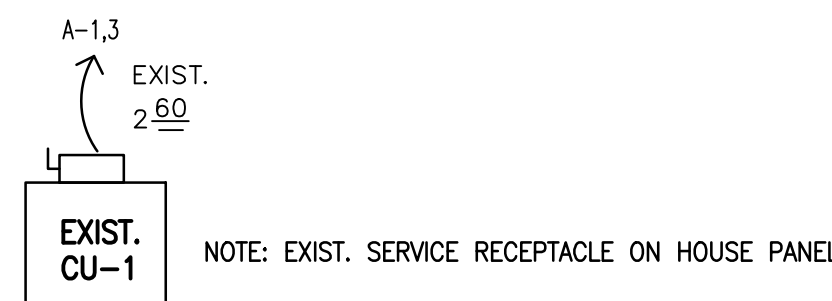


### EXIST. RELOCATED PNL "A"

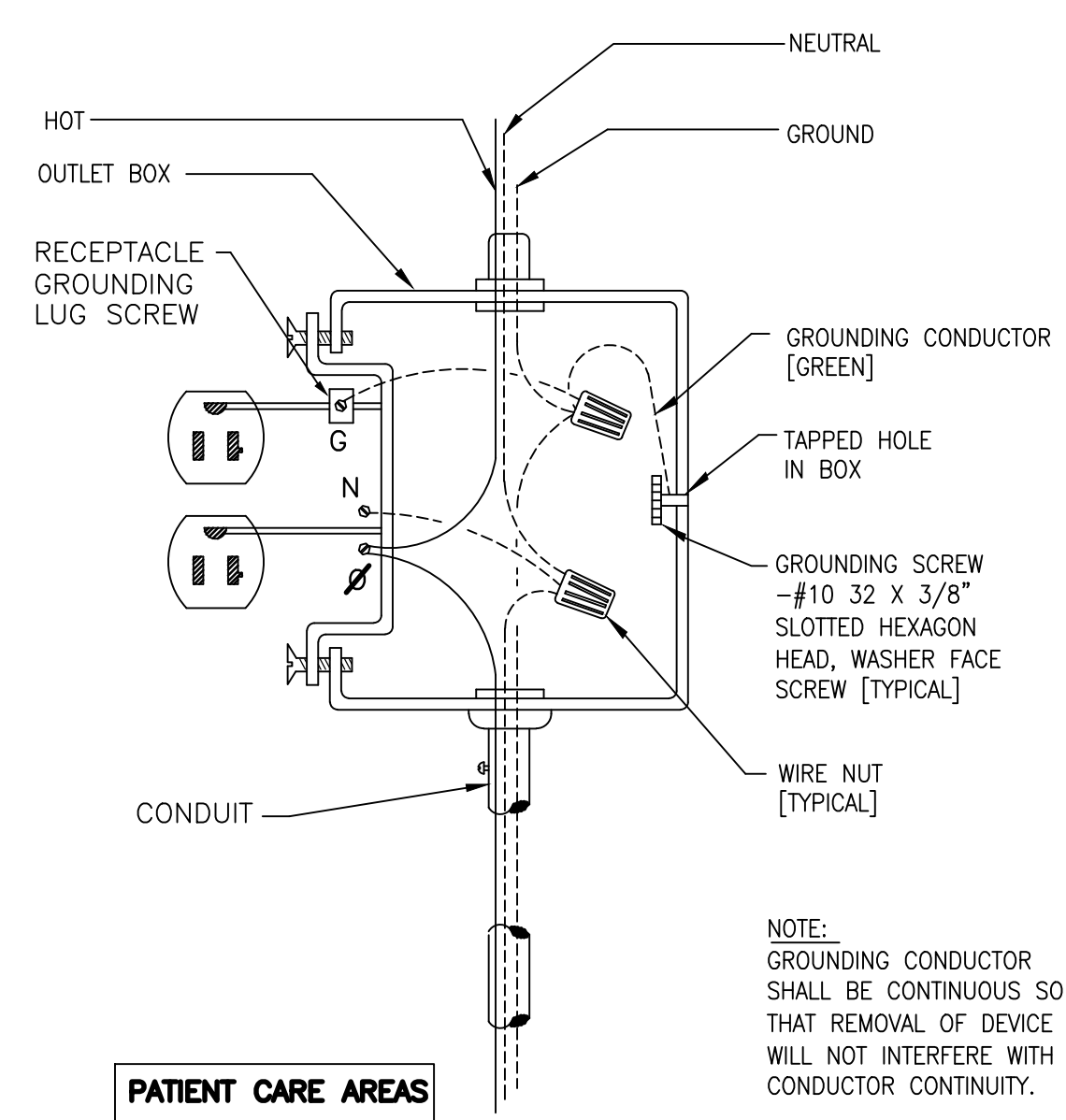
| BUS KVA |     |     | DESCRIPTION              | BRK TRP/PLS | WIRE/COND. NO. | CKT NO. | WIRE/COND. | BRK TRP/PLS | DESCRIPTION                 | BUS KVA |     |     |     |
|---------|-----|-----|--------------------------|-------------|----------------|---------|------------|-------------|-----------------------------|---------|-----|-----|-----|
| A       | B   | C   |                          |             |                |         |            |             |                             | A       | B   | C   |     |
| —       | —   | —   | EXIST. CU-1              | 40/2        | #8-3/4"        | 1       | #8-3/4"    | 30/3        | EXIST. AHU-1                | 2.4     | —   | —   |     |
| 1.5     | —   | —   | EMH                      | 20/2        | #12-3/4"       | 5       | —          | —           | CONDENSATE PUMP             | —       | —   | 2.4 |     |
| —       | 0.3 | —   | RECIRCULATING PUMP       | 20/1        | #12-1/2"       | 9       | —          | —           | REFRIG.-BREAK               | 0.3     | —   | —   |     |
| —       | —   | 0.6 | RECEPT. RM#113           | —           | —              | 11      | —          | —           | SMALL APPLANCE-BREAK        | —       | —   | 1.2 |     |
| 1.5     | —   | —   | COPIER                   | —           | —              | 13      | —          | —           | MICROWAVE                   | 1.0     | —   | —   |     |
| —       | 0.9 | —   | RECEPT. RM#101, 114, 118 | —           | —              | 15      | —          | —           | RECEPT.-EXAM #112, 113      | —       | 0.6 | —   |     |
| —       | —   | 0.6 | RECEPT.-TESTING ROOMS    | —           | —              | 17      | —          | —           | CHAIRS-BREAK                | —       | —   | 0.6 |     |
| —       | —   | 0.6 | RECEPT.-TESTING ROOMS    | —           | —              | 19      | —          | —           | CHAIRS-EXAM ROOMS           | 1.0     | —   | —   |     |
| —       | 0.7 | —   | RECEPT.-TEST & WORK-UP   | —           | —              | 21      | —          | —           | RECEPT.-EXAM #110           | —       | 0.6 | —   |     |
| —       | 0.7 | 1.0 | CHRS-WORK-UP ROOMS       | —           | —              | 23      | —          | —           | RECEPT.-OFFICE, HALL        | —       | —   | 0.7 |     |
| —       | 0.7 | —   | RECEPT.-WORK-UP          | —           | —              | 25      | —          | —           | RECEPT.-OFFICE, SUB-WAITING | 0.7     | —   | —   |     |
| —       | 0.6 | —   | RECEPT.-TECH             | —           | —              | 27      | —          | —           | RECEPT.-SUB-WAITING, HALL   | —       | 0.7 | —   |     |
| —       | —   | 0.4 | RECEPT.-TECH             | —           | —              | 29      | —          | —           | LIGHTING                    | —       | —   | 0.8 |     |
| —       | —   | —   | SPACE                    | —           | —              | 31      | —          | —           | SPACE                       | —       | —   | —   |     |
| —       | 0.4 | —   | DATA                     | 20/1        | #12-1/2"       | 33      | #12-1/2"   | 20/1        | LIGHTING                    | —       | —   | 0.8 |     |
| —       | —   | —   | SPACE                    | —           | —              | 35      | —          | —           | SPACE                       | —       | —   | —   |     |
| —       | —   | —   | SPACE                    | —           | —              | 37      | —          | —           | SPACE                       | —       | —   | —   |     |
| —       | —   | —   | SPACE                    | —           | —              | 39      | —          | —           | SPACE                       | —       | —   | —   |     |
| —       | —   | —   | SPACE                    | —           | —              | 41      | —          | —           | SPACE                       | —       | —   | —   |     |
| 4.3     | 2.9 | 4.1 | TOTAL                    | —           | —              | 41      | —          | —           | SPACE                       | TOTAL   | 5.4 | 6.6 | 5.7 |

TOTAL BUS KVA: A: 9.7 kVA, B: 9.5 kVA, C: 9.8 kVA  
 TOTAL CONNECTED LOAD: 29.0 kVA = 80.6 AMPS  
 TOTAL DEMAND LOAD (ADD 25% TO LIGHTING): 29.4 kVA = 81.7 AMPS

\* NON-CONCURRENT LESSER LOAD



### ROOF MOUNTED EQUIPMENT-EXIST. NTS



### GROUNDING RECEPTACLE DIAGRAM N.T.S.

### LEGEND

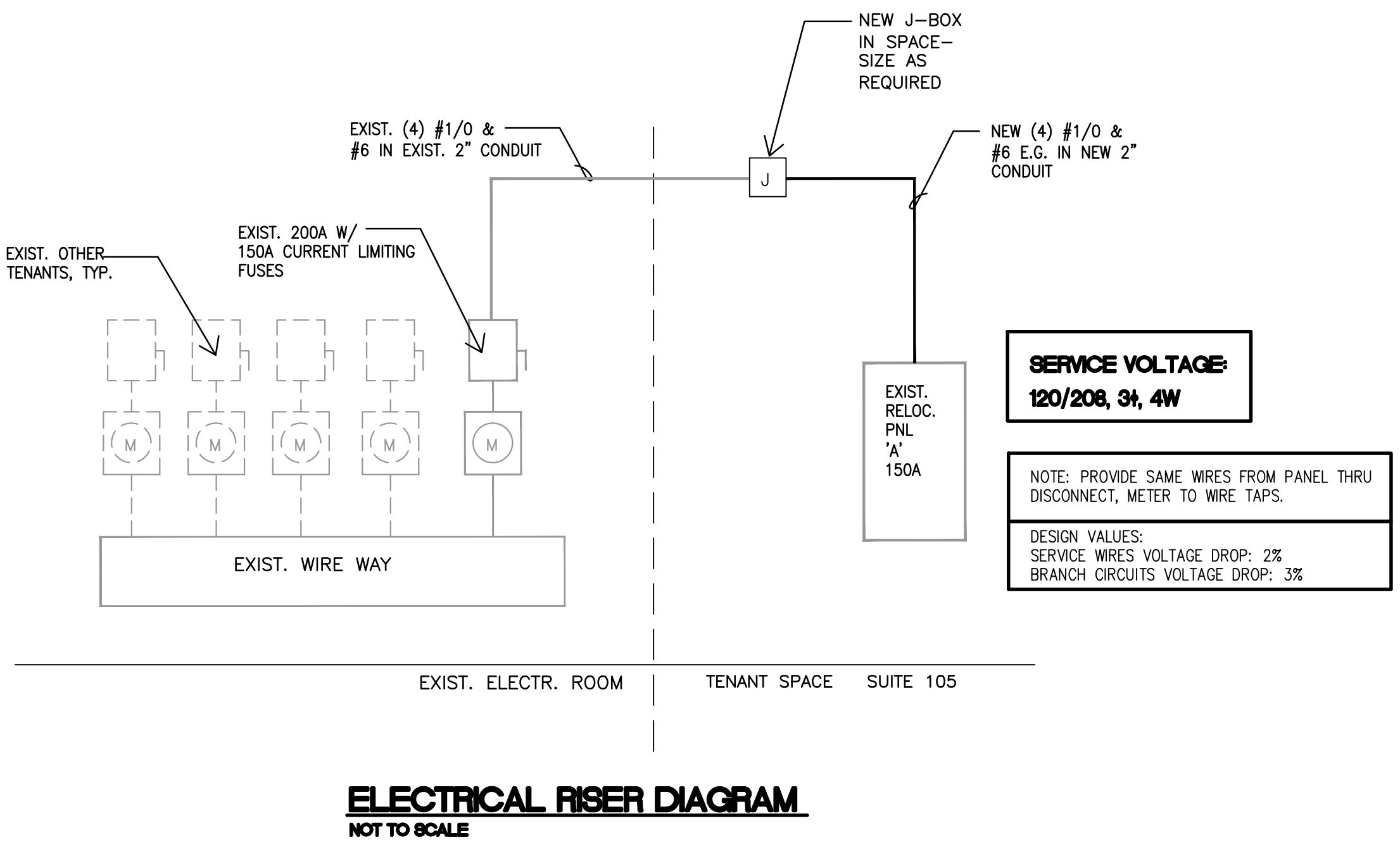
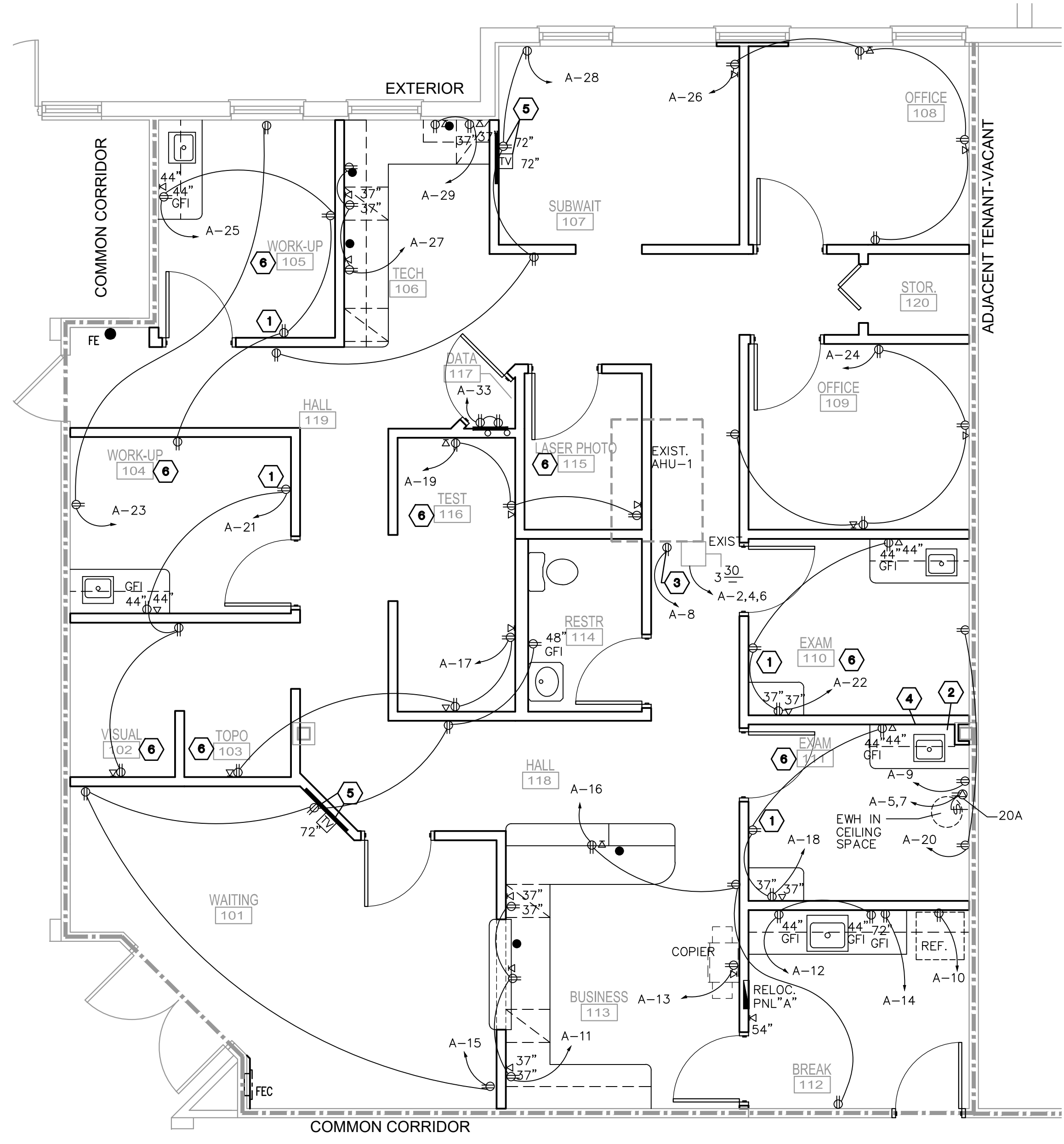
|  |   |
|--|---|
|  | DUPLEX RECEPTACLE AT 18" A.F.F. U.O.N.                  |
|  | DUPLEX RECEPTACLE SPLIT CIRCUIT OR AS INDICATED ON PLAN |
|  | QUAD RECEPTACLE AT 18" A.F.F. U.O.N.                    |
|  | 240/208 RECEPTACLE 30 AMP OR LARGER                     |
|  | 240/208V RECEPTACLE 20 AMP                              |
|  | SINGLE RECEPTACLE 20 AMP                                |
|  | FLOOR FLUSH MOUNTED DUPLEX RECEPTACLE                   |
|  | SWITCH  |
|  | THREE WAY SWITCH  |
|  | DIMMER SWITCH   |
|  | BUZZER W/ TRANSFORMER                                   |
|  | FLOOR MOUNTED DATA/PHONE RECEPTACLE                     |
|  | DATA/PHONE RECEPTACLE AT 18" A.F.F. U.O.N.              |
|  | FAN MOTOR   |
|  | POINT OF SERVICE  |
|  | EMPTY CONDUIT FOR DATA                                  |
|  | DISCONNECT SWITCH                                       |
|  | IN CEILING WIRELESS ACCESS POINT                        |
|  | GENERATOR RECEPTACLE                                    |
|  | TV LOCATION (POWER & DATA)                              |

### GENERAL NOTES

- DO NOT INSTALL POWER OR DATA BOXES BACK-TO-BACK ON RATED WALLS
- CONTRACTOR MUST OBTAIN APPROVAL OF ALL RECEPTACLES AND PHONE/DATA OUTLET LOCATIONS BEFORE ROUGH-IN
- NEW BREAKERS SHALL MATCH AIC RATINGS OF PANEL

### ELECTRICAL SPECIFICATIONS

- A. GENERAL PROVISIONS**
- THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER FUNCTIONING SYSTEMS AS SHOWN ON THE DRAWINGS.
  - ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
  - ALL EQUIPMENT AND MATERIALS SHALL BE NEW OR EXISTING IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI, UL, ETC...
  - THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCES.
  - THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS. FIELD VERIFICATIONS OF DIMENSIONS IS DIRECTED.
  - SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES.
  - UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
  - ALL WORKS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER FROM AUTHORITIES HAVING JURISDICTION.
  - CIRCUITS ON THE PLANS ARE TO DETERMINE LOAD AND PANEL SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING TO SUIT JOB CONDITIONS, AND BALANCE THE CONNECTED LOAD.
  - FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS CALLED FOR ON THESE PLANS. FIXTURES SHALL NOT BE SUPPORTED BY THE CEILING GRID BUT BY GUY WIRES FROM ABOVE.
  - CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE, AND AMP RATING BEFORE CONNECTION TO CIRCUITS.
  - THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250 OF THE NEC. ALL RACEWAYS TO HAVE EQUIPMENT GROUND CONDUCTOR, AND WHEN CROSSING BUILDING EXPANSION JOINTS, EXPANSION FITTING WITH BONDING JUMPERS SHALL BE USED.
- B. RACEWAYS**
- ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS. HOSPITAL GRADE ARMORED CABLE PROVIDING REDUNDANT GROUND IS ALLOWED.
  - MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE.
  - USE FLEXIBLE CONDUIT FOR SHORT FINAL CONNECTIONS TO VIBRATION EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS.
  - EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.
  - DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
  - PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOOR AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300-21 OF THE N.E.C.
  - PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE N.E.C.
  - PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
  - PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE. VERIFY NUMBER AND SIZES OF BREAKERS.
- C. CONDUCTORS**
- ALL WIRING SHALL BE COPPER.
  - CONDUCTORS SHALL BE RATED 600V, WITH TYPE THHN INSULATION.
  - WIRES SIZES #10 AWG AND SMALLER SHALL BE SOLID CONDUCTOR WITH TYPE THHN INSULATION. WIRES SIZES STRANDED WITH TYPE THHN INSULATION. CONTRACTOR TO USE HIS BEST DISCRETION IN THE INSTALLATION, LOCAL CODES SUPERSEDE.
  - MINIMUM CONDUCTOR SIZE SHALL BE #12. CONTROL WIRING MAY BE SMALLER.
- D. LIGHTING PANELS**
- PROVIDE LIGHTING AND RECEPTACLE PANEL AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT 200T-ON CIRCUIT BREAKERS TYPE, PANELBOARDS AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
  - UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED AT 6" A.F.F. TO TOP.
  - ALL PANELS SHALL HAVE TYPED CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
  - PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANELS SCHEDULES. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
  - ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED.
- E. SAFETY SWITCHES**
- ALL NEW SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE "HD", FUSIBLE OR NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON THE PLANS. LUGS SHALL BE U.L. LISTED FOR CU-AL.
  - ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 3R.
- F. FUSES**
- ALL NEW FUSES SHALL HAVE A 200,000 AMP RMS SYMMETRICAL INTERRUPTING RATING UNLESS OTHERWISE NOTED. LOWER RATING MAY BE USED ONLY UPON POWER COMPANY ISSUING A LETTER WITH FAULT CURRENT ANALYSIS JUSTIFYING LOWER RATING. A COPY OF A LETTER MUST BE FORWARDED TO THE ARCHITECT OF RECORD.
  - NEW FUSES RATED 0 TO 800 AMPS SHALL BE AS FOLLOW:
    - a) CIRCUIT BREAKER PANEL PROTECTION - U.L. CLASS RK-1, DUAL ELEMENT (BUSMANN "LOW PEAK" OR EQUAL)
    - b) MOTOR CIRCUIT PROTECTION - U.L. CLASS RK-5, DUAL ELEMENT (BUSMANN "FUSETRON" OR EQUAL)
  - NEW FUSES RATED 601 AMPS OR LARGER SHALL BE U.L. CLASS L TIME DELAY (BUSMANN "HI-CAP" OR EQUAL).

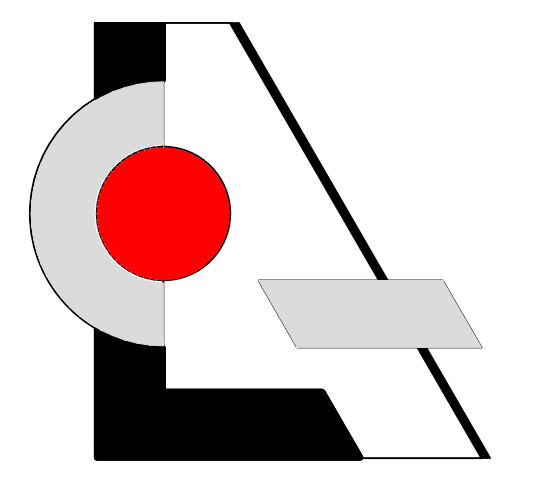


- ### KEYNOTES
- EXACT POSITION (HEIGHT, LOCATION) TO BE CONSULTED WITH TENANT IN FIELD.
  - HEAVY DUTY 2 POLE 20A SWITCH FOR WATER HEATER (ABOVE CEILING)
  - EXIST. RECEPTACLE FOR CONDENSATE PUMP. IF NOT EXISTING, PROVIDE.
  - RECEPTACLE FOR RECIRCULATING PUMP (ABOVE CEILING)
  - USE CLOCK TYPE RECEPTACLE.
  - PATIENT CARE AREA.

ALL RECEPTACLES, SWITCHES AND WIRING IN PATIENT CARE AREAS SHALL BE HOSPITAL GRADE. ALL WIRING IN PATIENT CARE AREAS INCLUDING WIRING OF EQUIPMENT SHALL COMPLY WITH NEC (INSULATED REDUNDANT GROUND & GROUNDING RACEWAY)

PROVIDE EQUIPMENT GROUNDING CONDUCTORS PER NEC  
 PROVIDE PANEL CIRCUIT BREAKERS MATCHING PANEL A/C RATING  
 SEE SHEET T.1 FOR PROJECT CLOSE-OUT NOTES

DESIGN VALUES:  
 SERVICE WIRES VOLTAGE DROP: 2%  
 BRANCH CIRCUITS VOLTAGE DROP: 3%



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### POWER PLAN NOTES DIAGRAMS