

LIGHTING PLAN LEGEND

- 2x4 DROP-IN FLUORESCENT FIXTURE
- 2x2 DROP-IN FLUORESCENT FIXTURE
- HI-HAT
- EXIT SIGN W/ EMERG. OPER.
- EMERGENCY BATTERY PACK
- FIXTURE W/ EMERG. BATTERY BACKUP & RELAY
- EXHAUST FAN

LIGHTING PLAN NOTES

- ALL EMERGENCY & EXIT LIGHTS SHALL BE WIRED AHEAD OF SWITCHES AND OCCUPANCY SENSORS.
- INSTALL LIGHTING CONTACTORS WHERE REQUIRED.
- MOUNTING & DIRECTIONAL ARROWS FOR EXIT SIGNS - AS REQUIRED

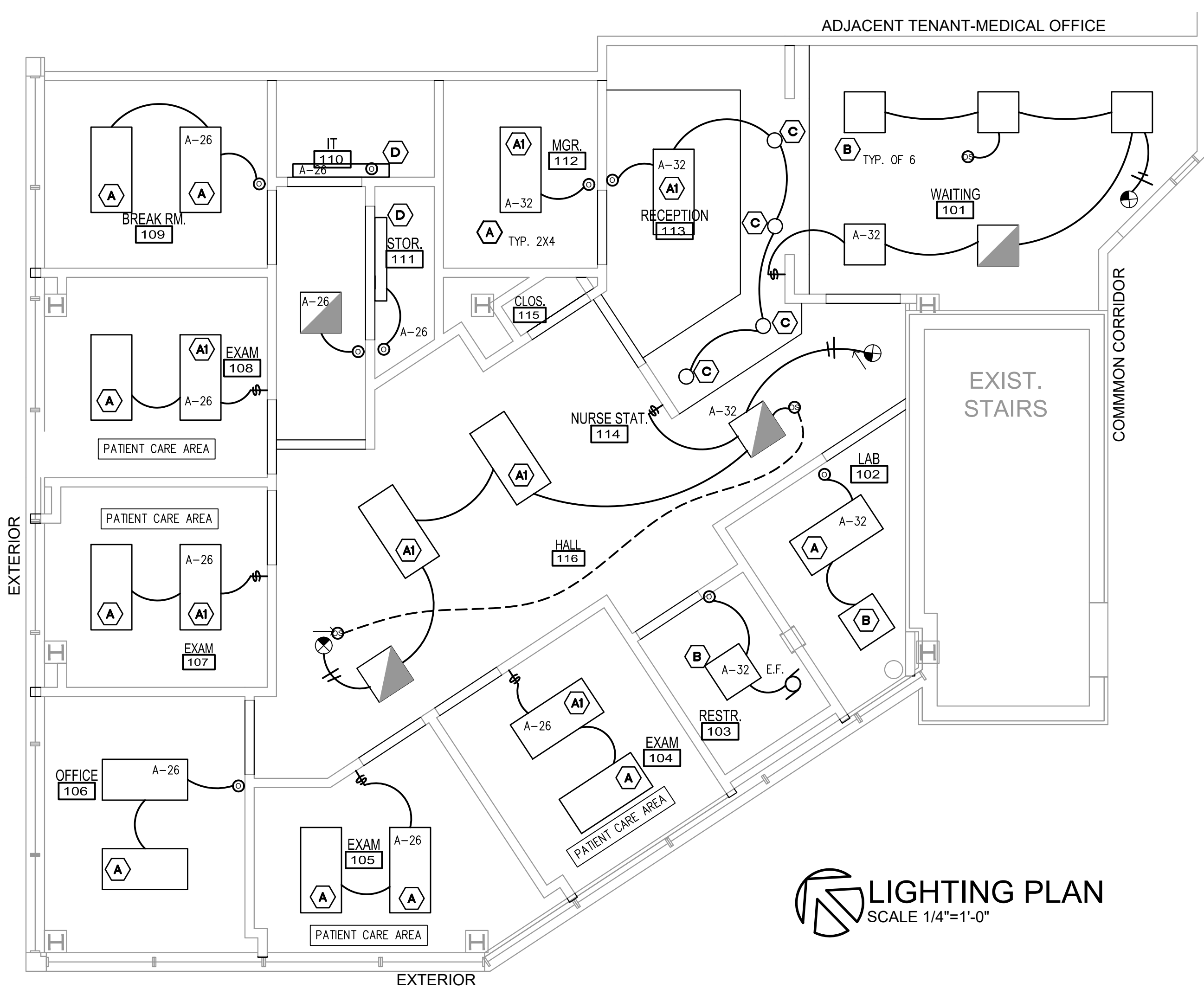
ALL RECEPTACLES IN PATIENT CARE AREAS SHALL BE HOSPITAL GRADE. ALL WIRING IN PATIENT CARE AREAS INCLUDING WIRING OF EQUIPMENT SHALL COMPLY WITH NEC (INSULATED REDUNDANT GROUND & GROUNDING RACEWAY)

OCCUPANCY SENSOR SCHEDULE

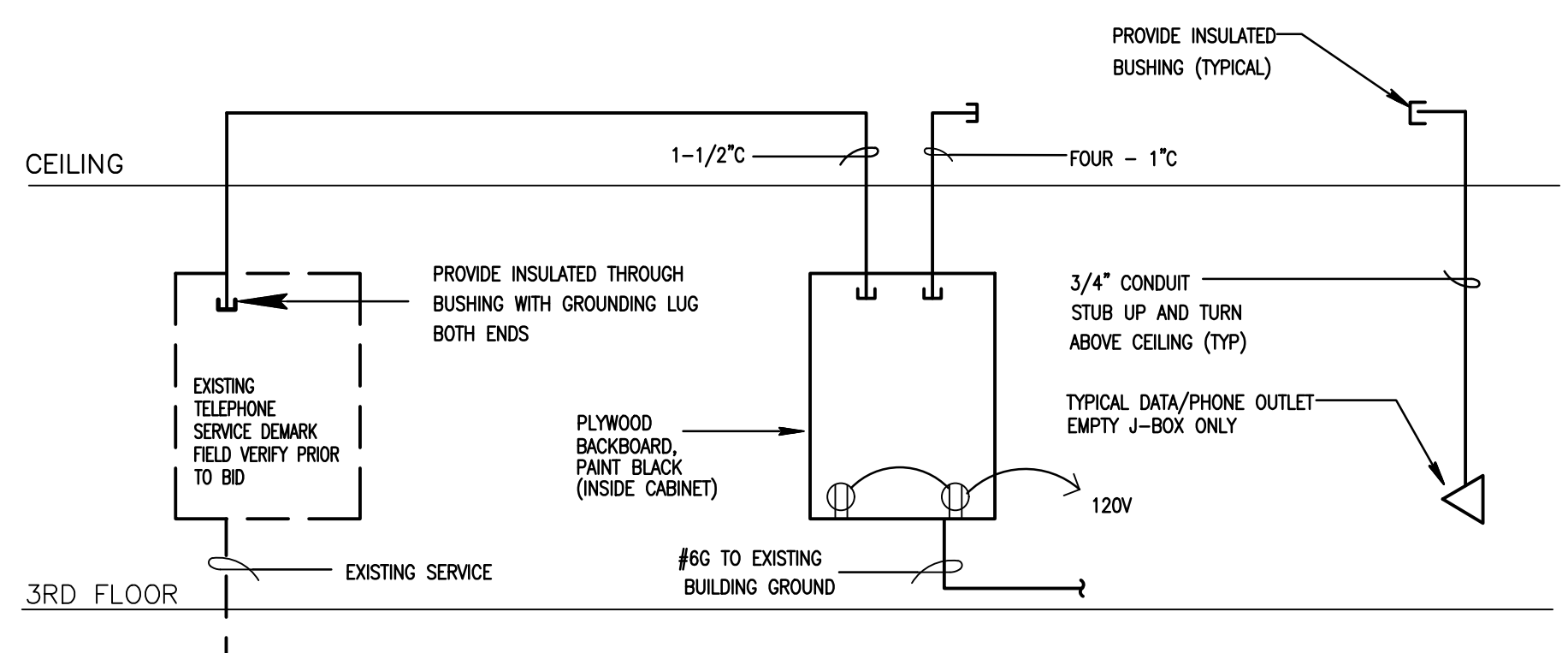
- OCCUPANCY SENSOR INTEGRATED W/SWITCH SET TO 30 MIN. MAX. SENSOR SWITCH WSD PDT MULTI-TECHNOLOGY
- OCCUPANCY SENSOR TO CONTROL ALL LIGHTS IN THE ROOM (UNLESS OTHERWISE INDICATED) SET TO 30 MIN. MAX. SENSOR SWITCH CM PDT 9 MULTI-TECHNOLOGY USE SENSOR SWITCH CM PDT 10 FOR EXTENDED RANGE. PDT 10 NOTED ON PLAN

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 REGULATING 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.
 - 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 JOB THROUGH.
 - 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 CONTINUE GROUND IS ALLOWED. ALL WIRING FOR LIGHTING AND POWER IN PATIENT CARE AREAS SHALL HAVE REDUNDANT GROUND PER NEC
 - MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE.
 - USE FLEXIBLE CONDUIT FOR 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 NEC.
 - PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE NEC.
 - 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 AND SMALLER SHALL BE SOLID CONDUCTOR WITH TYPE THHN INSULATION. WIRES SIZES #8 AND LARGER SHALL BE 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, CIRCUIT BREAKERS TYPE, LOAD CENTER DESIGN AND SHALL BEAR THE UL LABEL AS WELL AS MEET ALL APPLICABLE AREA REQUIREMENTS.
 - UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED AT 6' AFF. TO TOP.
 - ALL PANELS SHALL HAVE TYPEWRITTEN 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.
 - 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 STANDARD DUTY TYPE "HD", FUSIBLE OR NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON THE PLANS. LUGS SHALL BE UL 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 600 AMPS SHALL BE AS FOLLOWS:
 - a) CIRCUIT BREAKER PANEL PROTECTION - UL CLASS RK-1, DUAL ELEMENT (BUSSMANN "LDM PEAK" OR EQUAL)
 - b) MOTOR CIRCUIT PROTECTION - UL CLASS RK-5, DUAL ELEMENT (BUSSMANN "FUSETRON" OR EQUAL)
 - NEW FUSES RATED 601 AMPS OR LARGER SHALL BE UL CLASS L TIME DELAY (BUSSMANN "HI-CAP" OR EQUAL).



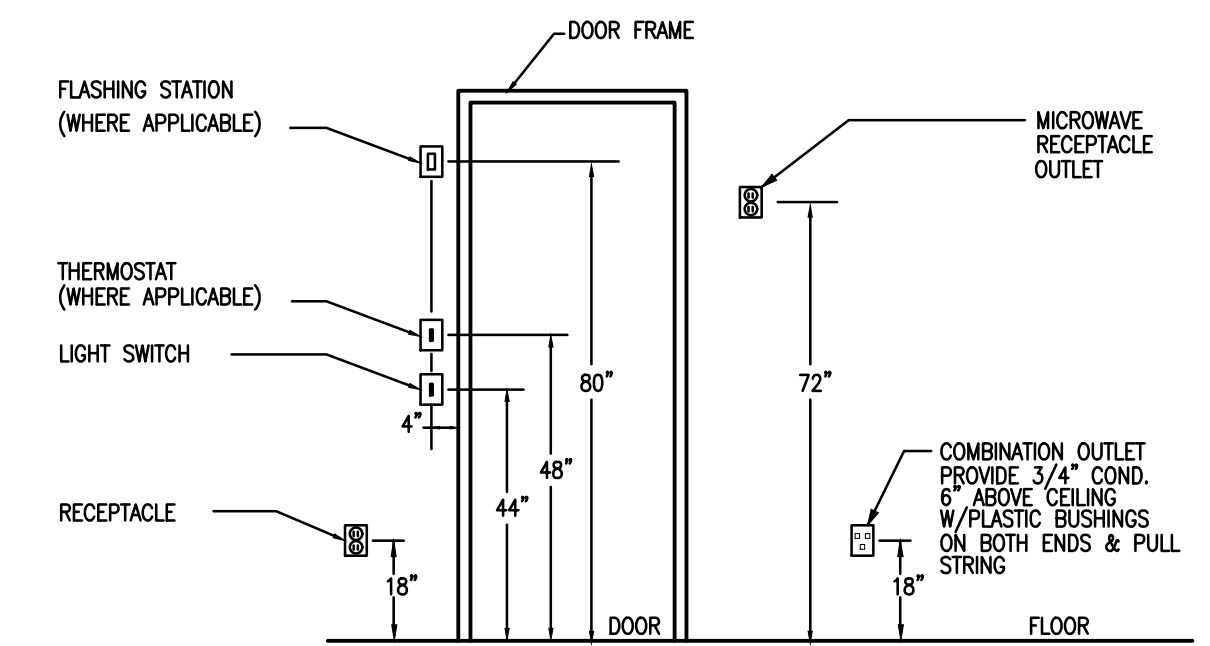
LIGHTING PLAN
SCALE 1/4"=1'-0"



- NOTES**
- TELEPHONE AND DATA WIRING SHALL BE UL LISTED FOR USE ON ENVIRONMENTAL AIR SPACES IN CONFORMANCE WITH NEC ARTICLE 300-22(C) - UNDER SEPARATE PERMIT
 - COORDINATE WORK WITH TELEPHONE CONTRACTOR/SUPPLIER.
 - BACKBOARD LENGTH PER PHONE CONTRACTOR

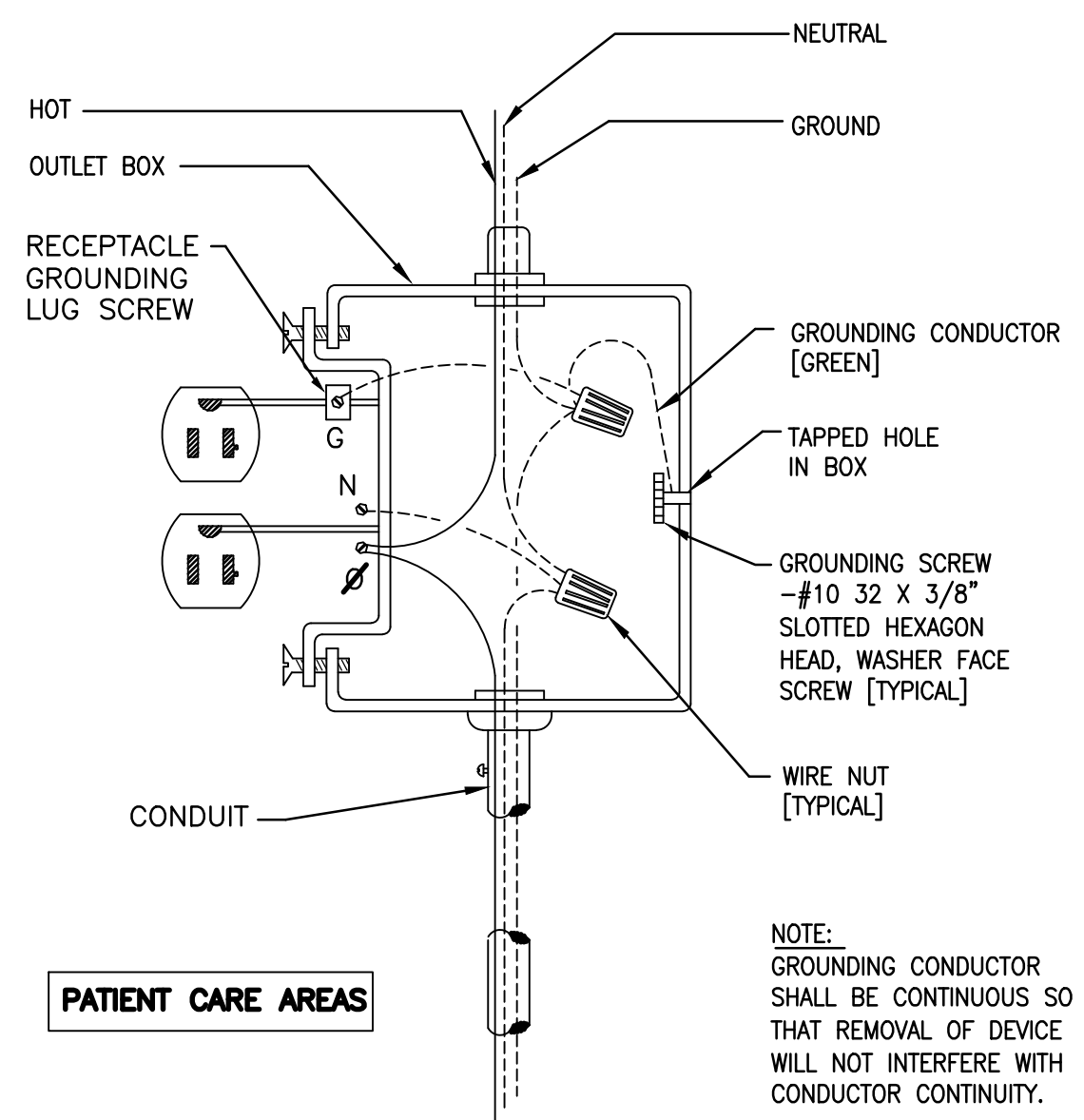
TELEPHONE/DATA RISER DIAGRAM

NOT TO SCALE



DEVICE INSTALLATION DIAGRAM

NOT TO SCALE



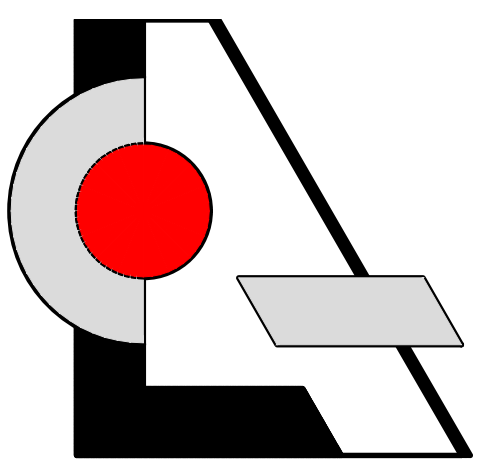
NOTE:
GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

GROUNDING RECEPTACLE DIAGRAM

N.T.S.

LIGHTING FIXTURE SCHEDULE							
SYMBOL	TYPE	MOUNT	LAMP	VOLT	MANUFACTURER	CATALOG	REMARKS
A	2X4 LAY IN LED	GRID	LED 46.2W	MVOLT	LITHONIA	2FSL4-48L-MVOLT E21-LP840	
A1	2X4 LAY IN LED	GRID	LED 52.4W	MVOLT	LITHONIA	2FSL4-60L-MVOLT E21-LP840	
B	2X2 LAY IN LED	GRID	LED 34.7W	MVOLT	LITHONIA	2FSL2-33L-MVOLT E21-LP840	
C	4" HI-HAT	RECESSED	LED 20W	120	ELITE/MAXILUME	HH4-LED-1200L-DIM10-120 MD-40K-85+4510-CL-WH-FR	
D	UTILITY	SURFACE	LED 17.5W	MVOLT	LITHONIA	WL2-18L-E21-LP840 NESPDT7	
	EMERGENCY LIGHT	SURFACE	1.44W LED		LITHONIA	ELM2-1/2-EL	②
	EXIT LIGHT	SURFACE	3.8W LED		DUAL LITE	EDGR-1-R-EL	① ② GREEN

- PROVIDE SINGLE OR DUAL FACE, WALL OR CEILING MOUNT, AS SHOWN ON PLANS. CONNECT FIXTURES TO UNSWITCHED HOT LEG OF CIRCUIT.
- PROVIDE BATTERY/INVERTER BACKUP FOR 90 MINUTES IN ACCORDANCE WITH NFPA REQUIREMENTS. CONNECT FIXTURES TO UNSWITCHED HOT LEG OF CIRCUIT, PROVIDE MULTI-TAP BALLAST. ELECTRICAL CONTRACTOR SHALL ORDER FIXTURES WITHIN 5 DAYS OF BEING AWARDED PROJECT PROGRAM START BALLASTS SHALL BE ORDERED FOR ALL FIXTURES ON OCCUPANCY SENSORS ALL COLOR TEMPERATURES TO BE IN 41K RANGE



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REVISIONS / DATE

**Interior Improvement for
Prospective Doctors Suite**
 9960 Central Park Boulevard, Suite 375
 Boca Raton, FL 33428

LESLAW A. CZACZYK AIA

AR 00015391
PROJ. NO. 16209
DESIGNED BY LAC
DRAWN BY AAA
DATE 10/14/16
SCALE AS SHOWN

LIGHTING PLAN