a"	M.C.	MECHANICAL CONTRACTOR
	INDICATES THIS SWITCH TO CONTROL LIGHT FIXTURES DESIGNATED WITH LOWER CASE "a".	HVAC	HEATING VENTILATION AND AIR CONDITIONING
	DESIGNATED WITH ESWEN CASE U.	A.F.F.	ABOVE FINISHED FLOOR
	COMBINATION SWITCH AND DUPLEX RECEPTACLE — MOUNTING AT 48" A.F.F.	TS[]/[]FS	FIRE ALARM SPRINKLER SYSTEM TAMPER SWITCH/FLOW SWITCH
	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.	F/SD	FIRE ALARM COMBINATION FIRE/SMOKE DAMPER
	WALL BOX DIMMER 0-10 VOLTS WITH SWITCH, MOUNTED 48" A.F.F.	$\Theta_{S}$	FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED, PHOTO-ELECTRONIC TYPE.
3 CONTROL	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR  CIRCUITS CIRCUIT	F	FIRE ALARM PULL STATION, ADA COMPLIANT, SINGLE ACTION, SEMI-FLUSH MOUNT - AT 48" A.F.F.
	d - INDICATES FIXTURE CONTROL	E≺	FIRE ALARM HORN WITH FLASHING STROBE LIGHT, ADA COMPLIANT - MOUNTING AT 80" A.F.F.
	LINE VOLTAGE POWER PACK. WIRE ALL RELATED SENSORS TO POWER PACK FOR ROOM LIGHTING CONTROL	Sd	FIRE ALARM (VISUAL ONLY) FLASHING STROBE LIGHT, ADA COMPLIANT - MOUNTING AT 80" A.F.F.
	SPECIAL PURPOSE RECEPTACLE - SEE PLANS FOR DESCRIPTIONS	F	FIRE ALARM HORN WITH FLASHING STROBE LIGHT, ADA COMPLIANT — CEILING MOUNTED
	DUPLEX RECEPTACLE - MOUNTED AT 18" A.F.F. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.	H	FIRE ALARM SYSTEM HEAT DETECTOR.
	DUPLEX RECEPTACLE - TOP SWITCHED, BOTTOM CONTINUOUS	FACP	FIRE ALARM CONTROL PANEL/COMMAND CENTER
	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY — VERIFY EXACT MOUNTING HEIGHT WITH ARCHITECT	FAAP	FIRE ALARM ANNUNCIATOR PANEL
	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	<u>S</u>	PHOTOELETRONIC, DUCT TYPE, SMOKE DETECTOR WITH SAMPLING TUBES AS REQUIRED AND CONTRACTS CONNECTE TO SHUT DOWN AIR CONDTIONING UNIT. MOUNT IN RETURN AIR SYSTEM PER MANUFACTURER'S RECOMMENDATION.
	DUPLEX RECEPTACLE - G.F.C.I. TYPE		REMOTE POWER/ALARM INDICATOR/KEY SWITCH, INDICATES POWER ON CONDITION, MOMENTARY
"	DUPLEX RECEPTACLE MOUNTED AT 84" A.F.F., OR AS INDICATED ON DRAWING	⟨K⟩	CONTACT SWITCH ACTUATES ALARM RELAY AND REMOTE L.E.D., FLUSH MOUNTED AT LOCATION INDICATED ON PLANS.
	DUPLEX RECEPTACLE — MOUNTING AT 48" A.F.F.	⟨F⟩	FLOW SWITCH, FURNISHED & INSTALLED BY SPRINKLER CONTRACTOR, CONNECTED BY
	DUPLEX RECEPTACLE - MOUNTED AT 7" ABOVE COUNTERTOP		ELECTRICAL CONTRACTOR.
)	WEATHERPROOF DUPLEX RECEPTACLE, WITH GFCI PROTECTION, MOUNTING AT 24" ABOVE FINISHED GRADE	➀	TAMPER SWITCH, FURNISHED & INSTALLED BY SPRINKLER CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.
	DUPLEX RECEPTACLE - SURGE SUPPRESSION TYPE	<b>©</b>	GAS VALVE, FURNISHED & INSTALLED BY PLUMBING CONTRACTOR, CONNECTED TO KITCHEN HOOT CONTROL SYSTEM AND FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
	DUPLEX RECEPTACLE - FLOOR MOUNTED	P	PRESSURE SWITCH, FURNISHED & INSTALLED BY SPRINKLER CONTRACTOR, CONNECTED BY ELECTRICAL CONTRACTOR.
	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.	NURSE	CALL SYMBOL LEGEND
]	FLUORESCENT LIGHT FIXTURE TYPE "A"		M MASTER STATION
	LIGHT FIXTURE TYPE "B"		U UPS FOR MASTER STATION

DS DUTY STATION

N BATH STATION WITH CORD

R REPEATER LOCATOR

T RECEIVER

PS POWER SUPPLY

LOCATIONS.

FLOORS AS REQUIRED IN FIELD.

B PATIENT BED STATION WITH CALL CORD

△ DOME LIGHT —CORRIDOR NURSE CALL SYSTEM CALL LIGHT

R6 RECEIVER WITH 6 RELAY OUTPUTS FOR DOME LIGHTS

R9 RECEIVER WITH 9 RELAY OUTPUTS FOR DOME LIGHTS

SECURITY SYSTEM SYMBOL LEGEND

DOOR CONTACT, PROVIDED BY OTHERS. PROVIDE JUNCTION BOC AS REQUIRED AND 1/2"C

KEYPAD, PROVIDED BY OTHERS. PROVIDE 4" SQUARE EXTRA DEEP BOX WITH SINGLE GANG

ELECTRIC STRIKE, PROVIDED BY OTHERS. PROVIDE ROUGH-INS AS REQUIRED AND 1/2"C

TELECOMMUNICATION MAIN GROUNDING BAR, HARGER GBI SERIES. INSTALL IN MDF AND IDF

ELECTROMAGNETIC DOOR HOLDER WITH MOUNTING HARDWARE FOR WALL OR CEILING OR

PLASTER RING. STUB 1/2"C ABOVE CEILING & TERMINATE WITH INSULATE BUSHING.

STUBBED ABOVE CEILING AND TERMINATE WITH INSULATED BUSHING.

STUBBED ABOVE CEILING & TERMINATE WITH INSULATE BUSHING.

## 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, ÒR 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 LOATIONS 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
- 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 TEKTONE 500 SYSTEM.
- 7. CONTACT OWNER'S PREFERRED VENDOR/INSTALLER FOR PRICING.

## 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.

# TELEPHONE / DATA / CABLE TV SYMBOL LEGEND

	TELEPHONE/CATV TERMINAL BACKBOARD, 3/4"D. FLAME RETARDANT PLYWOOD.
$\bigcirc$	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.

- 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.

## PAGING / INTERCOM SYMBOL LEGEND

	PAGING	SPEAKER,	INSTALL	(1)16/2	SHIELDED	SPEAKER	CABLE,	SEE
T4	NOTES	ON THIS S	SHEET.					

- TRANSFORMER, 120V-A.C., 12V-D.C. OUTPUT VOLTAGE, 2.5 AMP. AIPHONE CAT.# PT-1225UL
- POWER SUPPLY, 24V-A.C., 28 WATTS, 12V-D.C., 1.0 AMP AIPHONE CAT.#
- VIDEO INTERCOM MASTER, DESK MOUNTED, WITH COMMUNICATION AND DOOR RELEASE CAPABILITY. AIPHONE CAT.# JK-1MED
- VIDEO INTERCOM SUB, SURFACE MOUNTED, W/SEL DOOR RELEASE. AIPHONE CAT.# JK-1HD, MOUNTED AT 54" A.F.F.
- INTERCOM DOOR STATION, SURFACE MOUNT AT 54" A.F.F. AIPHONE CAT.# JK-DA
- RELAY 12V-D.C., CONTACT RATING, 110V-A.C., 1 AMP; 24V-D.C., 1 AMP. AIPHONE CAT.# RY-18L

PRELIMINARY NOT FOR CONSTRUCTION

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LEGEND & SYSTEMS NOTES SCALE: NO SCALE

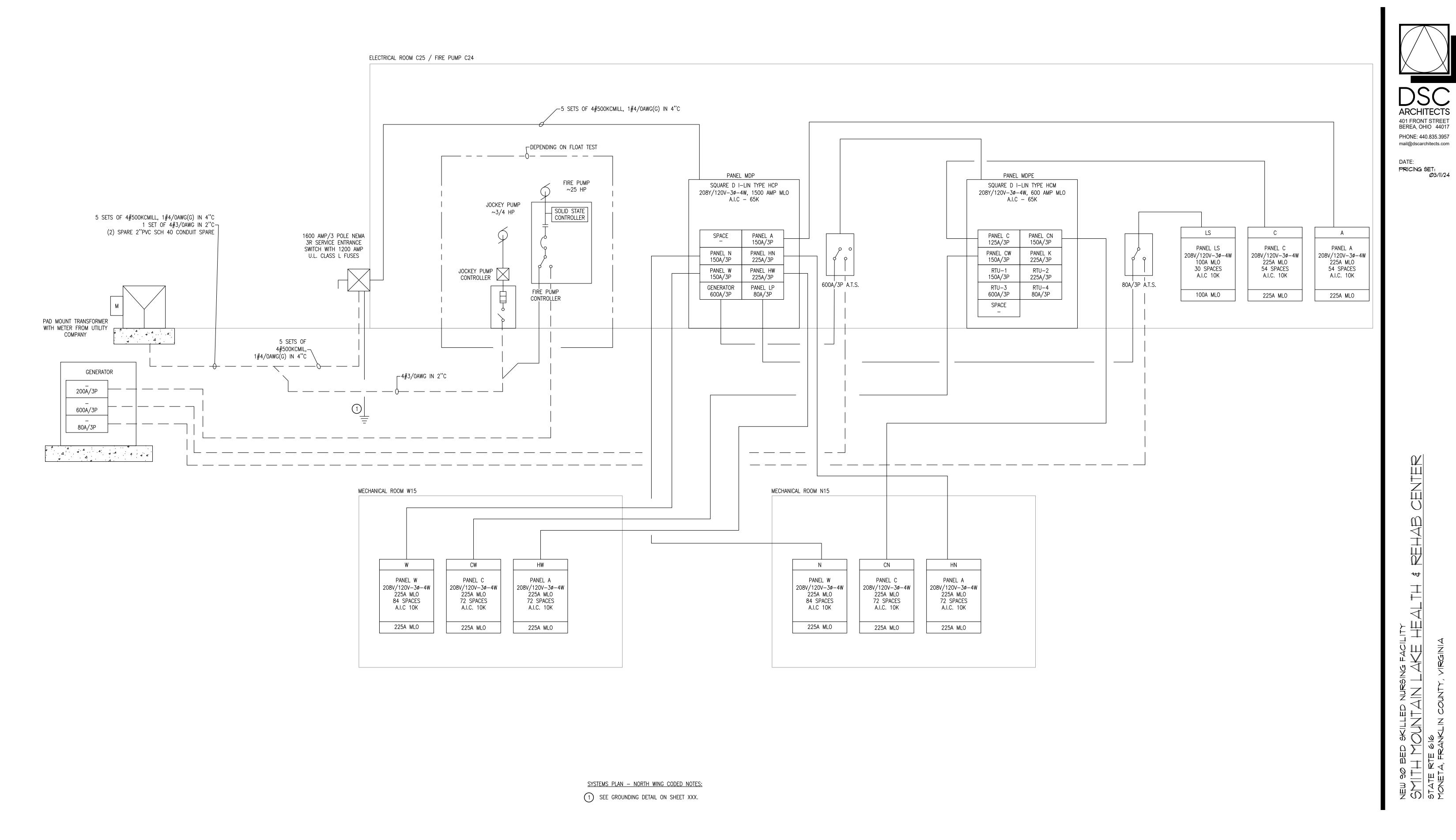
DSCA PROJECT NO.

23*.*Ø46

**401 FRONT STREET** 

BEREA, OHIO 44017

PHONE: 440.835.3957



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POWER RISER DIAGRAM

SCALE: NO SCALE

DSCA PROJECT NO. 23.046

COORDINATE WITH

SECURITY SYSTEM SUPPLIER.

FIRE ALARM REMOTE

ANNUNCIATOR PANEL

LOCATED IN LOBBY.

REMOTE TEST

PROVIDE WIRING TO

DEVICES INDICATED—

STATION —



FAAP

### NOTES:

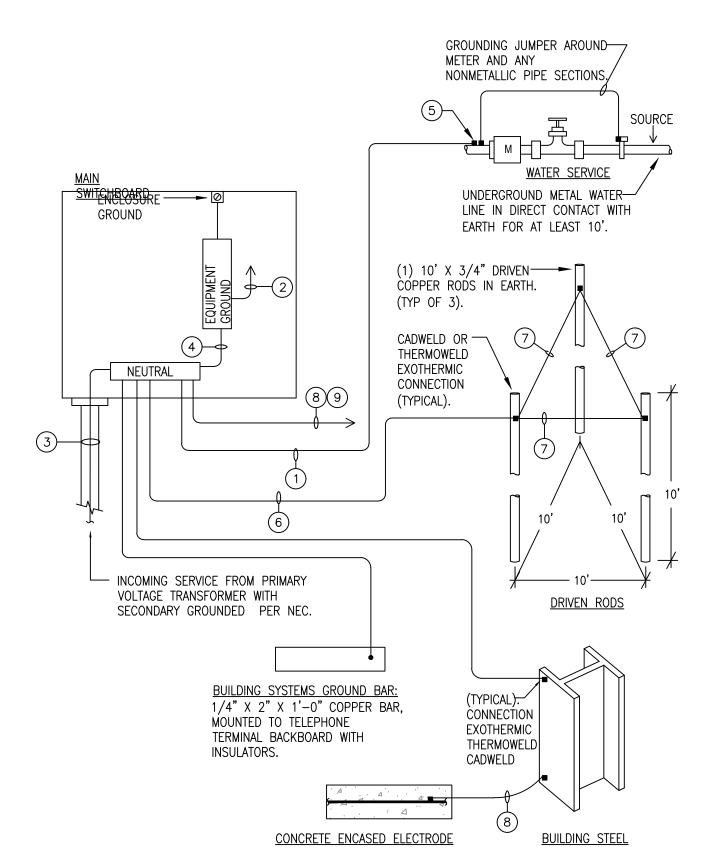
2#12AWG, 1#12AWG (G),

OFF SITE MONITORING.

PROVIDE WIRING TO

FIRE PUMP CONTROLLER

- 1. 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.
- 2. 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.
- 3. CONTACT OWNER'S PREFERRED VENDOR/INSTALLER FOR PRICING.
- 4. 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.
- 5. PROVIDE AND INSTALL POWER SUPPLY(IES) AS REQUIRED TO OPERATE ADDITIONAL DEVICES ON PLAN.
- 6. ALL CONTROL CABINETS SHALL BE GROUNDED PER NEC REQUIREMENTS AND PER SPECIFICATIONS.
- 7. PRIOR TO ROUGH-IN, SUBMIT PLAN TO AUTHORITY HAVING JURISDICTION AND RECEIVE WRITTEN APPROVAL. EXACT LOCATION OF SMOKE DETECTORS SHALL BE VERIFIED.
- 8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
- 9. STROBE LIGHTS SHALL BY SYNCHRONIZED.
- 10. SUBMIT DRAWINGS INDICATING ALL DEVICES ON PLAN TOGETHER WITH DETAILED RISER DIAGRAM INDICATING ALL DEVICES AND WIRING. PROVIDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS
- 11. SHOP DRAWINGS PREPARED BY INSTALLER SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.
- 12. FACP TO MONITOR FIRE PUMP/MOTOR RUNNING, LOSS OF PHASE AND PHASE REVERSAL.
- 13. FINAL WIRING AND DEVICE CONNECTIONS SHALL BE MADE UNDER DIRECT SUPERVISION OF MANUFACTURER'S REPRESENTATIVE.
- 14. PROVIDE CERTIFIED TEST REPORT UPON COMPLETION.
- 15. 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.



# 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.
- 2 GROUND CONDUCTORS TO OTHER POINTS AND EQUIPMENT, AS REQUIRED BY NEC ARTICLE 250.
- 3 SERVICE ENTRANCE PHASE CONDUCTORS WITH GROUNDED (NEUTRAL) CONDUCTOR.
- (4) MAIN BONDING JUMPER SHALL BE SIZED PER TABLE 250.66 OF THE NEC.
- 5 INTERIOR METAL WATER PIPING CONNECTIONS SHALL BE MADE WITHIN 5' OF BUILDING ENTRANCE PER NEC 250.52(A)(1)
- G GROUND ROD ELECTRODE PROVIDE #4/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR, PER NEC 250.66(A)
- 7) BONDING CONDUCTOR SHALL BE SIZED PER TABLE 250.66 OF THE NEC.
- 8 METAL WATER PIPING AND STRUCTURAL STEEL %%UNOT%%U INTENTIONALLY GROUNDED SHALL BE BONDED PER NEC 250.104 AND NEC TABLE 250.66.
- 9 OTHER METAL PIPING (GAS, ETC.) SHALL BE BONDED PER NEC 250.104 AND NEC TABLE 250.122.

ARCHITECTS
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BEREA, OHIO 44017
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mail@dscarchitects.com

DATE: PRICING SET: Ø3/11/24

PRELIMINARY NOT FOR CONSTRUCTION

ELECTRICAL DETAILS

SCALE: NO SCALE

= Ø 5

DSCA PROJECT NO.

23.046

DSC
ARCHITECTS
401 FRONT STREET BEREA, OHIO 44017
PHONE: 440.835.3957 mail@dscarchitects.com
DATE: PRICING SET: Ø3/11/24

	NEW	PAN	ELBO	ARD			С						SCH	EDUL	E									
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	ROOM 228								1	+ †	•	1								ROOM 229	84	
_		L										- 1		0.0	0.0	0.0	0.8	5.5	1.2	CONNECTED KVA	8	

	VOLTAGE BUS SIZE			H-4W	MAINS TOTAL		MLO 49.7	KVΔ			MC	UNTING	3				REMAR	RKS:	A.I.C 10K				
	D03 012L	. 225	Alvii	LOAD (	100	LOAD	43.7	BRKR		PH		BRKR			LOAD (	KVA)							
No.	SERVES	LTG	RCPT		A/C	HTG	MISC	TRIP		В	СР	TRIP	MISC	HTG			RCPT	LTG	SERVES No.				
1 LI	GHTING	1.0						20	1 -	<del>•</del>	+ 1	20G	0.8						REFRIG-7 2		Largest Motor	0.50	125%
3 1-	TOASTER		0.2					20	1 -	<del>│ </del>	+ 1	20G	0.8						FRZR42 4		Remaining Motors	0.10	
5 9A	A-DISH DISP		0.2					20G	1 -	$\vdash$	<b>♦</b> 1	20					1.8		MW-20.1 6		<b>Motor Demand</b>	0.73	
7 10	).2-HOT WELL						3.0	40G	2	┿┼┼	+ 1	20G					1.8		HTD. CAB57 8				
9 10	).2-HOT WELL						3.0	400	-	┝	+ 1	20					0.6		3R - LOUNGE, DINING RM 10		Lighting	1.05	125%
11 56	SICE CUBE						1.0	20G	1 -	$\vdash$	↑     1	20					0.6		3R - LOUNGE, DINING RM 12		Lighting Demand	1.31	
13 3F	R - NURSE STATION		0.6					20	1 -	┿┼	+ 1	20					0.6		3R - LOUNGE, DINING RM 14				
15 3F	R - NURSE STATION		0.6					20	1 -	┿	1	20					0.2		1R - MEDS COUNTER 16		Receptacles	10.00	100%
17 1F	REFRIG						0.8	20G	1 -	$\vdash$	1	20					0.2		1R - MEDS COUNTER 18		Receptacles	10.38	50%
19 EF	F-11 + 1R		0.2	0.1				20	1 -	•	1	20					0.2		2R (TVs) 20		Receptacle Demand	15.19	
21 D	OOR SECURITY						0.2	20	1 -	┝	1	15				0.5			EF-1 22				
23 D	OOR SECURITY						0.2	20	1 -	$\vdash$	<b>↓</b> 1	20					0.2		DATA SYS 24		Miscellaneous	6.1	
25 D	OOR SECURITY						0.2	20	1 -	┿┼	1	20					0.8		4R - QUAD AT BED 26		Heating	3.4	75%
27 4F	R - QUAD AT BED		0.8					20	1 -	<b>├</b>	<del>  1</del>	20					0.8		4R - QUAD AT BED 28		AC	14.0	
29 4F	R - QUAD AT BED		0.8					20	1 -	$\vdash$	<u> 1</u>	20					0.8		4R - QUAD AT BED 30				
31 4F	R - QUAD AT BED		0.8					20	1 -	┿┼┼	<del>  1</del>	20					0.8		4R - QUAD AT BED 32	Design Load for	Panel Total	26	KVA
33 4F	R - QUAD AT BED		0.8					20	1 -	┷	<del>  1</del>	20					0.8		4R - QUAD AT BED 34	3		71.9	Amps
35 4F	R - QUAD AT BED		0.8					20	1 -		<b>↓</b> 1	20					0.8		4R - QUAD AT BED 36				•
37 TII	ME CLOCK						0.2	20	1	┵	$\frac{1}{1}$	20					0.8		4R - QUAD AT BED 38				
39 6F	R - QUAD AT BED		1.2					20	1	╽	$\frac{1}{1}$	20					0.8		4R - QUAD AT BED 40				
41 AC						1.7		15	1		1			1.7					ACU-2 42				
43									<del>-</del>	<del>† i</del>	+								44				
45 CI	U-1				7.6			35	3 -		3	30			6.5				CU-2 46				
47								200	-	+	<del> </del>				1				48				
2.2	R - QUAD AT BED		0.8					20	1	+	$\frac{1}{1}$								50				
51									1 -		1 1								52				
53									1 -	+	$+\frac{1}{1}$								54				
55									1 _		1 1								56				
57									1 -	$\Box$	∓ <del> </del> †								58				
59									1	$\vdash$	<u> </u>								60				
61									1 -		$\pm \frac{1}{1}$								62				
63		1							1		<del> </del>								64				
65		+							1	+	$\pm \frac{1}{1}$								66				
67		+							1 -		‡ <u>†</u>				<del>                                     </del>	-			68				
69		+							1	+	<del> </del>				-	-			70				
71		+			<del>                                     </del>				1	+	1 1		+		<del>                                     </del>	<del>                                     </del>			70				
7.1			L								•		10.2	3.4	14.0	0.6	20.4	4.0	CONNECTED KVA 50				

SCHEDULE

NOTES:
CB 21,23 - PROVIDE LOCK-ON DEVIC

NEW PANELBOARD

							D00 012L.	
							0=5//=0	
						No.	SERVES	LTG
					1	_	LIGHTING	1.3
							DATA SYS	
							DOOR SECURITY	
							1R	
						_	1R REFRIG	
							1R - LOUNGE COUTNER C27	
	Largest Motor	0.00	125%				1R - KITCHEN COUTNER C1	3
	Remain'g Motors	6.00				_	3R - OFFICE C46,44,42	
	Motor Dmd	6.00				2.2	4R - ACTIVITY RM C31	
							3R + 1R (TVs)	
	Lighting	0.00	125%				4R - OFFICE C10	
	Lighting Dmd	0.00					DOOR SECURITY - FRONT E	ENTRY
						25		
	Receptacles	0.00	100%			_	3R - ELEC AND PUMP, C24,	25
	Receptacles	0.00	50%				2R (TVs)	
	Receptacle Dmd	0.00					2R (TVs) - PHYS T, CONF,C	12,C09
							EF-3	
	Miscellaneous	0.0				35	EF-4	
	Heating	31.8	75%	24		37	ELEC. I.G MAINT. C08	
	AC	33.6				39	1R - OFFICE C36	
						41	1 - MICORW KITCHEN C13	
r	Panel Total	30	KVA			43		
		82.9	Amps			45		
						47		
						49		
						51		
						53		
						NOT 1. C	ES: B#23 PROVIDE LOCK-ON DE	VICE

			A.I.C - 10K	KS:	REMAR					UNTING	IVIO			4 KVA	MLO 71.4	MAINS 225 TOTAL LOAD				VOLTAGE: BUS SIZE:	
Largest Moto							LOAD (			BRKR		PH		BRKR		(KVA)	LOAD				
Remain'g Mot		No.	SERVES	LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	P	A B C	Р	TRIP	MISC	A/C HTG	MTR	RCPT	LTG	SERVES	Vo.
Motor Dmd		2	ROOM 102 - A				.8	1		15	1 2	+ -	2	15		1.8				101 - A	1
		4	ROOM 102 - A				.0			15	-  ⁻	+				1.0				101 - A	3
Lighting		6	ROOM 104 - B				2.4	2		20	2	+	2	20		2.4				103 - B	5
Lighting Dmd		8	ROOM 104 - B				1.4	2		20	H ²	+	2	7 20		2.4				103 - B	7
		10	ROOM 106 - B				2.4	2		20	2	-	2	20		2.4				105 - B	9
Receptacles		12	ROOM 106 - B				2.4	2		20	- 2		2	7 20		2.4				105 - B	11
Receptacles		14	ROOM 108 - B				2.4	2		20	2	+	2	20		2.4				107 - B	13
Receptacle Di		16	ROOM 108 - B				1.4			20	L  ²	-	2	7 20		2.4				107 - B	15
		18	ROOM 110 - B				2.4	2		20	2	+	2	20		2.4				109 - B	17
Miscellaneou		20	ROOM 110 - B				4.4	2		20	L  ²	+	2	20		2.4				109 - B	19
Heating		22	ROOM 112 - B				2.4	2		20	2	+	_	20		2.4				111 - B	
AC		24	ROOM 112 - B				2.4	2		20	- 2	+	2	7 20		2.4				111 - B	23
		26	ROOM 114 - B							00		•		00		0.4				113 - B	25
for Panel Total	Design Load for	28	ROOM 114 - B				2.4	2		20	2	+	2	20		2.4				113 - B	
		30	ROOM 116 - B					_		00		+	_			0.4				115 - B	29
		32	ROOM 116 - B				2.4	2		20	2	$\downarrow$	2	20		2.4				115 - B	31
		34	ROOM 118 - B					_				$\longrightarrow$								117 - B	33
		36	ROOM 118 - B				2.4	2		20	2	+	2	20		2.4				117 - B	
		38	ROOM 120 - A																	119 - A	
		40	ROOM 120 - A				8.	1		15	2	+	2	15		1.8				119 - A	
		42	ROOM 122 - A				_									4.5				121 - A	
		44	ROOM 122 - A				8.	1		15	2	<del>†      </del>	2	15		1.8				121 - A	
		46	ROOM 124 - A				_													123 - A	
		48	ROOM 124 - A				8.	1		15	2	+   `	2	15		1.8				123 - A	
		50	ROOM 126 - A									+	-							125 - A	
		52	ROOM 126 - A				8.	1		15	2		2	15		1.8				125 - A	
		54	ROOM 128 - A								H	+								127 - A	
		56	ROOM 128 - A				8.	1		15	2	<del>     </del>	2	15		1.8				127 - A	
		58	ROOM 130 - A				11.2	· ·				$\bot \downarrow$	-			0.00				129 - A	
		60	ROOM 130 - A				.8	1		15	2	+++	2	15		1.8				129 - A	
		62	EH-2												-					131 - A	
		64	EH-2			3.0				20	2	++-	2	15		1.8				131 - A	
		66	L11-2								2	+ 1			-		-			101 - A	65
		68									2		2	20	+		3.0				67
		70									1	+   -	1	++	+	+ + +					69
		72									1	+ +	1	+	+	+ +					71
		12	1		1 1		1	1	1	1	r   '	$\overline{}$			1	1 1		1			7 1

SCHEDULE

SCHEDULE

MOUNTING

REMARKS: A.I.C. - 10K

0.2 0.04 0.8 0.04 0.2 0.04

0.2 0.04 ROOM 131 0.7 45.4 5.34 CONNECTED KVA

REMARKS: A.I.C - 10K

SERVES

7R - NURSE W06 6
1R - OUTDOOR 8
1R - OUTDOOR 10

ROOM 102 - A 26

ROOM 102 - A 2

ROOM 104 - B 32

ROOM 106 - B 34

ROOM 106 - B 36

ROOM 108 - B 3 ROOM 108 - B 40

ROOM 110 - B 42 ROOM 110 - B 44

ROOM 112 - B 4 ROOM 114 - B 5

ROOM 114 - B 5

ROOM 116 - B ROOM 116 - B

ROOM 118 - B 58

ROOM 118 - B 60

ROOM 121 - A2

ROOM 121 - A2 64 ROOM 123 - A 66 ROOM 123 - A 6'

RROM 125 - A

RROM 125 - A ROOM 127 - A 74 ROOM 127 - A 7

ROOM 129 - A

ROOM 129 - A 80 ROOM 131 - A 82 Remaining Motors

Miscellaneous

Design Load for Panel Total

Motor Demand 0.88

Lighting Demand 6.67

Receptacle Demand 27.70

Receptacles 10.00 100%

Receptacles 35.40 50%

5.34 125%

35 KVA

97.9 Amps

NEW PANELBOARD

NEW PANELBOARD

VOLTAGE: 208Y/120V-3PH-4W MAINS 225 MLO

5 5R - W. HALLWAY 7 SPA - 1R DEDICATED

11 ATTIC LIGHTS

21 ROOM 120 - A 23 ROOM 120 - A

27 ROOM 101 - A 29 ROOM 103 - B

31 ROOM 103 - B

33 ROOM 105 - E

35 ROOM 105 - B

37 ROOM 107 - B 39 ROOM 107 - B

41 ROOM 109 - B 43 ROOM 109 - B

45 ROOM 111 - B2 47 ROOM 111 - B2

51 ROOM 113 - E

53 ROOM 115 - B 55 ROOM 115 - B

57 ROOM 117 - B 59 ROOM 117 - B

61 ROOM 119 - A

63 ROOM 119 - A 65 ROOM 122 - A

67 ROOM 122 - A

69 ROOM 124 - A 71 ROOM 124 - A 73 ROOM 126 - A 75 ROOM 126 - A

77 ROOM 128 - A

79 ROOM 128 - A 81 ROOM 130 - A

83 ROOM 130 - A

NOTES:

9 2R - CHARTS/OUTDOOR

VOLTAGE: 208Y/120V-3PH-4W MAINS 225 MLO

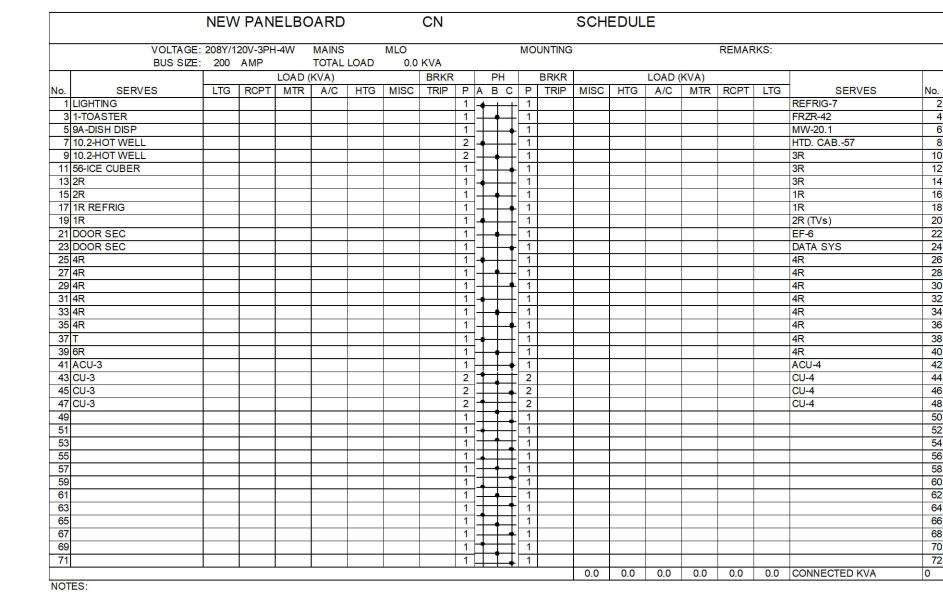
	NEW PAI	NEL				LS						SCH	EDUL	E.								
	208Y/120V	MAINS		MLO					МО	UNT	ING	SURFA	CE		REMAF	RKS:						
BUS SIZE:	100 AMP	TOTAL		7.5	KVA																	
		LOAD (	,			BRKR			Н		BRKR			LOAD (							Largest Motor	0 125%
SERVES	LTG RCP	T MTR	A/C	HTG	MISC	TRIP	Р	A B	C	Р	TRIP	MISC	HTG	A/C	MTR	RCPT	LTG		No.		Remain'g Motors	0
GHTING - CENTER	0.5					20	1	+ 1	$\dashv$	1	20							LIGHTING - W COORIDOR	2		Motor Dmd	0
GHTING - EXT. CETNER	1.1					20	1	++	<b>⊢</b> -[	1	20							LIGHTING - W DINNING C04	4			
GHTING - PHYST, ACT, C12,C31	1.1					20	1	++	<b>→</b> [	1	20						0.8	LIGHTING - N COORIDOR	6		Lighting	7 125%
ATTERY CHARGER						20	1	+	+L	1	20						0.6	LIGHTING - N LOUNGE N05	8		Lighting Dmd	9
LOCK HTR.						20	1	┿	+[	1	20						0.7	LIGHTING - N DINING N04	10			
							1	++	<b>→</b> [	1	20						0.6	LIGHTING - W LOUNGE WOS	12		Receptacles	0 100%
							1	<del>                                     </del>	<del></del> -[	1	20	0.2						DOOR SEC P.S ELEC.RM C25	14		Receptacles	0 50%
							1	+	<b>-</b> [	1	20	0.2						FACP - ELEC. RM C25	16		Receptacle Dmd	0
							1	++	<b>-</b> ∳∫	1	20	0.2						NURSE CALL	18			
							1	+	+[	1									20		Miscellaneous	1
							1	+	<b>-</b>	1									22		HVAC Blwrs	0
							1	++	∳-[	1									24		AC	0
							1	•	+1	1									26			
							1		<b>-</b>	1									28	Design Load for	Panel Total	9 KVA
							1			1									30			26 Amps
	<b>-</b>					•						0.6	0.0	0.0	0.0	0.0	6.9	CONNECTED KVA	7.5			•

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

DSCA PROJECT NO. 23.Ø46

PRELIMINARY

NOT FOR CONSTRUCTION



		Largest Motor	0.00	125%	
		Remain'g 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		
		Heating	0.0	75%	0
		AC	0.0		
L	Design Load for	Panel Total	0	KVA	
			0	Amps	
L					

	VOLTAGE:	208Y/1	20V-3PH	I-4W	MAINS		MLO					MOL	JNTING					REMAR	RKS:		
	BUS SIZE:	200	AMP		TOTAL	LOAD	0.0	KVA													
				LOAD (	(KVA)			BRKR		PI	Н		BRKR			LOAD (	KVA)				
Vo.	SERVES	LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	P	А В	С	Р	TRIP	MISC	HTG	A/C	MTR	RCPT	LTG	SERVES	No
1	ROOM 201								2 .	<b>4</b> I	+	2								ROOM 202	
3	ROOM 201								2 -	+	$+$ $\lceil$	2								ROOM 202	
5	ROOM 203								2 .	+	∳-	2								ROOM 204	
7	ROOM 203								2 -	•	<b>→</b> 「	2								ROOM 204	
9	ROOM 205								2 -	+	<b>→</b> [	2								ROOM 206	1
11	ROOM 205								2 -	+	∳-	2								ROOM 206	1
13	ROOM 207								2 .	•	<b>→</b> [	2								ROOM 208	1
15	ROOM 207								2 -	+	4	2								ROOM 208	1
17	ROOM 209								2	+	∳-	2								ROOM 210	1
19	ROOM 209								2 -	•	4	2								ROOM 210	2
21	ROOM 211								2 -		4	2								ROOM 212	2
23	ROOM 211								2 -	+	∳-	2								ROOM 212	2
	ROOM 213								2 -	•	<b>-</b> ∔⁻	2								ROOM 214	2
	ROOM 213								2 -	+		2								ROOM 214	2
	ROOM 215								2	$\perp$	_♠┌	2								ROOM 216	3
	ROOM 215								2 -	•	<b>⊥</b> ⊦†	2								ROOM 216	3
	ROOM 217								2 -	⇃	-	2								ROOM 218	3
	ROOM 217								2		_•	2								ROOM 218	3
	ROOM 219								2			2								ROOM 220	3
	ROOM 219								2	1	<b>⊥</b> ⊦	2								ROOM 220	4
	ROOM 221								2			2								ROOM 222	4
	ROOM 221								2	<del>†</del>	<del>-  </del>	2								ROOM 222	4
	ROOM 223								2		⇉↾	2								ROOM 224	4
	ROOM 223								2	•		2								ROOM 224	4
	ROOM 225								2	+	-+-	2								ROOM 226	5
	ROOM 225								2		<b>_</b>	2								ROOM 226	5
	ROOM 227								2	+		2								ROOM 228	5
	ROOM 227								2	$\pm \pm$	-+⊦	2								ROOM 228	5
	ROOM 229								2		⇉⊦	2								ROOM 230	5
	ROOM 229								2	+	┷╌	2								ROOM 230	6
	EH-3								2	1 .	⇉⊦	2								EH-4	6
	EH-3								2	$oldsymbol{\sqcup}$	4	2								EH-4	6
65									2	1		2								E11-4	6
67									2		<b>_</b>	2									6
69	1	<del> </del>			<del> </del>				1	+	⊢	1						<del>                                     </del>			7
71		<del>                                     </del>							1	+	—+⊢	1						-			7
<i>i</i> = 1	l									++	•	-		0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	0

		Largest Motor	0.00	125%	
		Remain'g Motors	0.00		
2		Motor Dmd	0.00		
4					
6		Lighting	0.00	125%	
8		Lighting Dmd	0.00		
0					
2		Receptacles	0.00	100%	
4		Receptacles	0.00	50%	
6		Receptacle Dmd	0.00		
8					
0		Miscellaneous	0.0		
2		Heating	0.0	75%	0
4		AC	0.0		
6					
2 4 6 8 0 2 4 6 8 0 2 4 6 8 0 2 4 6 8 0 0 2 4 6 6 0 6 0 6 0 0 0 2 0 0 0 0 0 0 0 0 0 0	Design Load for	Panel Total	0	KVA	
0	_		0	Amps	
2					
4					
6					
0					

		NEV	V PAN	IELBO	DARD			HN						SCH	EDUL	E					
	VOLTAC	SE: 208Y/	120V-3PI	H-4W	MAINS		MLO					MO	UNTING					REMAR	RKS.		
		ZE: 200			TOTAL	LOAD		KVA										1121111111			
				LOAD				BRKR		PH	1		BRKR			LOAD (	KV/A)				
No.	SERVES	LTG	RCPT	20 7 a a 4 a c a c a c a c a c a c a c a c a	A/C	HTG	MISC	TRIP	PA		C	Р	TRIP	MISC	HTG	A/C	MTR	RCPT	LTG	SERVES	No.
_	ROOM 201		7.00.		1				2 _	-	$\hat{\neg}$	. 2								ROOM 202	
	ROOM 201			1					2 -	I	_	2								ROOM 202	2 4 6 8
5	ROOM 203								2 -	ш	_	2								ROOM 204	6
	ROOM 203								2 -	┥┤	4	2								ROOM 204	8
9	ROOM 205								2 -	╽	_	2								ROOM 206	10
11	ROOM 205								2 -	$\sqcup$	4	2								ROOM 206	12
13	ROOM 207								2 -	┵	4	2								ROOM 208	14
15	ROOM 207								2 -	<b>│</b>	_	2								ROOM 208	16
17	ROOM 209								2 -	$\sqcup$		2								ROOM 210	18
19	ROOM 209								2 -	┿	_	2								ROOM 210	20
21	ROOM 211								2 -	┥	$\dashv$	2								ROOM 212	22
23	ROOM 211								2 -	₩	+	2								ROOM 212	24
25	ROOM 213								2 -	┥┤	-	2								ROOM 214	26
27	ROOM 213								2 -	+	+	2								ROOM 214	28
29	ROOM 215								2 -	$\vdash$	+	2								ROOM 216	30
31	ROOM 215								2 -	┥┤	-	2								ROOM 216	32
33	ROOM 217								2 -	<del>│                                    </del>	+	2								ROOM 218	34
35	ROOM 217								2 -	$\vdash$	•	2								ROOM 218	36
37	ROOM 219								2 -	┥┤	_	2								ROOM 220	38
39	ROOM 219								2 -	┥	+	2								ROOM 220	40
41	ROOM 221								2 -	Н	+	2								ROOM 222	42
43	ROOM 221								2	•	ヸ	2								ROOM 222	44
	ROOM 223								2 _	$\sqcup$	+	2								ROOM 224	46
47	ROOM 223								2 -	┪	+	2								ROOM 224	48
49	ROOM 225								2		⇉	2								ROOM 226	50
	ROOM 225								2 -	┥┤	+	2								ROOM 226	52
	ROOM 227								2		士	2								ROOM 228	54
55	ROOM 227								2 _	$\leftarrow$	4	2								ROOM 228	56
57	ROOM 229								2 -	<del>│ </del>	+	2								ROOM 230	58
	ROOM 229								2		I	2								ROOM 230	60
	EH-3								2 -	+	+	2								EH-4	10 12 14 16 18 20 22 24 26 28 30 32 34 36 40 42 44 46 48 50 52 54 56 60 62 64 66
	EH-3								2		⇉	2								EH-4	64
65									2	1	干	2									66
67									2 -	<del>   </del>	+	2									68
69									1		ヸ	1									70
71									1 _	+1	+	1									72
NOT														0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	0

		Largest Motor	0.00	125%	
o.		Remain'g Motors	0.00		
2 4 6		Motor Dmd	0.00		
4					
6		Lighting	0.00	125%	
8		Lighting Dmd	0.00		
10 12					
12		Receptacles	0.00	100%	
14		Receptacles	0.00	50%	
16		Receptacle Dmd	0.00		
18					
20		Miscellaneous	0.0		
22		Heating	0.0	75%	0
24		AC	0.0		
26					
28	Design Load for	Panel Total	0	KVA	
220 222 224 226 228 230 332 334 336			0	Amps	
32					
34					
36					

		NEV	/ PAN	IETRO	DARD			Α						SCH	EDUL	.E					
	VOLTAGE: BUS SIZE:		20V-3PH AMP	H-4W	MAINS TOTAL		MLO 0.0	KVA				MOL	JNTING					REMAR	RKS:		
				LOAD	(KVA)			BRKR		Ph	1		BRKR			LOAD (	KVA)				
О.	SERVES	LTG	RCPT			HTG	MISC	TRIP	Р	А В			TRIP	MISC			MTR	RCPT	LTG	SERVES	
	LIGHTING								1 .	4 1		1								1R	
	LIGHTING	<u> </u>							1			1								6R	
	LIGHTING	1							1.		_	1								6R	
	6R								1			1								1R	
	4R								1			1								2R	
11	6R								1	ĹĬ	_	1								SPARE	
13	6R								1 -		_[	1								1R	
	6R								1			1								1R	
	6R				1				1		_	1								1R	
	6R								1 -			1								3R	
	4R								1		<u>_</u>	1								1R	
	4R								1	$\perp$		1								1R	
	2R								1 -		_[	1								4R	
	2R								1	I	<u> </u>	1									
	2R								1		_	1									
31									1			1									
33				1					1.	L		1									
35									1.		_	1									
37			1	1					1		_[	1									
39									1	$I \perp I$		1									
41									1	Ī	T	1									
43									1	•		1									
45				-					1	+		1			-						
<del>1</del> 7		1	-	-			-		1	$\perp$		1							-		
+7 49									1	+ +		1									
51									1	<b>→</b>		1									
53									1	+		1									
55									1	$\downarrow$		1									
57									1	++		1									
59						-			1	+	-	1									
31						-			1	+	4	1									-
33									1	+		2								EDH-2	
	EDH-1								2	++	-	2								EDH-2	
	EDH-1					-			2	+		1							-	WSHR	
	EH-5					-			2	+	+	2								ELEC DRY	
	EH-5					-			2	++	+	2								ELEC DRY	
	WSH/EXT					-			2	<del>     </del>	+	2								ELEC DRY	
	WSH/EXT					-			_	+		$\overline{}$								ELEC DRY	
	WSH/EXT					-			2	+	+	2							-	ELEC DRY	
	GAS DRY					-			2	+		2					-		-	GAS DRY	
	GAS DRY					-			2	++		2					-		-	GAS DRY	
	GAS DRY		1	1		-			2	++	+	2							-	GAS DRY	
ပ၁	GAS DKI	1	<u> </u>		l				4		•	_		0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	

	Largest Motor	0.00	125%	
	Remain'g Motors	0.00		
	Motor Dmd	0.00		
	The barrier			
	Lighting		125%	
	Lighting Dmd	0.00		
	Receptacles	0.00	100%	
	Receptacles	0.00	50%	
	Receptacle Dmd	0.00		
	Miscellaneous	0.0		
	Heating	0.0	75%	0
	AC	0.0		
		0	KVA	
sign Load for	Panei Iotai			
		0	Amps	

		NEW	/ PAN	ELBC	ARD			K						SCH	EDUL	E					
	VOLTAGE:	208Y/1	20V-3PH	I-4W	MAINS		MLO					MOI	JNTING					REMAI	RKS:		—
	BUS SIZE:				TOTAL	LOAD	0.0	KVA													
				LOAD (	KVA)			BRKR		PI	Н	1	BRKR			LOAD	(KVA)				
No.	SERVES	LTG	RCPT	MTR	A/C	HTG	MISC	TRIP	Р	А В	С	Р	TRIP	MISC	HTG	A/C	MTR	RCPT	LTG	SERVES	No
1	LIGHTING								1	•	=	1								STEAMER-4	$\vdash$
3	1-TOASTER								1	1	<b>,</b>	2								STEAMER-4	
5	3-CONV.OVEN								1	$\downarrow$	<b>-</b> -∔	2								STEAMER-4	Г
7	3-CONV.OVEN								1	<b> </b>	<b>-</b> ∔「	2								STEAMER-4	Г
9	5.1/5.2-HOOD FANS								2		<b>,</b>	1								HOOD-5	1
11	5.1/5.2-HOOD FANS								2	++	-	1								ANSUL-5.3	1
13	5.1/5.2-HOOD FANS								2	-	++[	1								SHUNT PWR.	1
15									1	1	┷┼┌	1									1
17									1	$\vdash$	┷ा	1									1
19									1	4	$\vdash\vdash$	1									2
21	6-SKILLET								2	1	┷┼┌	1								REFRIG7	1
23	6-SKILLET								2	1	<del>⊢ </del> [	2								HEATED BASE-9	- 2
25	6-SKILLET								2	[ <del>  </del>	$\vdash$	2								HEATED BASE-9	1
27	6-SKILLET								2	<b>│</b> <del>│                                   </del>	$\vdash$	2								COFFEE-12	1
29	14-SLICER								1	$\vdash$	-+	2								COFFEE-12	1
31	15-MIXER								1	-	$\vdash\vdash$	1								TEA-22	;
33	20.1-M.W.								1		<b>,</b> —[	1								COND. HOOD-30.1	;
35	21-JUICER								1	$\downarrow \downarrow \downarrow$	-	1								ICE MAKER-35	;
37	25-D.W.								2	$\vdash$	<u></u>	2								DISPOSER-27	1
39	25-D.W.								2	$\dashv$	$\vdash$	2								DISPOSER-27	
41	25-D.W.								2	$\sqcup$	<b></b> ∳⊺	2								DISPOSER-27	4
43	32.1-MED.TEMP COIL								1	<del>     </del>		2								LOW TEMP. COIL-32.3	4
45	32.2-MED.TEMP.COND.UNIT								2			2								LOW TEMP. COIL-32.3	4
47	32.2-MED.TEMP.COND.UNIT								2	[ <del>+  </del>		2								LOW TEMP.COND.UNIT-32.	4
49	36-FOOD PROC.								1			2								LOW TEMP.COND.UNIT-32.	4 !
51	COOLER/FREEZER LTS.								1	-	H.	2								LOW TEMP.COND.UNIT-32.	4 !
53	54-H.T. CAB								1	<del>     </del>		1								1R	,
55	54-H.T. CAB								1			1								5R	!
57	55-BLENDER								1	1	┷┼┞	1								SPARE	!
59	2R								1		<b>-</b>	1								HEAT TRACE	(
61									1	$\Box$	二	1									(
63									1		┌─┿┞	1									(
65									1			1									(
67									1			1									(
69									1	┝┿╌┤	<del>     </del>	1									1
71									1			1									1
	1													0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED KVA	0

	Largest Motor	0.00	125%	
	Remain'g 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		
	Heating	0.0	75%	0
	AC	0.0		
Design Load for	Panel Total	0 KVA		
_		0	Amps	

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PANEL SCHEDULES

SCALE: 1/8" = 1-0"

DSCA PROJECT NO.

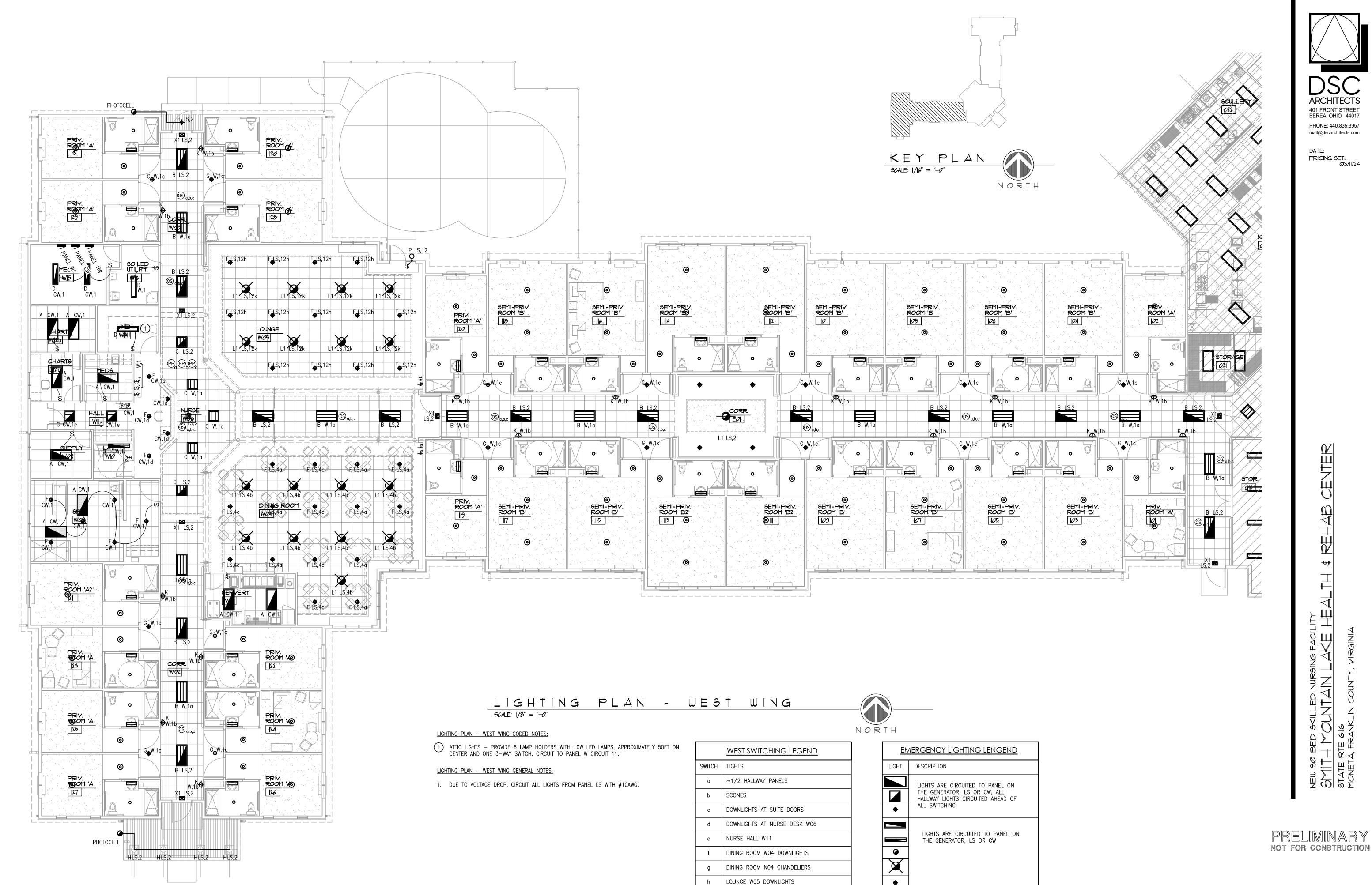
401 FRONT STREET BEREA, OHIO 44017

PHONE: 440.835.3957 mail@dscarchitects.com

PRICING SET: Ø3/11/24

DATE:

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



LOUNGE W05 CHANDELIERS

401 FRONT STREET BEREA, OHIO 44017 PHONE: 440.835.3957 mail@dscarchitects.com PRICING SET: @3/11/24

DSCA PROJECT NO.

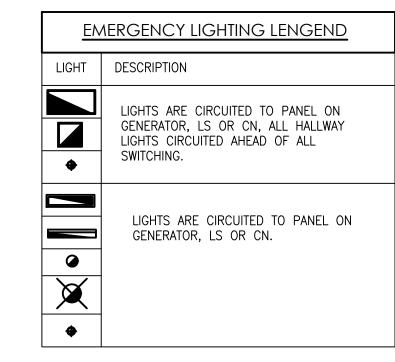
23.046 

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PRICING SET: Ø3/11/24





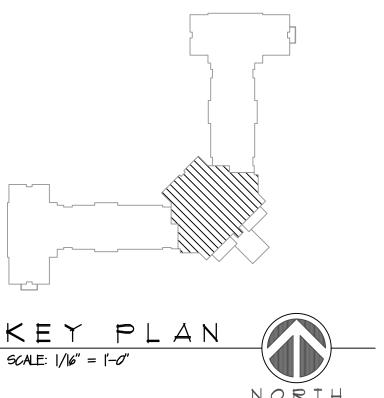
### <u>LIGHTING PLAN - CENTER CODED NOTES:</u>

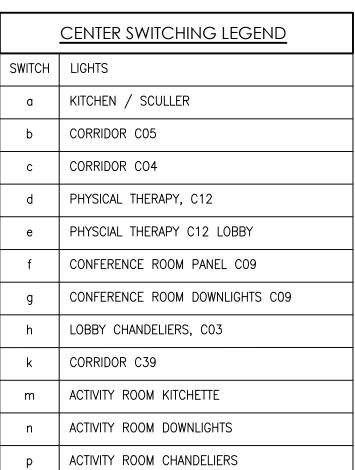
- ATTIC LIGHTS PROVIDE ONE THREE—WAY SWITCH AND CONNECT TO PANEL W, CIRCUIT 11 FOR ATTIC LIGHTS. SEE DETAILS ON SHEET E1.1. PROVIDE A SECOND THREE—WAY SWITCH AND CONNECT TO PANEL N, CIRCUIT 11 FOR ATTIC LIGHTS. SEE DETAILS ON SHEET E1.3.
- 2 VERIFY LOCATION OF LIGHT SWITCH IN THE FIELD WITH ARCHITECT/OWNER.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

### <u>LIGHTING PLAN — CENTER GENERAL NOTES:</u>

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

CENTER SWITCHING LEGEND		
SWITCH	LIGHTS	
а	KITCHEN / SCULLER	
b	CORRIDOR CO5	
С	CORRIDOR CO4	
d	PHYSICAL THERAPY, C12	
е	PHYSCIAL THERAPY C12 LOBBY	
f	CONFERENCE ROOM PANEL CO9	
g	CONFERENCE ROOM DOWNLIGHTS CO9	
h	LOBBY CHANDELIERS, CO3	
k	CORRIDOR C39	
m	ACTIVITY ROOM KITCHETTE	
n	ACTIVITY ROOM DOWNLIGHTS	
р	ACTIVITY ROOM CHANDELIERS	







& A,1c

STOR D A,1

D A,1

D A,1

C L\$,5d

C LS,5d

C LS,5e

FOOM 'A'

PRIV POOM A



N. (C) 1.5,3

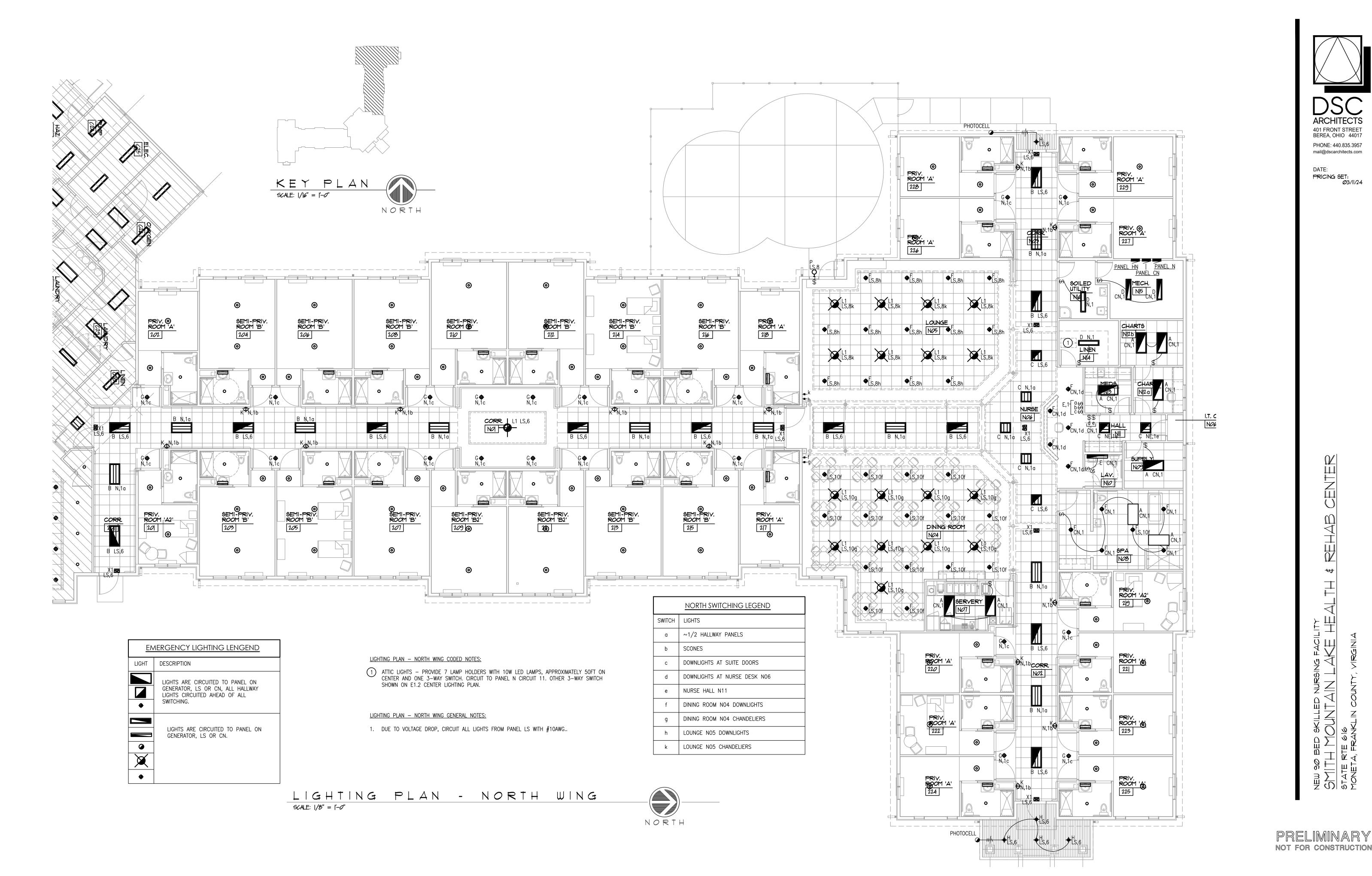
LS,3 VEST.

N 🔷 LS,3

PHOTOCELL

DSCA PROJECT NO.

PRELIMINARY NOT FOR CONSTRUCTION

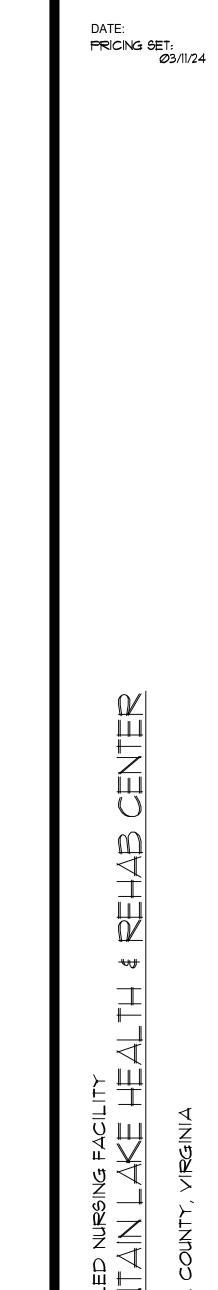


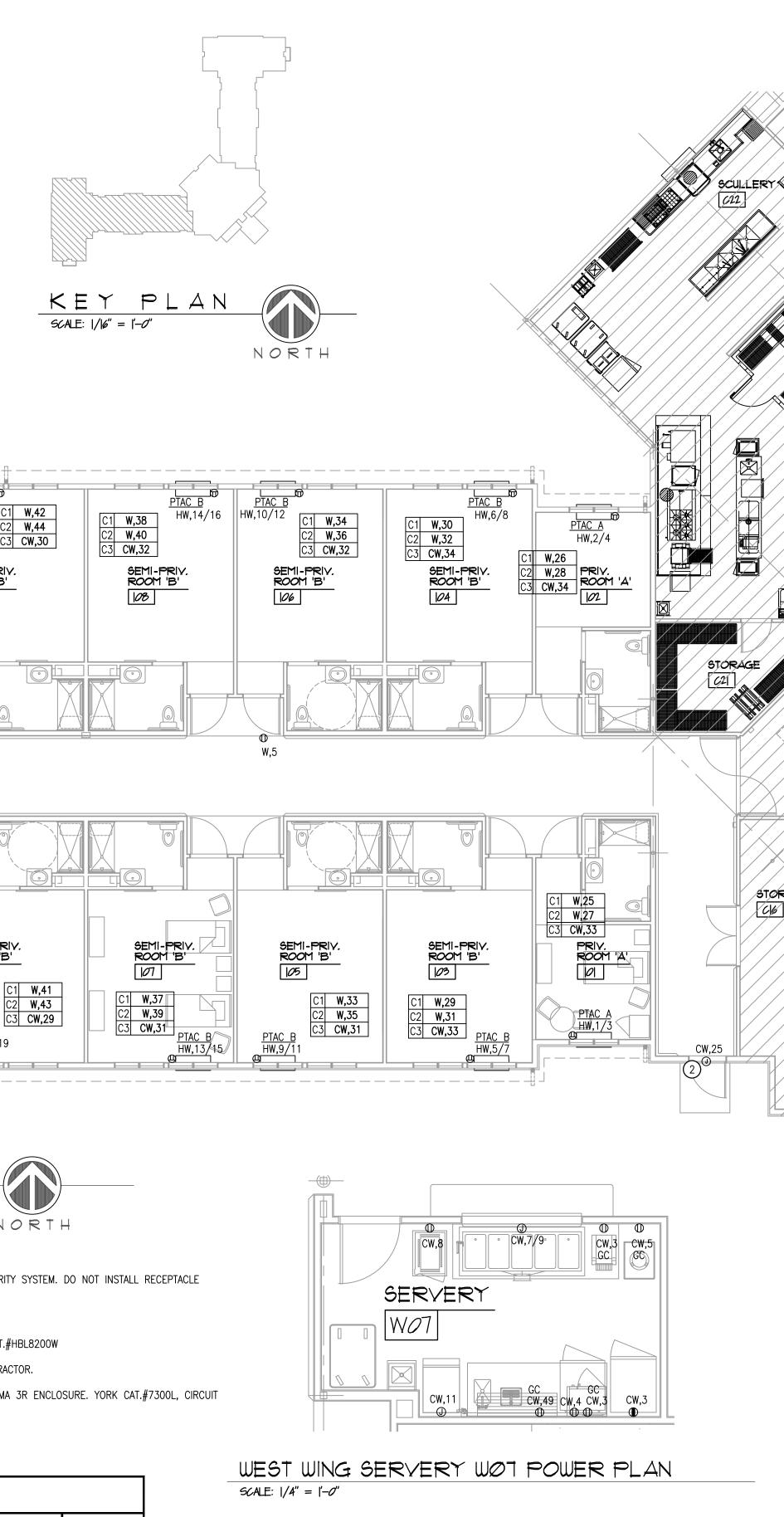
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WEST WING SERVERY WO7 POWER PLAN

2

CW

2#12AWG,1#12AWG(G) IN 3/4"C.

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

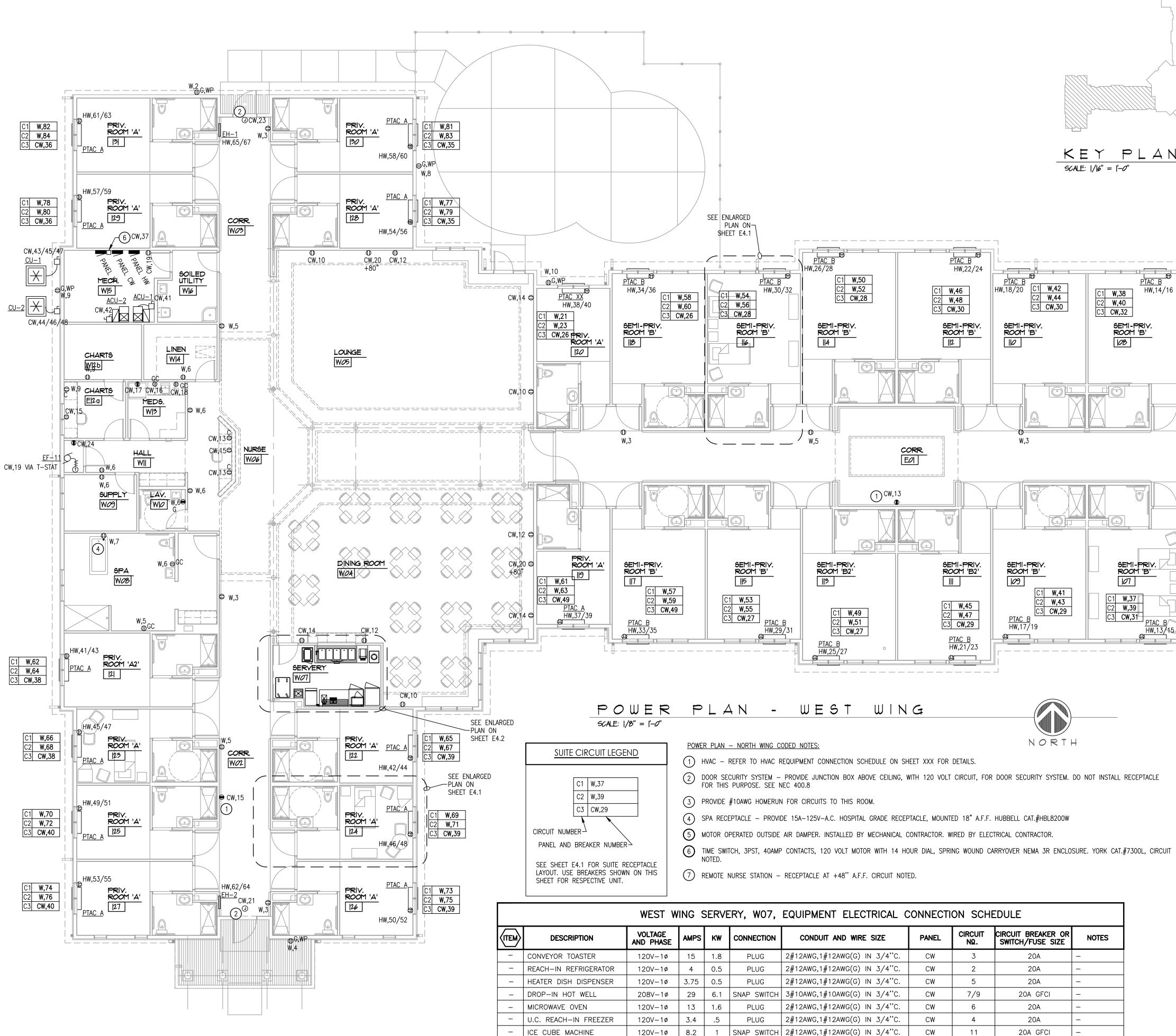
11

20A GFCI

20A

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> DSCA PROJECT NO. 23.046



ICE CUBE MACHINE

WITH THE MANUFACTURER'S RECOMMENDATION.

120V-1ø | 2

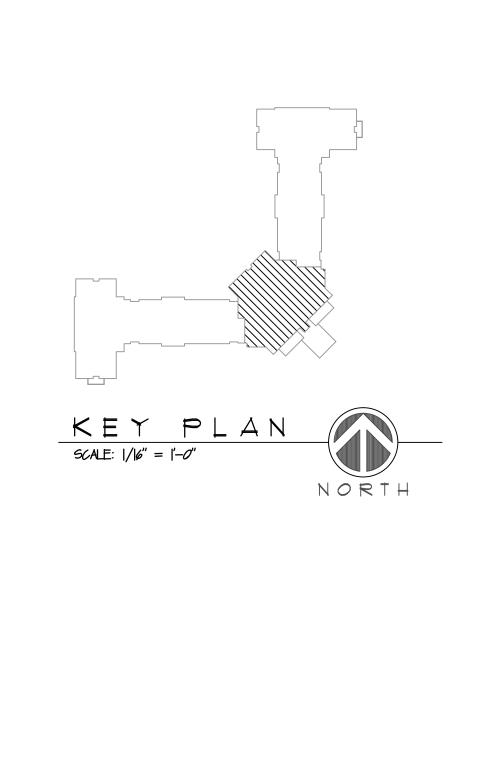
<u>SERVERY EQUIPMENT ELECTRICAL CONNECTION SCHEDULE NOTES:</u>

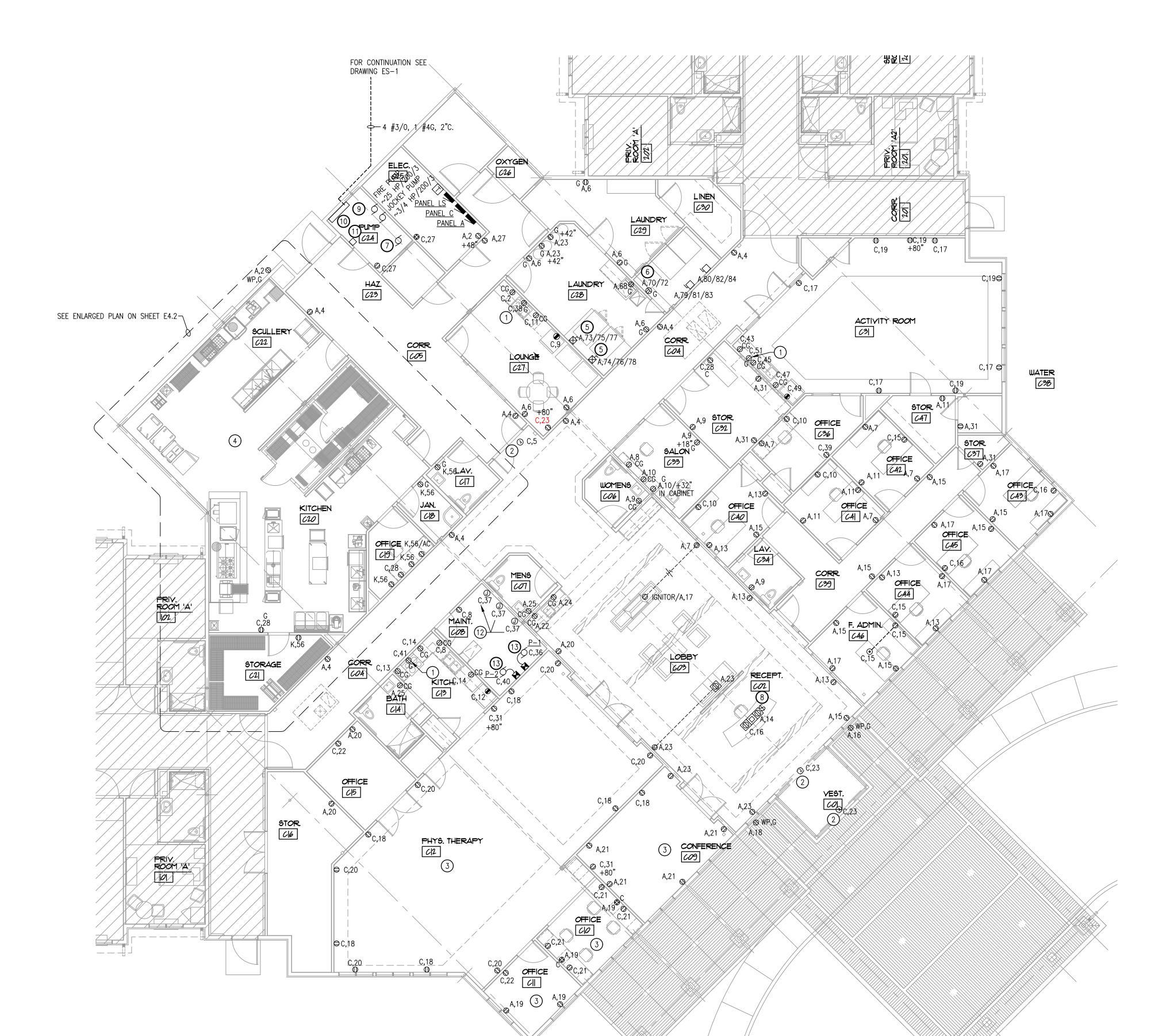
HEATED CABINET

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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.
- PROVIDE 2#12AWG, 1#12AWG(G) 1/2"C FOR CONTROL POWER TO FIRE PUMP CONTROLLER, PANEL C, CIRCUIT 53.
- PROVIDE 9#12AWG, 1#12AWG(G) 3/4"C TO FACP FOR FIRE PUMP ALARMS.
- 12 ELECTRONIC IGNITION
- HOT WATER CIRCULATING PUMP 120V-10, .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.

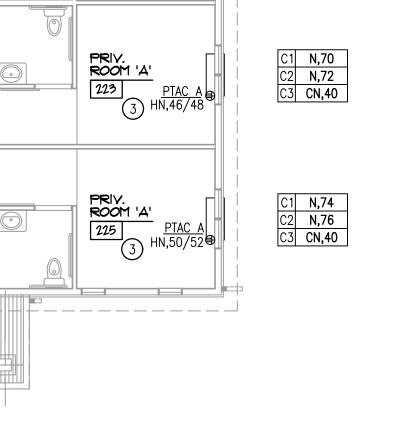
POWER PLAN - CENTER SCALE: 1/8" = 1'-0"

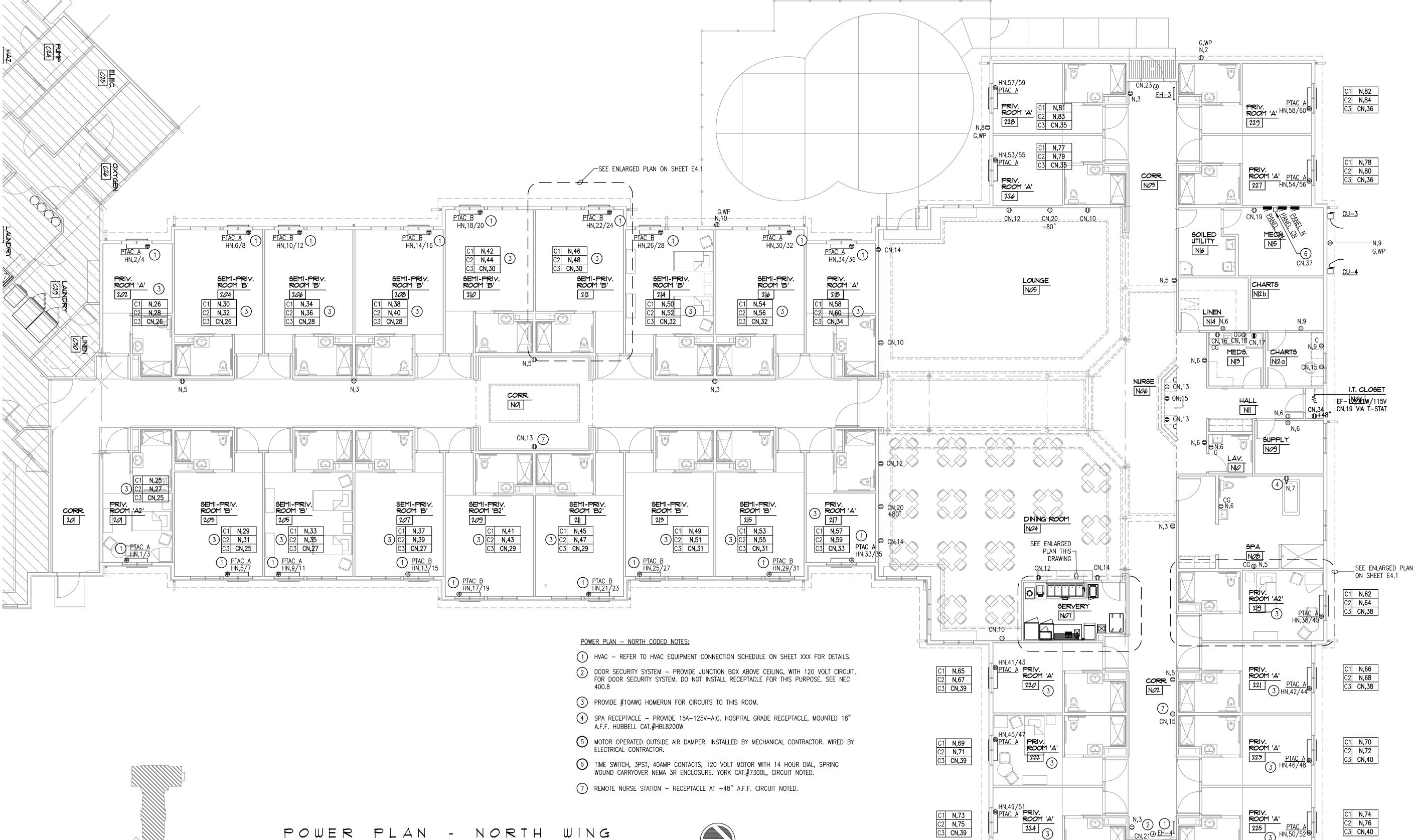


PRELIMINARY NOT FOR CONSTRUCTION

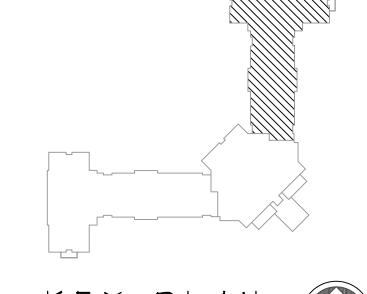


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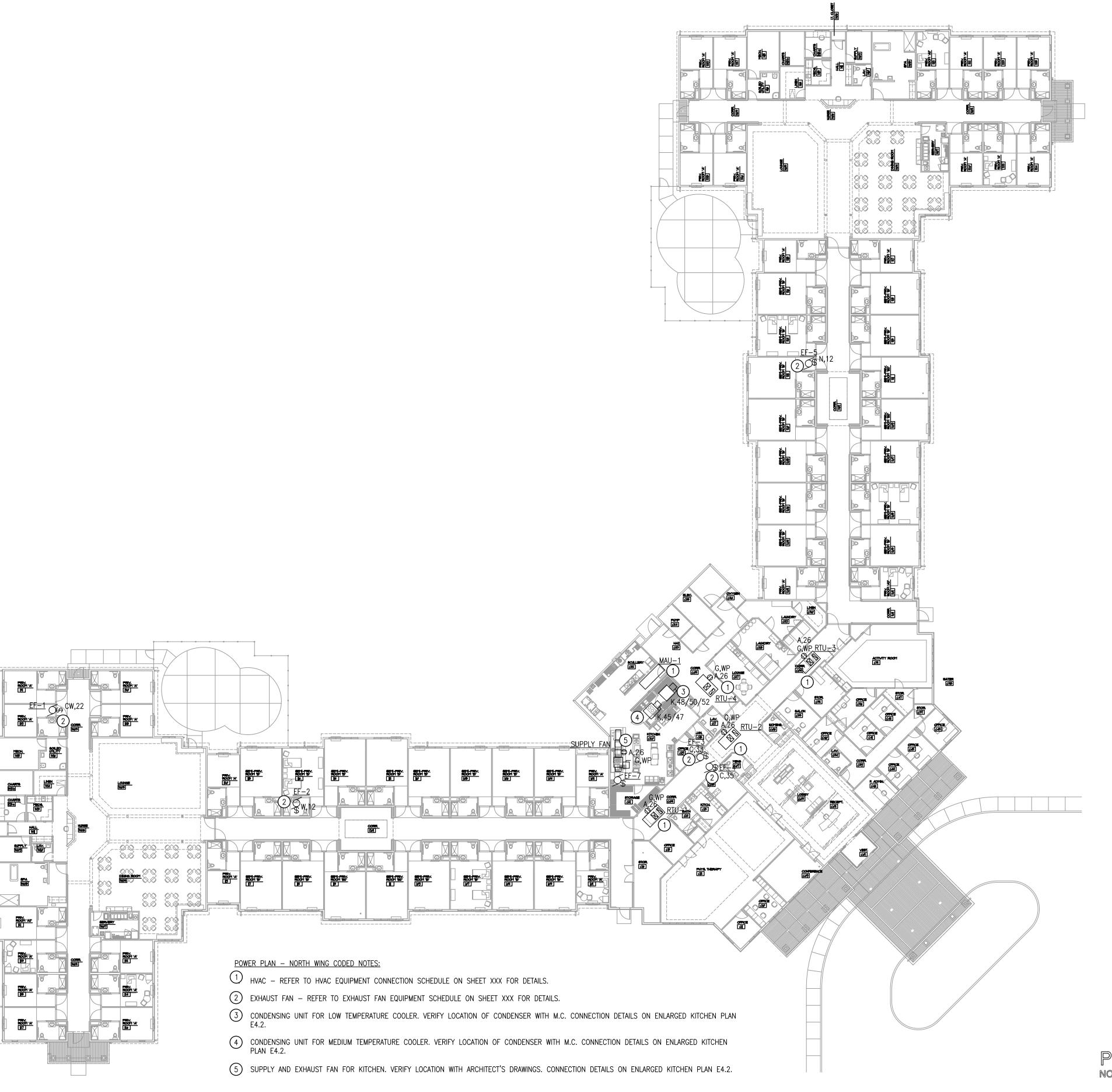


NORTH



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

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



ROOF ELECTRICAL PLAN

SCALE: |" = 20-0"

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PRICING SET: 03/11/24

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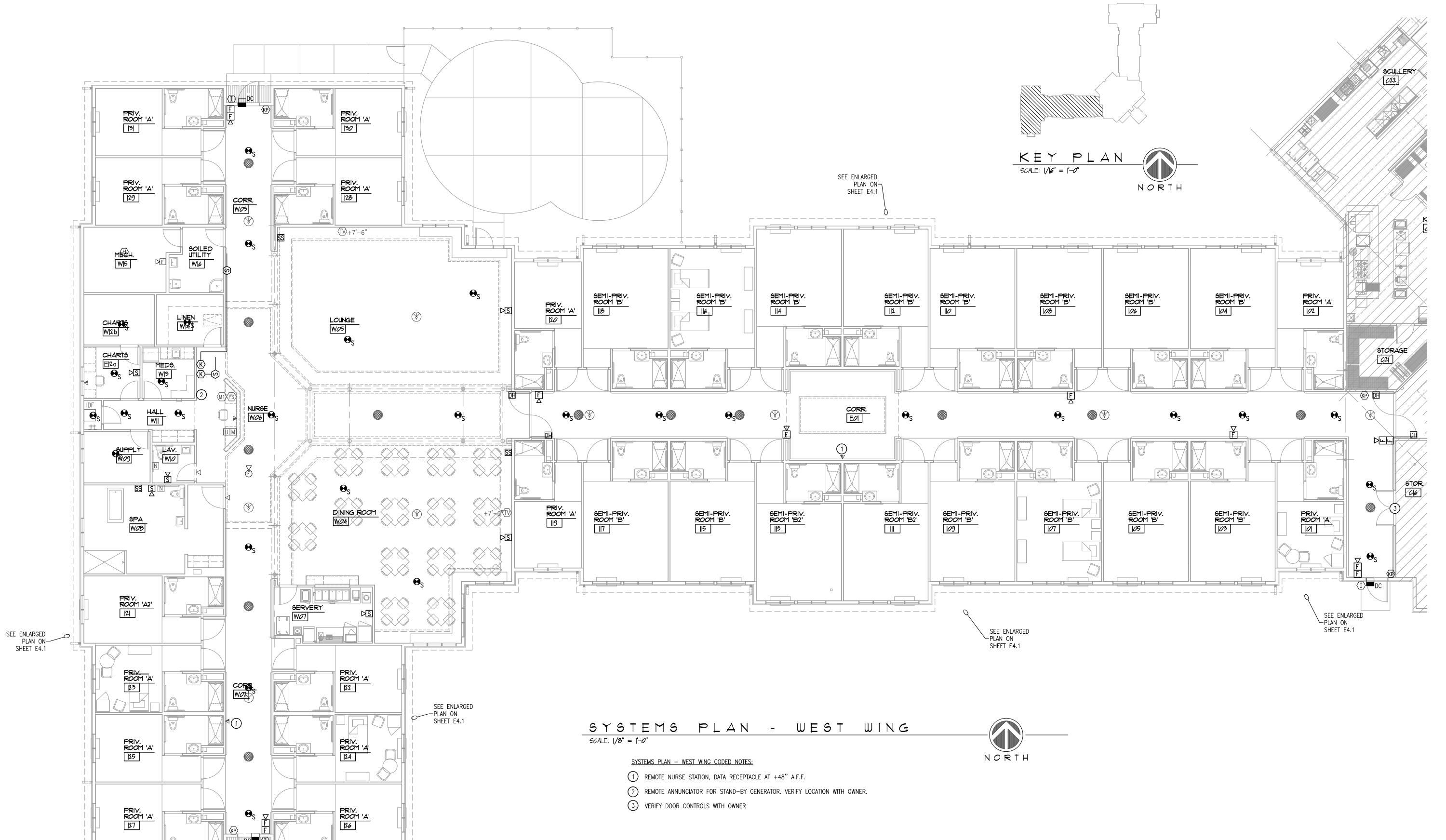
DSCA PROJECT NO.

ARCHITECTS

401 FRONT STREET
BEREA, OHIO 44017

PHONE: 440.835.3957 mail@dscarchitects.com

PRICING SET: Ø3/11/24



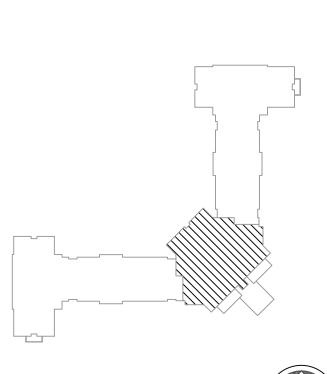
PRELIMINARY NOT FOR CONSTRUCTION

DSCA PROJECT NO. 23.046

<u>=</u>3.

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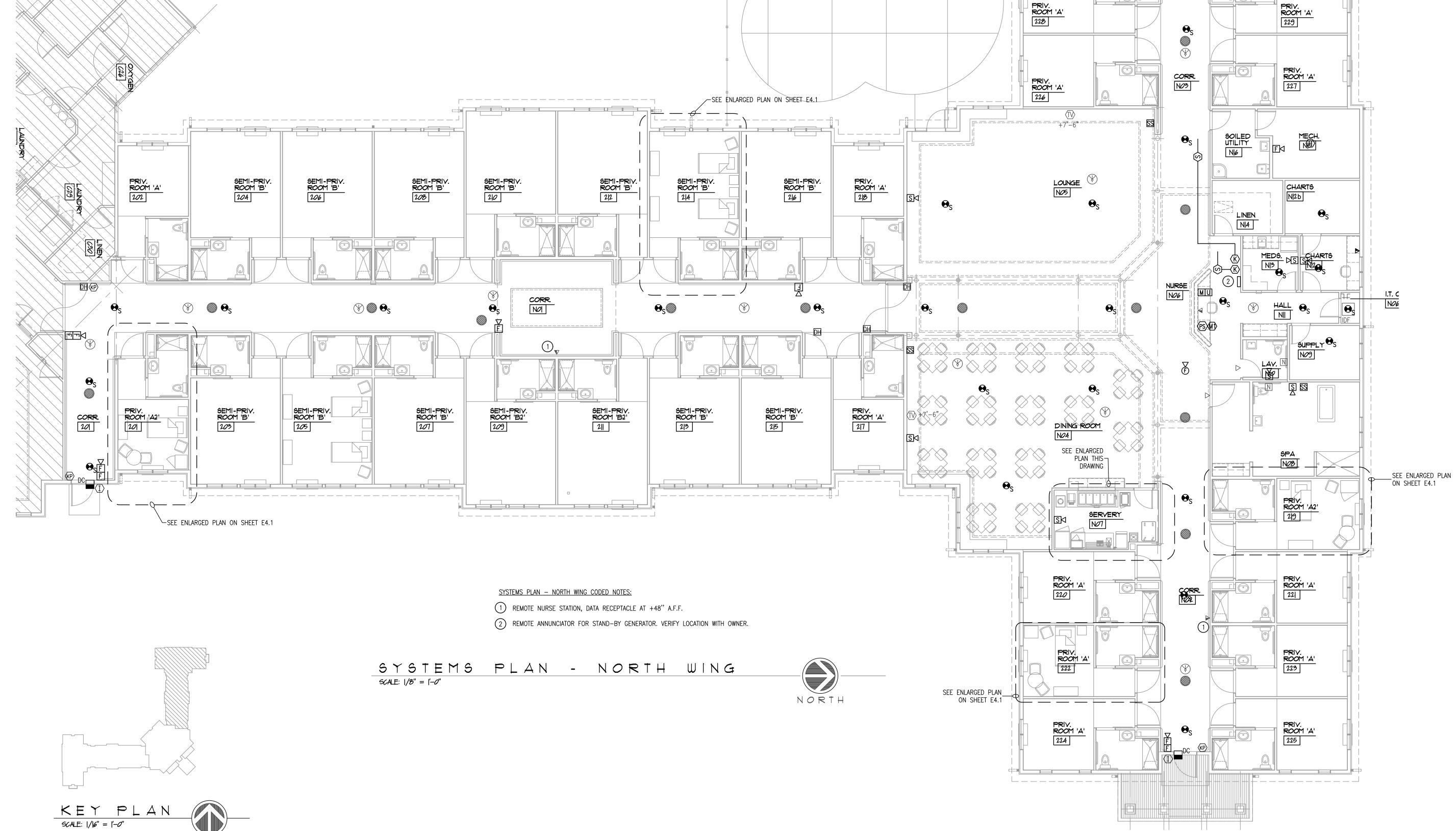


SCALE: 1/16" = 1'-0"





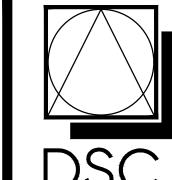




NORTH

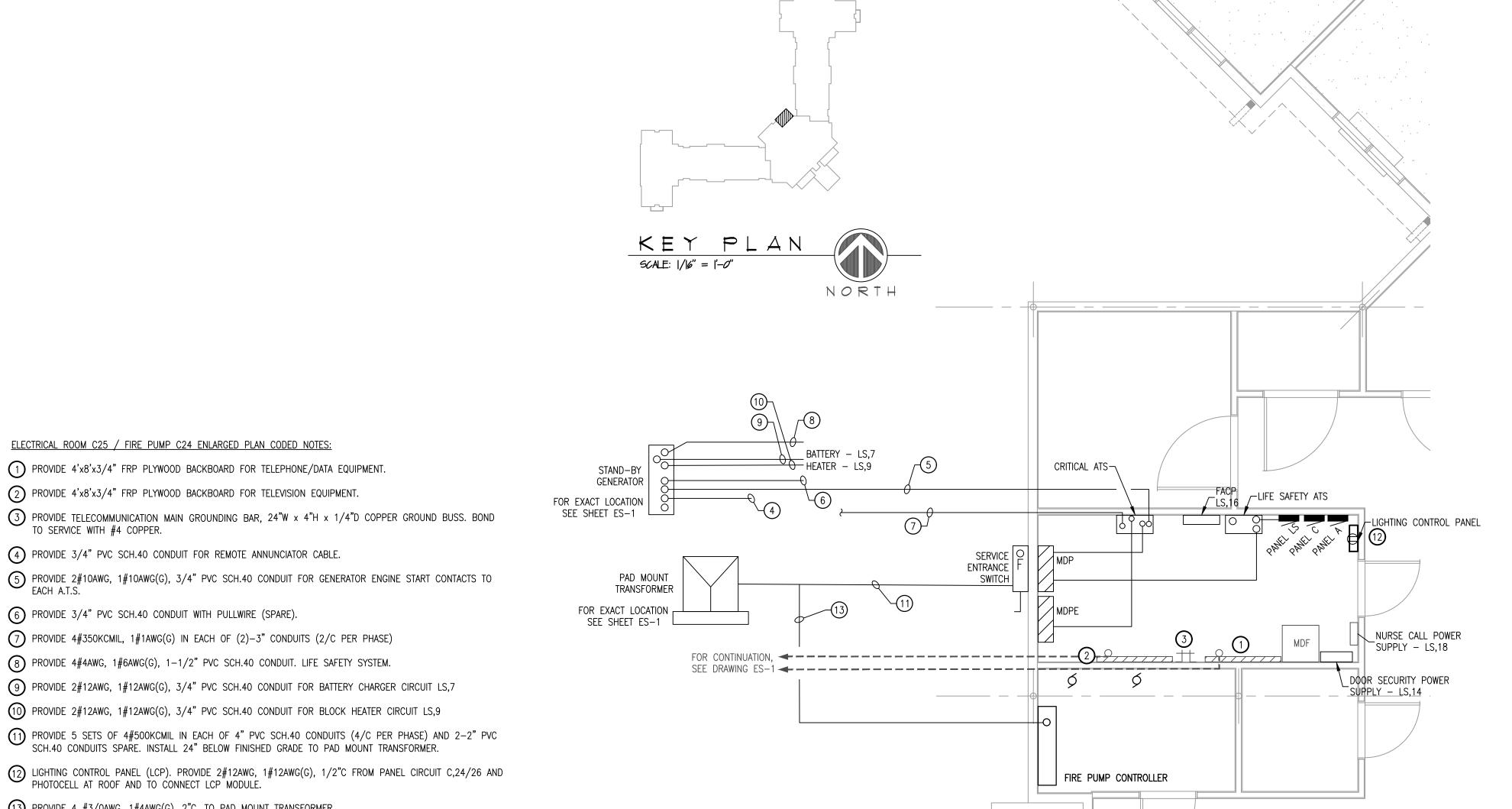
DSCA PROJECT NO. 23.046

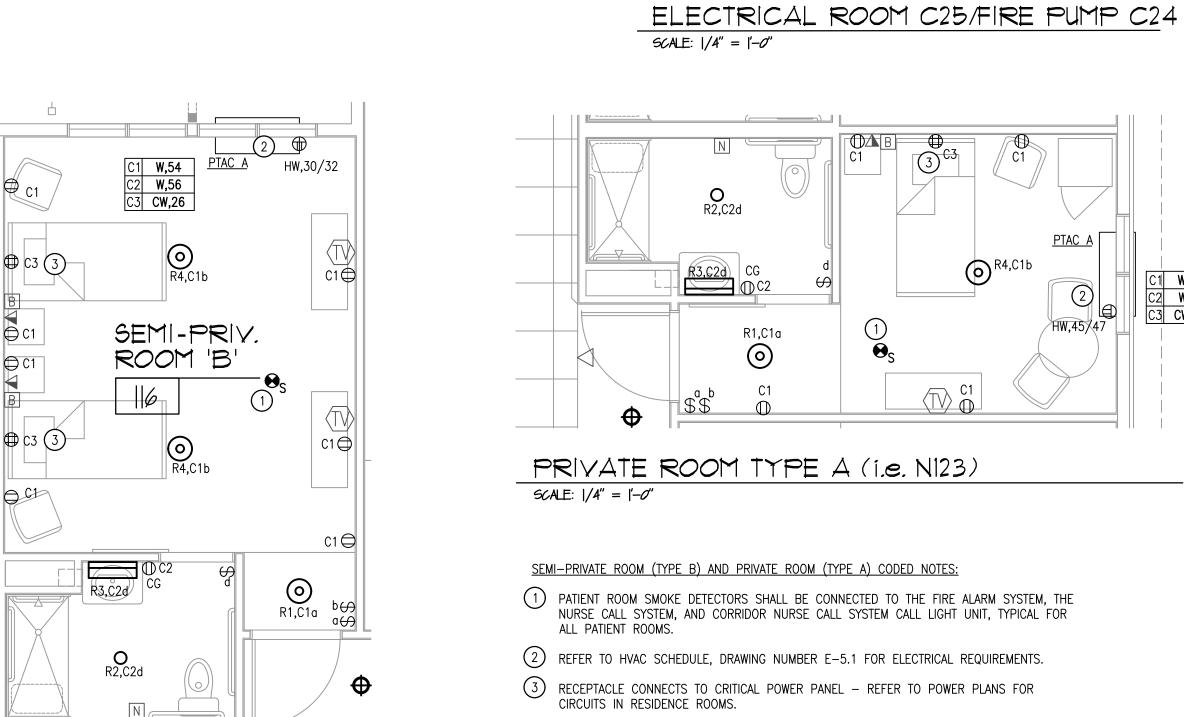
PRELIMINARY NOT FOR CONSTRUCTION



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PRICING SET: @3/11/24





**D** 

SEMI-PRIVATE ROOM TYPE B (i.e. 116)

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

ELECTRICAL ROOM C25 / FIRE PUMP C24 ENLARGED PLAN CODED NOTES:

4 PROVIDE 3/4" PVC SCH.40 CONDUIT FOR REMOTE ANNUNCIATOR CABLE.

13) PROVIDE 4 #3/0AWG, 1#4AWG(G), 2"C. TO PAD MOUNT TRANSFORMER.

6 PROVIDE 3/4" PVC SCH.40 CONDUIT WITH PULLWIRE (SPARE).

1) PROVIDE 4'x8'x3/4" FRP PLYWOOD BACKBOARD FOR TELEPHONE/DATA EQUIPMENT.

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

2 PROVIDE 4'x8'x3/4" FRP PLYWOOD BACKBOARD FOR TELEVISION EQUIPMENT.

C1 W,69 C2 W,71 C3 CW,39

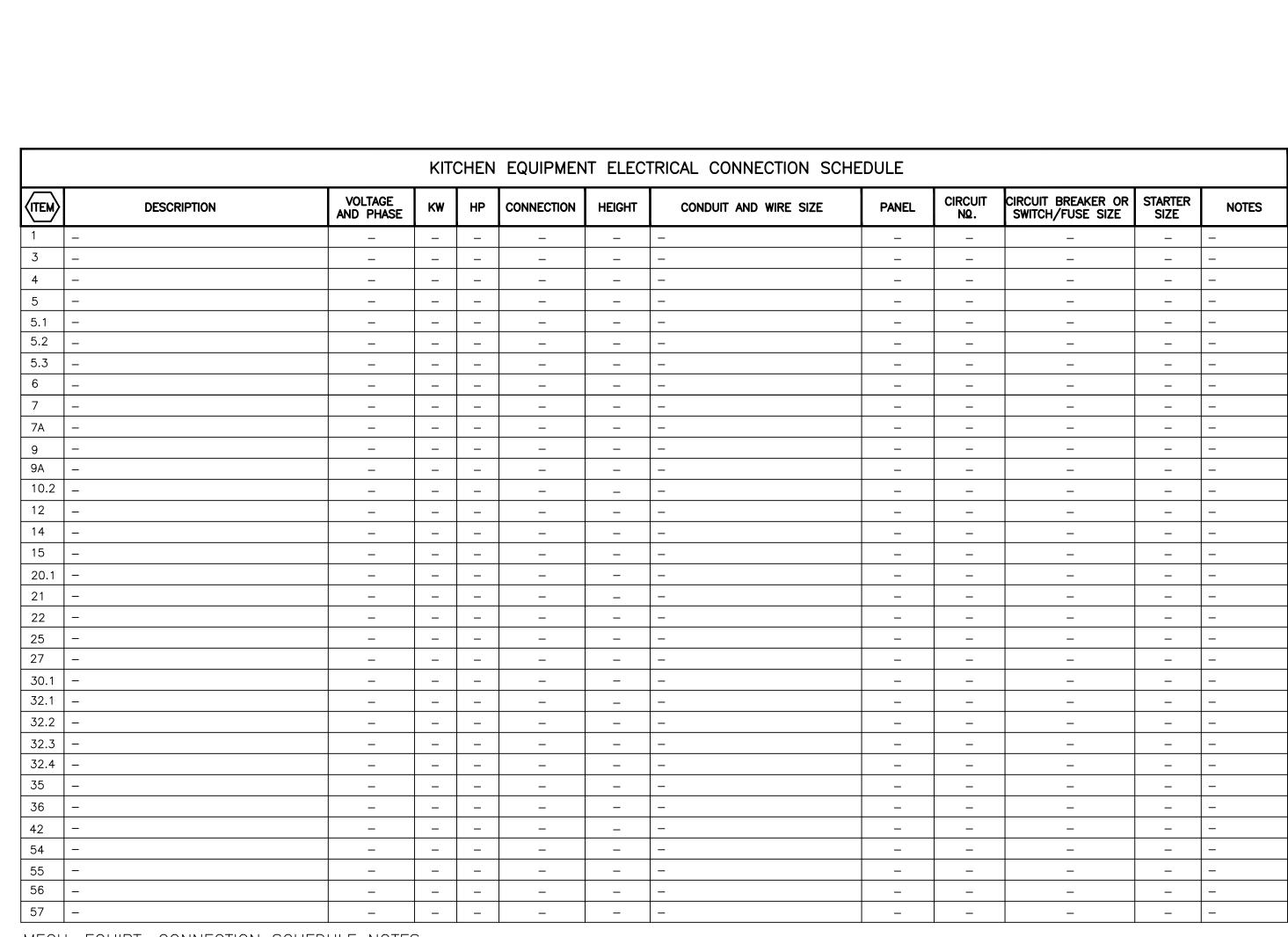
TYPICAL ROOMS & ELECTRIC ROOM SCALE: 1/8" = 1'-0"

DSCA PROJECT NO. 23.046

=4,

PRELIMINARY

NOT FOR CONSTRUCTION

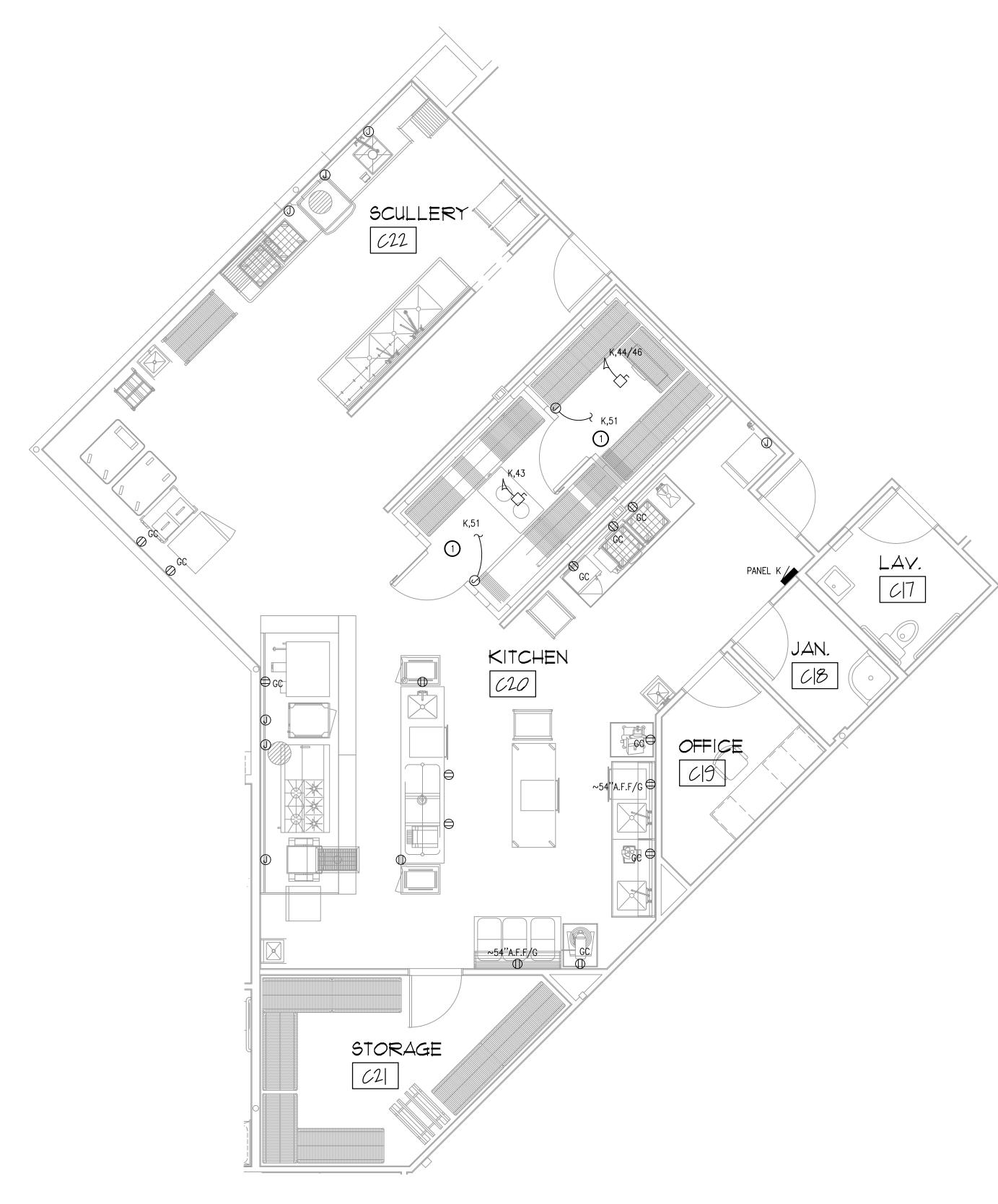


MECH. EQUIPT. CONNECTION SCHEDULE NOTES:

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:

- 1. ALL ROUGH-INS ARE INTENDED TO COME OUT OF THE FLOOR OR WALLS AND ARE SHOWN APPROXIMATELY WHERE THEY OCCUR IN THE
- 2. ALL CONDUIT TO BE PLACED IN THE WALLS RATHER THEN THROUGH THE FLOOR WHENEVER POSSIBLE.
- 3. ALL MEASUREMENTS TAKEN FROM FINISHED WALLS OR CENTERLINE OF COLUMNS.
- 4. ALL DIMENSIONS TAKEN FROM FINISHED FLOOR LINE MAY INCREASE TWO(2) INCHES OR DECREASE ONE(1) INCH WITH LEG ADJUSTMENT.
- 5. ALL MECHANICAL STUBBING IN CENTER OF FLOOR TO BE SIX(6) INCHES OR LESS TO CLEAR EQUIPMENT BASES, THEN BRANCH TO FINAL
- 6. E.C. TO PROVIDE ELECTRICAL SERVICE FOR AUTOMATIC FIRE EXTINGUISHER SYSTEM FROM ELECTRICAL PANELS TO VENTILATING HOOD AND TO 11. WHERE LOCAL CODES REQUIRE DISCONNECTS, E.C. TO LOCATE AND PROVIDE REQUIRED CLEARANCES. CHEMICAL TANK LOCATION.
- 7. 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.
- 8. THE ROUGH-INS SHOWN ARE FOR EQUIPMENT SUPPLIED BY FOODCRAFT EQUIPMENT CO. VERIFY WITH OWNER FOR ROUGH-IN NOT SUPPLIED BY FOODCRAFT EQUIPMENT CO.
- 9. SIZING OF ELECTRICAL PANELS TO BE DETERMINED BY E.C. OR ENGINEER
- 10. THE ROUGH-INS SHOWN ON THIS DRAWING ARE RQUIRED 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



ENLARGED KITCHEN POWER PLAN SCALE: 1/4'' = 1'-0''



## ENLARGED KITCHEN POWER PLAN CODED NOTES:

COOLER AND FREEZER: 120V/10 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 RACEWAY. LIGHT FIXTURES/LAMPS PROVIDED BY FOOD SERVICE EQUIPMENT SUPPLIER, INSTALLED AND CONNECTED BY E.C..

PRELIMINARY NOT FOR CONSTRUCTION

DSCA PROJECT NO.

23.046

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